ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_004

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

SUBMITTAL TO:
Pamela Moss
SHAW E&I
7604 Technology Way, Suite 300
Denver, CO 80237

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Sonya Gordon
Tel (615)345-1115
Fax (866)417-0548
Email: sgordon@empirlabs.com

Original Report Date: March 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 640

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

Table of Contents

#	Description	Page No.
1	Cover Page	1
2	Table of Contents	2
3	Case Narrative	3
4	Sample Receipt Information Chain of Custody Forms Sample Receipt Confirmations WorkOrder Summary Sample Delivery Group (SDG) Sheets	10
5	Data for SW8260B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	48
6	Data for SW8270C PAH Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	279
7	Data for SW8015B GRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	324
8	Data for SW8015B DRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	375
9	Data for SW8011 EDB Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	426
10	Data for SW6010B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	488
11	Data for Wet Chemistry Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	557

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

As per the client's request, PAH by SW8270C was added for samples GW0036 and GW0037. CoC indicates sample GW0039-R to be analyzed for PAH by SW8310 but as per client, sample should be analyzed by SW8270C.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The surrogate Dibromofluoromethane exceeded criteria with a positive bias in sample 1102174-09.

The method blanks 1B19002-BLK1, 1B21012-BLK1, 1B22009, and 1B24021-BLK1 have positive results for Hexachlorobutadiene. The method blank 1B17009-BLK1 has

positive results for Acetone and Hexachlorobutadiene.

The matrix spikes associated to sample 1102166-01 exceeded criteria with a positive bias for Bromodichloromethane, Dichlorodifluoromethane, 1,2-Dichloroethane, 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, and Trichlorofluoromethane and with a negative bias for Toluene.

The initial calibration verification 1B04204-ICV1 exceeded criteria with a positive bias for Dichlorodifluoromethane.

The batch spikes associated to batches 1B17009, 1B19002, and 1B22009 exceeded criteria with a positive bias for Bromodichloromethane, Dichlorodifluoromethane, and 1,1,1,2-Tetrachloroethane. The batch spikes associated to batch 1B18011 exceeded criteria with a positive bias for Bromodichloromethane, Bromoform, and 1,2-Dichloroethane. The batch spikesre associated to batch 1B21012 exceeded relative percent difference criteria for Bromomethane. The batch spike associated to batch 1B23016 exceeded criteria with a positive bias for Bromodichloromethane, Bromoform, and 1,2-Dichloroethane. The batch spikes associated to batch 1B24021 exceeded criteria with a positive bias for Bromofrom and exceeded criteria with a negative bias for Chloroethane, Chloromethane, Dichlorodifluoromethane, and Vinyl Chloride. Due to a standard issue with the gas standard, the gas compounds exceeded criteria with a low bias. A new standard was prepared and analyzed the next day with all criteria in control. The batch spike duplicate 1B18011-BSD1 was analyzed 12 hours 14 minutes after the associated tune standard. The batch spike duplicate 1B21012-BSD1 was analyzed 12 hours 8 minutes after the associated tune standard. The batch spike duplicate 1B23016-BSD1 was analyzed 12 hours 3 minutes after the associated tune standard.

The continuing calibration verifications exceeded criteria in 1B05006-CCV1 with a positive bias for Bromodichloromethane, Carbon Tetrachloride, Dichlorodifluoromethane, 1,11,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, and Trichlorofluoromethane and with a negative bias for Bromomethane, in 1B05201-CCV1 with a positive bias for Acetone, Bromodichloromethane, 2-Butanone, Dichlorodifluoromethane, 4-Methyl-2-pentanone, and 1,1,1,2-Tetrachloroethane and with a negative bias for Bromomethane, in 1B05303-CCV1 with a positive bias for Bromoform, Carbon Tetrachloride, 1,,2-Dichloroethane, 2,2-Dichloropropane, Hexachlorobutadiene, 1,1,1-Tricloroethane, and Trichlorofluoromethane, in 1B05312-CCV1 with a positive bias for Acetone and 4-Methyl-2-pentanone, in 1B05401-CCV1 with a positive bias for Acetone, Bromodichloromethane, 2-Butanone, Carbon Tetrachloride, Dichlorodifluoromethane, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, and Trichlorofluoromethane and with a negative bias for Bromomethane, in 1B05514-CCV1 with a positive bias for Acetone, Bromodichloromethane, Bromoform, 2-Butanone, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane, Dichorodifluoromethane, 1,2-Dichloroethane, 2,2-Dichloropropane, 1,1-Dichloropropene, Cis-1,3-Dichloropropene, Hexachlorobutadiene, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane, in 1B05611-CCV1 with a positive bias for Acetone, Bromoform,

2-Butanone, Carbon Tetrachloride, 1,2-Dichloroethane, Hexachlorobutadiene, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane, and in 1B05612-CCV1 with a positive bias for Acetone, 2-Butanone, Carbon Tetrachloride, Hexachlorobutadiene, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C PAH:
Samples 1102174-05 and -07 were requested for extraction by the client 8 days after sampling with an EPA recommended holding time of 7 days.

The continuing calibration verifications 1B05614-CCV1 and 1B05615-CCV1 exceeded criteria with a positive bias for Benzo(a)anthracene, Chrysene, and Terphenyl-d14.

The method blank 1B18006-BLK1 has positive results for 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
The surrogate Bromofluorobenzene exceeded criteria with a positive bias in 1B22015-MS1 and –MSD1.

The matrix spikes associated to sample 1102166-01 exceeded criteria for Gasoline Range Organics; however, the parent sample concentration was greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B DRO:
The matrix spikes associated to sample 1102166-01 exceeded criteria for Diesel Range Organics; however, the parent sample concentration was greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011 EDB:
The matrix spikes associated to sample 1102166-01 exceeded criteria for 1,2-Dibromomethane; however, the parent sample concentration was greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have

been applied.

SW6010B:
Samples 1102166-03 and 1102174-09 are qualified with an M for Lead to indicate that the DL was raised due to interference.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Wet Chemistry:
Due to an instrument malfunction, samples 1102174-05, -07, and -09 were analyzed after the EPA recommended holding time for Nitrate as N. Client was notified and requested that the samples be reported with the proper qualifiers.

Samples 1102135-01, -03, -05, 1102141-01, 1102166-01, and -03 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

The matrix spikes associated to sample 1102166-01 exceeded criteria with a negative bias for Sulfide. The matrix spike duplicate associated to sample 1102166-01 exceeded criteria with a negative bias for Alkalinity, Total (as CACO3).

The continuing calibration blank 1B04712-CCB3 has a positive result for Chloride.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

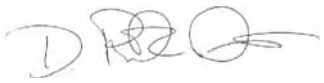
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW013

11

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

Samples Shipment Date: 14 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182200

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

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable __ Skin Irritant __ Poison B __ Radiological __ Unknown __

Sample Disposal:
Return to Client __ Disposal by Lab X Archive __ (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental — Date: 2/14/11 Time: 1830
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 2-15-11 Time: 08:45

1.0°C

Comments:

1102135

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

KIRTLAND_004 Summ Package

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW013

12

1/02/13

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-03	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-05	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06	~~GW0021~~	~~KAFB10619-WG-GW0021-REG~~	~~14 FEB 2011~~	~~11:17~~	~~250 mL HDPE~~	~~1~~	~~HNO3<pH 2~~	~~Dissolved Iron and Manganese by SW846 6010C~~			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-07	GW8013-TB	FIELDQC-BW-GW8013-TB-TB	14 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102135 Number of Coolers: 1 of 1

Client: Shaw E+I INC. Project: Kirtland AFB

Date/Time Received: 2-15-11 08:45 Date cooler(s) opened: 2-15-11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered EL Courier Other: _____

If applicable, enter airbill number here: 2200

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 2-14-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.3 °C Correction Factor: -0.3 °C Final Value: 1.0 °C

Dates samples were logged-in: 2-15-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW014

14

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

Samples Shipment Date: 15 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681622

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

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions: LAB TO FILTER 0.45 UM DISS METALS FRACTION FOR GW8002-RB

Possible Hazard Indentification: Non-hazard X Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal: Return to Client ☐ Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2-15-11 Time: 1730
1. Received By (Signature/Affiliation) [signature] Date: 2-16-11 Time: 0830
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished 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	CID	Condition On Receipt
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW014

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0039-R	ST106-VA2-WG-GW0039-R-REG	15 FEB 2011	10:30	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8310			N		
GW8002-AB	FIELDQC-BW-GW8002-AB-AB	15 FEB 2011	10:30	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW8014-TB	FIELDQC-BW-GW8014-TB-TB	15 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: _____ Number of Coolers: 1 of 1

Client: Shaw E+I INC Project: Kirtland AFB

Date/Time Received: 2.16.11 08:30 Date cooler(s) opened: 2.16.11

Opened By (print): Russ Townsend (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1622

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 2.15.11 Seal Initials: ML

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.4 °C Correction Factor: -0.3 °C Final Value: 2.1 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

2 VOC Broken GW0022

If Non-Conformance issues were present, list by sample ID: _____

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW015

17

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

Samples Shipment Date: 16 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681633

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

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable ___ Skin Irritant ___ Poison B ___ Radiological ___ Unknown ___

Sample Disposal:
Return to Client ___ Disposal by Lab X Archive ___ (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental — Date: 2-16-11 Time: 1800
1. Received By (Signature/Affiliation) — Date: Time:
2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 2-17-11 Time: 08:45

Comments: POSSIBLE HIGH CONCENTRATIONS DISSOLVED ORGANICS

1102166

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA			N		

KIRTLAND_004 Summ Package

Shaw™
Shaw E & I, Inc.

1102166

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW015

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								300, Alkalinity by SM2320B					
-02	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-02	GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

Shaw™
Shaw E & I, Inc.
1102166

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW015

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-03	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-05	GW8015-TB	FIELDQC-BW-GW8015-TB-TB	16 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102166 Number of Coolers: 1 of 2

Client: SHAW E&I INC Project: KIRTLAND AFB

Date/Time Received: 2.17.11 08:45 Date cooler(s) opened: 2.17.11

Opened By (print): Russ Townsend (signature): _____

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 8407

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 2.16.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.7 °C Correction Factor: -0.3 °C Final Value: 1.4 °C

Dates samples were logged-in: 2-17-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110216 Number of Coolers: 2 of 2

Client: Shaw E+I Inc Project: Kirtland AFB

Date/Time Received: 2.17.11 08:45 Date cooler(s) opened: 2.17.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 1633

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 2.16.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.0 °C Correction Factor: -0.3 °C Final Value: 1.7 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 2

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW016

22

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

Samples Shipment Date: 17 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681644

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

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification: Non-hazard X Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal: Return to Client ☐ Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2-17-11 Time: 1730
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 5.1°C Date: 2-18-11 Time: 08:48

Comments: HIGH DISSOLVED ORGANICS GW0015 AND GW0010

1102174

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		

KIRTLAND_004 Summ Package

Shaw™
Shaw E & I, Inc.

1102179

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW016

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-02	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-04	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-06	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-06	GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-07	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW016

1102/74

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-07	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-08	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-07	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-08	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-09	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-10	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-11	GW8016-TB	FIELDQC-BW-GW8016-TB-TB	17 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102179 Number of Coolers: 1 of 2

Client: SHAW E&I INC Project: Kirtland AFB

Date/Time Received: 2.18.11 08:45 Date cooler(s) opened: 2.18.11

Opened By (print): Russ Townsend (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1644

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.17.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	Yes	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 5.4 °C Correction Factor: -0.3 °C Final Value: 5.1 °C

Dates samples were logged-in: 2-18-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): [signature]

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	(N/A)

If Non-Conformance issues were present, list by sample ID: _____

ph >4 for all Sulfide
ph <2 for all metals & ammonia samples

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102179 Number of Coolers: 2 of 2

Client: Shaw E&I INC Project: Kirtland AFB

Date/Time Received: 2.18.11 08:45 Date cooler(s) opened: 2.18.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 7882

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.17.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.9 °C Correction Factor: -0.3 °C Final Value: 3.6 °C

Dates samples were logged-in: See 1 of 2

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A

11. Did all bottles arrive unbroken? ..... (Yes) No N/A

12. Was all required bottle label information complete? ..... (Yes) No N/A

13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A

14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A

15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)

17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A

18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Monday, February 21, 2011 2:42 PM
To: kkostzer@empirlabs.com
Subject: Re: Samples for Kirtland Nitrates Out of hold

Plz run and document instrument malfunction.

From: Kim Kostzer [mailto:kkostzer@empirlabs.com]
Sent: Monday, February 21, 2011 10:20 AM
To: Moss, Pamela J
Cc: sgordon@empirlabs.com <sgordon@empirlabs.com>
Subject: Samples for Kirtland Nitrates Out of hold

Pam,

I was informed this morning that the IC stopped on Friday evening and the samples for 1102174-05 (GW0036), 1102174-07 (GW0037), and 1102174-09 (GW0038). These samples are out of hold for Nitrates. Please let me know how you would like to proceed with these.

Thank you,

Kim

Kim Kostzer
Project Manager
Empirical Laboratories, LLC
"Your National Small Business Partner"
621 Mainstream Drive, Suite 270 I Nashville, TN 37228 I www.empirlabs.com
Main: 615.345.1115 ext. 240 I Toll free: 877.345.1113 I Fax: 866.417.0548

Celebrating over 40 years of excellence, Empirical Laboratories is certified as a Woman-Owned Small Business and a Small Disadvantaged Business. Come visit our website at www.empirlabs.com today.

****Internet Email Confidentiality Footer**** Privileged/Confidential Information may be contained in this message. If you are not the addressee indicated in this message (or responsible for delivery of the message to such person), you may not copy or deliver this message to anyone. In such case, you should destroy this message and notify the sender by reply email. Please advise immediately if you or your employer do not consent to Internet email for messages of this kind. Opinions, conclusions and other information in this message that do not relate to the official business of The Shaw Group Inc. or its subsidiaries shall be understood as neither given nor endorsed by it. _____ The Shaw Group Inc. http://www.shawgrp.com

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW017

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

Samples Shipment Date: 18 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681655

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

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Date: 2/18/11 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 5.7°C Date: 2-18-11 Time: 09:30

Comments: HIGH DISSOLVED ORGANICS-GW0009

1102174

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW017

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-03	GW8017-TB	FIELDQC-BW-GW8017-TB-TB	18 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 102179 Number of Coolers: 1 of 1

Client: Shaw Project: Kirtland AFB

Date/Time Received: 2/19/11 9:30Am Date cooler(s) opened: 2/19/11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 1655

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 2·18·11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A

7. Was project identifiable from custody papers? ..... Yes No N/A

8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 4.0 °C Correction Factor: -0.3 °C Final Value: 3.7 °C

Dates samples were logged-in: 2-19-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): [initials]

10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A

11. Did all bottles arrive unbroken? ..... Yes No N/A

12. Was all required bottle label information complete? ..... Yes No N/A

13. Did all bottle labels agree with custody papers? ..... Yes No N/A

14. Were correct containers used for the analyses indicated? ..... Yes No N/A

15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A

17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A

18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

ph > 9 for all sulfates
ph < 2 for all metals & chromate samples

WORK ORDER

1102135

Printed: 3/11/2011 6:07:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (19 day TAT)

Received By: Chris Donald
Date Received: 02/15/2011 08:45

Logged In By: Chris Donald
Date Logged In 02/15/2011 13:12

Samples Received at: **1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102135

Printed: 3/11/2011 6:07:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102135-01 GW0019 [Water] Sampled 02/14/2011 16:45 US Mountain					
SM4500S2CF	03/08/2011 14:00	15	02/21/2011 17:45		
SW8260B	03/08/2011 14:00	15	02/28/2011 17:45		
SW8015B	03/08/2011 14:00	15	02/28/2011 17:45		
SW8011	03/08/2011 14:00	15	02/28/2011 17:45		
SW8015B	03/08/2011 14:00	15	02/21/2011 17:45		
SM4500NH3BG	03/08/2011 14:00	15	03/14/2011 18:45		
E300.0	03/08/2011 14:00	15	03/14/2011 18:45		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/16/2011 17:45		Nitrate
SM2320B	03/08/2011 14:00	15	02/28/2011 17:45		
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Ca, Pb, K, Na, Mg
1102135-02 GW0019 [Water] Sampled 02/14/2011 16:45 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Fe & Mn,Field Filtered and Preserved
1102135-03 GW0020 [Water] Sampled 02/14/2011 16:45 US Mountain					
SW8015B	03/08/2011 14:00	15	02/21/2011 17:45		
SW8011	03/08/2011 14:00	15	02/28/2011 17:45		
SW8015B	03/08/2011 14:00	15	02/28/2011 17:45		
SW8260B	03/08/2011 14:00	15	02/28/2011 17:45		
SM2320B	03/08/2011 14:00	15	02/28/2011 17:45		
SM4500S2CF	03/08/2011 14:00	15	02/21/2011 17:45		
SM4500NH3BG	03/08/2011 14:00	15	03/14/2011 18:45		
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Ca, Pb, K, Na, Mg
E300.0	03/08/2011 14:00	15	03/14/2011 18:45		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/16/2011 17:45		Nitrate

WORK ORDER

1102135

Printed: 3/11/2011 6:07:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102135-04 GW0020 [Water] Sampled 02/14/2011 16:45 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Fe & Mn,Field Filtered and Preserved
1102135-05 GW0021 [Water] Sampled 02/14/2011 11:17 US Mountain					
SW6010B	03/08/2011 14:00	15	08/13/2011 13:17		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/21/2011 12:17		
SW8011	03/08/2011 14:00	15	02/28/2011 12:17		
SW8015B	03/08/2011 14:00	15	02/28/2011 12:17		
SW8260B	03/08/2011 14:00	15	02/28/2011 12:17		
SM2320B	03/08/2011 14:00	15	02/28/2011 12:17		
SM4500NH3BG	03/08/2011 14:00	15	03/14/2011 13:17		
E300.0	03/08/2011 14:00	15	03/14/2011 13:17		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/16/2011 12:17		Nitrate
SM4500S2CF	03/08/2011 14:00	15	02/21/2011 12:17		
1102135-06 GW0021 [Water] Sampled 02/14/2011 11:17 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/13/2011 13:17		Fe & Mn,Field Filtered and Preserved
1102135-07 GW8013-TB [Water] Sampled 02/14/2011 08:00 Central					
SW8260B	03/08/2011 14:00	15	02/28/2011 08:00		

WORK ORDER

1102141

Printed: 3/11/2011 6:07:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (18 day TAT)

Received By: Kim Kostzer
Date Received: 02/16/2011 08:30

Logged In By: Kim Kostzer
Date Logged In 02/16/2011 09:29

Samples Received at: **2.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102141

Printed: 3/11/2011 6:07:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102141-01 GW0022 [Water] Sampled 02/15/2011 13:59 Central					
SM4500S2CF	03/08/2011 14:00	15	02/22/2011 13:59		
SW8015B	03/08/2011 14:00	15	02/22/2011 13:59		
SW8011	03/08/2011 14:00	15	03/01/2011 13:59		
SW8015B	03/08/2011 14:00	15	03/01/2011 13:59		
SW8260B	03/08/2011 14:00	15	03/01/2011 13:59		
SM2320B	03/08/2011 14:00	15	03/01/2011 13:59		
SM4500NH3BG	03/08/2011 14:00	15	03/15/2011 13:59		
E300.0	03/08/2011 14:00	15	03/15/2011 13:59		Chloride/Sulfate
SW6010B	03/08/2011 14:00	15	08/14/2011 13:59		Ca, Pb, K, Na, Mg
E300.0	03/08/2011 14:00	15	02/17/2011 13:59		Nitrate
1102141-02 GW0039-R [Water] Sampled 02/15/2011 10:30 Central					
SW8270C	03/08/2011 14:00	15	02/22/2011 10:30		
1102141-03 GW8002-AB [Water] Sampled 02/15/2011 10:30 Central					
SW8260B	03/08/2011 14:00	15	03/01/2011 10:30		
1102141-04 GW8002-RB [Water] Sampled 02/15/2011 14:50 Central					
SW6010B	03/08/2011 14:00	15	08/14/2011 14:50		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/22/2011 14:50		
SW8015B	03/08/2011 14:00	15	03/01/2011 14:50		
SW8260B	03/08/2011 14:00	15	03/01/2011 14:50		
1102141-05 GW8002-RB [Water] Sampled 02/15/2011 14:50 Central					
SW6010B	03/08/2011 14:00	15	08/14/2011 14:50		Fe & Mn

WORK ORDER

1102141

Printed: 3/11/2011 6:07:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102141-06 GW0022 [Water] Sampled 02/15/2011 13:59 Central					
SW6010B	03/08/2011 14:00	15	08/14/2011 13:59		Fe & Mn
1102141-07 GW8014-TB [Water] Sampled 02/15/2011 08:00 Central					
SW8260B	03/08/2011 14:00	15	03/01/2011 08:00		

WORK ORDER

1102166

Printed: 3/11/2011 6:08:28PM

Empirical Laboratories, LLC

Client: **Shaw E & I (I700)**
Project: **Kirtland AFB 2011**

Project Manager: **Kim Kostzer**
Project Number: **SHW_Kirtland**

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (17 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 02/17/2011 08:45

Date Logged In 02/17/2011 15:31

Samples Received at: **1.4°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102166

Printed: 3/11/2011 6:08:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102166-01 GW0011 [Water] Sampled 02/16/2011 10:45 US Mountain					**MS/MSD**
SM4500S2CF	03/08/2011 14:00	15	02/23/2011 11:45		MS/MSD
SW8015B	03/08/2011 14:00	15	02/23/2011 11:45		MS/MSD
SW8011	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SW8015B	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SW8260B	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SM2320B	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SM4500NH3BG	03/08/2011 14:00	15	03/16/2011 12:45		MS/MSD
E300.0	03/08/2011 14:00	15	03/16/2011 12:45		Chloride/sulfate, MS/MSD
SW6010B	03/08/2011 14:00	15	08/15/2011 12:45		Ca, Pb, K, Na, Mg, MS/MSD
E300.0	03/08/2011 14:00	15	02/18/2011 11:45		Nitrate, MS/MSD
1102166-02 GW0011 [Water] Sampled 02/16/2011 10:45 US Mountain					**Field Filtered and Preserved, MS/MSD**
SW6010B	03/08/2011 14:00	15	08/15/2011 12:45		Fe & Mn,Field Filtered and Preserved, MS/MSD
1102166-03 GW0031 [Water] Sampled 02/16/2011 15:05 US Mountain					
SM4500S2CF	03/08/2011 14:00	15	02/23/2011 16:05		
SW6010B	03/08/2011 14:00	15	08/15/2011 17:05		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/23/2011 16:05		
SW8011	03/08/2011 14:00	15	03/02/2011 16:05		
SW8015B	03/08/2011 14:00	15	03/02/2011 16:05		
SW8260B	03/08/2011 14:00	15	03/02/2011 16:05		
SM2320B	03/08/2011 14:00	15	03/02/2011 16:05		
SM4500NH3BG	03/08/2011 14:00	15	03/16/2011 17:05		
E300.0	03/08/2011 14:00	15	03/16/2011 17:05		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/18/2011 16:05		Nitrate

WORK ORDER

1102166

Printed: 3/11/2011 6:08:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102166-04 GW0031 [Water] Sampled 02/16/2011 15:05 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/15/2011 17:05		Fe & Mn,Field Filtered and Preserved
1102166-05 GW8015-TB [Water] Sampled 02/16/2011 08:00 Mountain					
SW8260B	03/08/2011 14:00	15	03/02/2011 09:00		

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: **Shaw E & I (I700)**
Project: **Kirtland AFB 2011**

Project Manager: **Kim Kostzer**
Project Number: **SHW_Kirtland**

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (16 day TAT)

Received By: Chris Donald
Date Received: 02/18/2011 08:45

Logged In By: Chris Donald
Date Logged In 02/18/2011 10:44

Samples Received at: **5.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-01 GW0010 [Water] Sampled 02/17/2011 14:56 US Mountain					
E300.0	03/08/2011 14:00	15	03/17/2011 16:56		Chloride/sulfate
SW6010B	03/08/2011 14:00	15	08/16/2011 16:56		Ca, Pb, K, Na, Mg
E300.0	03/08/2011 14:00	15	02/19/2011 15:56		Nitrate
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 16:56		
SM2320B	03/08/2011 14:00	15	03/03/2011 15:56		
SW8260B	03/08/2011 14:00	15	03/03/2011 15:56		
SW8015B	03/08/2011 14:00	15	03/03/2011 15:56		
SW8011	03/08/2011 14:00	15	03/03/2011 15:56		
SW8015B	03/08/2011 14:00	15	02/24/2011 15:56		
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 15:56		
1102174-02 GW0010 [Water] Sampled 02/17/2011 14:56 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 16:56		Fe & Mn,Field Filtered and Preserved
1102174-03 GW0015 [Water] Sampled 02/17/2011 11:10 US Mountain					
SW8015B	03/08/2011 14:00	15	02/24/2011 12:10		
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 13:10		
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 12:10		
E300.0	03/08/2011 14:00	15	02/19/2011 12:10		Nitrate
E300.0	03/08/2011 14:00	15	03/17/2011 13:10		Chloride/sulfate
SM2320B	03/08/2011 14:00	15	03/03/2011 12:10		
SW8260B	03/08/2011 14:00	15	03/03/2011 12:10		
SW8011	03/08/2011 14:00	15	03/03/2011 12:10		
SW6010B	03/08/2011 14:00	15	08/16/2011 13:10		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	03/03/2011 12:10		

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-04 GW0015 [Water] Sampled 02/17/2011 11:10 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 13:10		Fe & Mn,Field Filtered and Preserved
1102174-05 GW0036 [Water] Sampled 02/17/2011 10:18 US Mountain					
SW8015B	03/08/2011 14:00	15	03/03/2011 11:18		
SW8260B	03/08/2011 14:00	15	03/03/2011 11:18		
SW6010B	03/08/2011 14:00	15	08/16/2011 12:18		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/24/2011 11:18		
SW8011	03/08/2011 14:00	15	03/03/2011 11:18		
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 12:18		
E300.0	03/08/2011 14:00	15	03/17/2011 12:18		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/19/2011 11:18		Nitrate
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 11:18		
SW8270C	03/08/2011 14:00	15	02/24/2011 11:18		
SM2320B	03/08/2011 14:00	15	03/03/2011 11:18		
1102174-06 GW0036 [Water] Sampled 02/17/2011 10:18 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 12:18		Fe & Mn,Field Filtered and Preserved

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-07 GW0037 [Water] Sampled 02/17/2011 10:50 US Mountain					
SW8015B	03/08/2011 14:00	15	03/03/2011 11:50		
E300.0	03/08/2011 14:00	15	03/17/2011 12:50		Chloride/sulfate
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 12:50		
SM2320B	03/08/2011 14:00	15	03/03/2011 11:50		
SW8260B	03/08/2011 14:00	15	03/03/2011 11:50		
E300.0	03/08/2011 14:00	15	02/19/2011 11:50		Nitrate
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 11:50		
SW8270C	03/08/2011 14:00	15	02/24/2011 11:50		
SW8011	03/08/2011 14:00	15	03/03/2011 11:50		
SW8015B	03/08/2011 14:00	15	02/24/2011 11:50		
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Ca, Pb, K, Na, Mg
1102174-08 GW0037 [Water] Sampled 02/17/2011 10:50 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Fe & Mn,Field Filtered and Preserved

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-09 GW0038 [Water] Sampled 02/17/2011 10:50 US Mountain					
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Ca, Pb, K, Na, Mg
SW8260B	03/08/2011 14:00	15	03/03/2011 11:50		
SW8015B	03/08/2011 14:00	15	03/03/2011 11:50		
SW8011	03/08/2011 14:00	15	03/03/2011 11:50		
SM2320B	03/08/2011 14:00	15	03/03/2011 11:50		
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 11:50		
E300.0	03/08/2011 14:00	15	02/19/2011 11:50		Nitrate
SW8015B	03/08/2011 14:00	15	02/24/2011 11:50		
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 12:50		
E300.0	03/08/2011 14:00	15	03/17/2011 12:50		Chloride/sulfate
1102174-10 GW0038 [Water] Sampled 02/17/2011 10:50 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Fe & Mn,Field Filtered and Preserved
1102174-11 GW8016-TB [Water] Sampled 02/17/2011 08:00 Central					
SW8260B	03/08/2011 14:00	15	03/03/2011 08:00		

WORK ORDER

1102179

Printed: 3/11/2011 6:09:28PM

Empirical Laboratories, LLC

Client: **Shaw E & I (I700)**
Project: **Kirtland AFB 2011**

Project Manager: **Kim Kostzer**
Project Number: **SHW_Kirtland**

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (15 day TAT)
Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/19/2011 09:30
Date Logged In 02/19/2011 13:49

Samples Received at: **3.7°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102179

Printed: 3/11/2011 6:09:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102179-01 GW0009 [Water] Sampled 02/18/2011 13:06 US Mountain					
SM4500S2CF	03/09/2011 14:00	15	02/25/2011 14:06		
E300.0	03/09/2011 14:00	15	02/20/2011 14:06		Nitrate
E300.0	03/09/2011 14:00	15	03/18/2011 15:06		Chloride/sulfate
SM4500NH3BG	03/09/2011 14:00	15	03/18/2011 15:06		
SM2320B	03/09/2011 14:00	15	03/04/2011 14:06		
SW8260B	03/09/2011 14:00	15	03/04/2011 14:06		
SW8015B	03/09/2011 14:00	15	03/04/2011 14:06		
SW8011	03/09/2011 14:00	15	03/04/2011 14:06		
SW8015B	03/09/2011 14:00	15	02/25/2011 14:06		
SW6010B	03/09/2011 14:00	15	08/17/2011 15:06		Ca, Pb, K, Na, Mg
1102179-02 GW0009 [Water] Sampled 02/18/2011 13:06 US Mountain					**Field Filtered and Preserved**
SW6010B	03/09/2011 14:00	15	08/17/2011 15:06		Fe & Mn,Field Filtered and Preserved
1102179-03 GW8017-TB [Water] Sampled 02/18/2011 08:00 Central					
SW8260B	03/09/2011 14:00	15	03/04/2011 08:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_004
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 3/14/2011
Client Sample Count: 29

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B	SW8270C
Client Sample	2/14/2011	2/15/2011	1102135-01	GW0019	X	X	X	X	X	X	X	X	
Client Sample	2/14/2011	2/15/2011	1102135-02	GW0019					Field Filtered and Preserved				
Client Sample	2/14/2011	2/15/2011	1102135-03	GW0020	X	X	X	X	X	X	X	X	
Client Sample	2/14/2011	2/15/2011	1102135-04	GW0020					Field Filtered and Preserved				
Client Sample	2/14/2011	2/15/2011	1102135-05	GW0021	X	X	X	X	X	X	X	X	
Client Sample	2/14/2011	2/15/2011	1102135-06	GW0021					Field Filtered and Preserved				
Client Sample	2/14/2011	2/15/2011	1102135-07	GW8013-TB								X	
Client Sample	2/15/2011	2/16/2011	1102141-01	GW0022	X	X	X	X	X	X	X	X	
Client Sample	2/15/2011	2/16/2011	1102141-02	GW0039-R									X
Client Sample	2/15/2011	2/16/2011	1102141-03	GW8002-AB								X	
Client Sample	2/15/2011	2/16/2011	1102141-04	GW8002-RB					X		X	X	
Client Sample	2/15/2011	2/16/2011	1102141-05	GW8002-RB					X				
Client Sample	2/15/2011	2/16/2011	1102141-06	GW0022					X				
Trip Blank	2/15/2011	2/16/2011	1102141-07	GW8014-TB								X	
Client Sample	2/16/2011	2/17/2011	1102166-01	GW0011	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	
Client Sample	2/16/2011	2/17/2011	1102166-02	GW0011					Field Filtered and Preserved, MS/MSD				
Client Sample	2/16/2011	2/17/2011	1102166-03	GW0031	X	X	X	X	X	X	X	X	
Client Sample	2/16/2011	2/17/2011	1102166-04	GW0031					Field Filtered and Preserved				
Client Sample	2/16/2011	2/17/2011	1102166-05	GW8015-TB								X	
Client Sample	2/17/2011	2/18/2011	1102174-01	GW0010	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-02	GW0010					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-03	GW0015	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-04	GW0015					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-05	GW0036	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-06	GW0036					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-07	GW0037	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-08	GW0037					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-09	GW0038	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-10	GW0038					Field Filtered and Preserved				
Trip Blank	2/17/2011	2/18/2011	1102174-11	GW8016-TB								X	
Ambient Blank	2/18/2011	2/19/2011	1102179-01	GW0009	X	X	X	X	X	X	X	X	
Client Sample	2/18/2011	2/19/2011	1102179-02	GW0009					Field Filtered and Preserved				
Trip Blank	2/18/2011	2/19/2011	1102179-03	GW8017-TB								X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01RE1	File ID:	0213501.D
Sampled:	02/14/11 16:45	Prepared:	02/19/11 00:00	Analyzed:	02/19/11 15:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.52	2.50	5.00	10.0	X, J
71-43-2	Benzene	34.9	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	1.31	0.250	0.500	1.00	
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene	1.87	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	1.11	0.250	0.500	1.00	
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene	1.77	0.250	0.500	1.00	
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.904	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	2.29	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	1.10	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01RE1	File ID:	0213501.D
Sampled:	02/14/11 16:45	Prepared:	02/19/11 00:00	Analyzed:	02/19/11 15:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	23.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	17.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	1.33	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	9.79	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	0.307	0.250	0.500	1.00	J
103-65-1	n-Propylbenzene	4.04	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, Q, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	12.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	10.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	30.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	65.7	0.500	1.00	2.00	
95-47-6	o-Xylene	5.22	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.61	105	75 - 120	
Dibromofluoromethane	30.00	32.05	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.56	98.5	70 - 120	
Toluene-d8	30.00	29.86	99.5	85 - 120	

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	0213503.D
Sampled:	02/14/11 16:45	Prepared:	02/17/11 11:15	Analyzed:	02/18/11 06:00
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.11	2.50	5.00	10.0	J, B
71-43-2	Benzene	26.8	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	0.979	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	1.42	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	1.06	0.250	0.500	1.00	
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.793	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	2.03	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.735	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	0213503.D
Sampled:	02/14/11 16:45	Prepared:	02/17/11 11:15	Analyzed:	02/18/11 06:00
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	12.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	1.24	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	8.35	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	0.277	0.250	0.500	1.00	J
103-65-1	n-Propylbenzene	2.33	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, Q, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	9.74	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	10.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	29.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	62.9	0.500	1.00	2.00	
95-47-6	o-Xylene	4.66	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.86	106	75 - 120	
Dibromofluoromethane	30.00	30.79	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.96	99.9	70 - 120	
Toluene-d8	30.00	29.78	99.3	85 - 120	

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	0213505.D
Sampled:	02/14/11 11:17	Prepared:	02/17/11 11:15	Analyzed:	02/18/11 06:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.376	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	0213505.D
Sampled:	02/14/11 11:17	Prepared:	02/17/11 11:15	Analyzed:	02/18/11 06:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, Q, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.34	104	75 - 120	
Dibromofluoromethane	30.00	31.19	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.53	102	70 - 120	
Toluene-d8	30.00	29.66	98.9	85 - 120	

ANALYSIS DATA SHEET

GW8013-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-07	File ID:	0213507.D
Sampled:	02/14/11 08:00	Prepared:	02/17/11 11:15	Analyzed:	02/18/11 00:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8013-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-07	File ID:	0213507.D
Sampled:	02/14/11 08:00	Prepared:	02/17/11 11:15	Analyzed:	02/18/11 00:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.16	104	75 - 120	
Dibromofluoromethane	30.00	30.98	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.21	97.4	70 - 120	
Toluene-d8	30.00	30.45	102	85 - 120	

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	0214101.D
Sampled:	02/15/11 13:59	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 15:56
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.26	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	0214101.D
Sampled:	02/15/11 13:59	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 15:56
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.343	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	14.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.12	104	75 - 120	
Dibromofluoromethane	30.00	33.09	110	85 - 115	
1,2-Dichloroethane-d4	30.00	29.90	99.7	70 - 120	
Toluene-d8	30.00	29.99	100	85 - 120	

ANALYSIS DATA SHEET

GW8002-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-03	File ID:	0214103.D
Sampled:	02/15/11 10:30	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 12:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.75	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8002-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-03	File ID:	0214103.D
Sampled:	02/15/11 10:30	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 12:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.00	103	75 - 120	
Dibromofluoromethane	30.00	33.53	112	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	29.04	96.8	85 - 120	

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04	File ID:	0214104.D
Sampled:	02/15/11 14:50	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 12:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	14.3	2.50	5.00	10.0	
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04	File ID:	0214104.D
Sampled:	02/15/11 14:50	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 12:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	3.84	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.62	105	75 - 120	
Dibromofluoromethane	30.00	33.49	112	85 - 115	
1,2-Dichloroethane-d4	30.00	28.86	96.2	70 - 120	
Toluene-d8	30.00	29.72	99.1	85 - 120	

ANALYSIS DATA SHEET

GW8014-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-07	File ID:	0214107.D
Sampled:	02/15/11 08:00	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 11:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.279	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

GW8014-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-07	File ID:	0214107.D
Sampled:	02/15/11 08:00	Prepared:	02/18/11 00:00	Analyzed:	02/18/11 11:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride	1.52	0.500	1.00	2.00	J
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene	0.265	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.27	101	75 - 120	
Dibromofluoromethane	30.00	34.50	115	85 - 115	
1,2-Dichloroethane-d4	30.00	30.32	101	70 - 120	
Toluene-d8	30.00	28.94	96.5	85 - 120	

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	0216601D.D
Sampled:	02/16/11 10:45	Prepared:	02/22/11 00:00	Analyzed:	02/22/11 16:43
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1570	250	500	1000	X, D
71-43-2	Benzene	4300	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	N, Q, X, U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	Y, U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	485	250	500	1000	X, J, D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	X, U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	104	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene	39.9	25.0	50.0	100	J, D
75-71-8	Dichlorodifluoromethane		50.0	100	200	N, Q, X, U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	N, U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	943	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	U

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	0216601D.D
Sampled:	02/16/11 10:45	Prepared:	02/22/11 00:00	Analyzed:	02/22/11 16:43
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	118	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	65.8	25.0	50.0	100	J, D
108-10-1	4-Methyl-2-pentanone	177	125	250	500	X, J, D
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	106	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	N, Q, X, U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	7170	25.0	50.0	100	N, D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	N, X, U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	N, X, U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	86.8	25.0	50.0	100	J, D
95-63-6	1,2,4-Trimethylbenzene	230	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
108-38-3/106-42-	m,p-Xylene	1570	50.0	100	200	D
95-47-6	o-Xylene	749	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.82	103	75 - 120	
Dibromofluoromethane	30.00	33.67	112	85 - 115	
1,2-Dichloroethane-d4	30.00	31.13	104	70 - 120	
Toluene-d8	30.00	28.79	96.0	85 - 120	

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	0216603D.D
Sampled:	02/16/11 15:05	Prepared:	02/22/11 00:00	Analyzed:	02/22/11 17:12
Solids:		Preparation:	5030B	Dilution:	5

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	112	12.5	25.0	50.0	X, D
71-43-2	Benzene	303	1.25	2.50	5.00	D
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	Q, X, U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	Y, U
104-51-8	n-Butylbenzene	5.68	1.25	2.50	5.00	D
78-93-3	2-Butanone		12.5	25.0	50.0	X, U
135-98-8	sec-Butylbenzene	5.73	1.25	2.50	5.00	D
98-06-6	tert-Butylbenzene	3.63	1.25	2.50	5.00	J, D
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	X, U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)	10.3	1.25	2.50	5.00	D
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	Q, X, U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene	78.4	1.25	2.50	5.00	D
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	0216603D.D
Sampled:	02/16/11 15:05	Prepared:	02/22/11 00:00	Analyzed:	02/22/11 17:12
Solids:		Preparation:	5030B	Dilution:	5

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	X, U
98-82-8	Isopropylbenzene	17.0	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	U
91-20-3	Naphthalene	10.4	1.25	2.50	5.00	D
108-10-1	4-Methyl-2-pentanone	16.5	6.25	12.5	25.0	X, J, D
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene	13.7	1.25	2.50	5.00	D
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	Q, X, U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene	492	1.25	2.50	5.00	D
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	5.00	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	5.00	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	X, U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	X, U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene	19.8	1.25	2.50	5.00	D
95-63-6	1,2,4-Trimethylbenzene	51.5	1.25	2.50	5.00	D
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
108-38-3/106-42-	m,p-Xylene	177	2.50	5.00	10.0	D
95-47-6	o-Xylene	71.3	1.25	2.50	5.00	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.61	105	75 - 120	
Dibromofluoromethane	30.00	31.76	106	85 - 115	
1,2-Dichloroethane-d4	30.00	29.00	96.7	70 - 120	
Toluene-d8	30.00	28.79	96.0	85 - 120	

ANALYSIS DATA SHEET

GW8015-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-05	File ID:	0216605.D
Sampled:	02/16/11 08:00	Prepared:	02/21/11 00:00	Analyzed:	02/21/11 11:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8015-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-05	File ID:	0216605.D
Sampled:	02/16/11 08:00	Prepared:	02/21/11 00:00	Analyzed:	02/21/11 11:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene	0.303	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.08	100	75 - 120	
Dibromofluoromethane	30.00	33.84	113	85 - 115	
1,2-Dichloroethane-d4	30.00	29.90	99.7	70 - 120	
Toluene-d8	30.00	30.26	101	85 - 120	

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	0217401D.D
Sampled:	02/17/11 14:56	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 23:59
Solids:		Preparation:	5030B	Dilution:	200

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		500	1000	2000	X, U
71-43-2	Benzene	7350	50.0	100	200	D
108-86-1	Bromobenzene		50.0	100	200	U
74-97-5	Bromochloromethane		50.0	100	200	U
75-27-4	Bromodichloromethane		50.0	100	200	U
75-25-2	Bromoform		50.0	100	200	Q, U
74-83-9	Bromomethane		100	200	400	U
104-51-8	n-Butylbenzene		50.0	100	200	U
78-93-3	2-Butanone		500	1000	2000	X, U
135-98-8	sec-Butylbenzene		50.0	100	200	U
98-06-6	tert-Butylbenzene		50.0	100	200	U
75-15-0	Carbon disulfide		50.0	100	200	U
56-23-5	Carbon tetrachloride		50.0	100	200	X, U
108-90-7	Chlorobenzene		50.0	100	200	U
75-00-3	Chloroethane		100	200	400	Q, U
67-66-3	Chloroform		50.0	100	200	U
74-87-3	Chloromethane		50.0	100	200	Q, U
95-49-8	2-Chlorotoluene		50.0	100	200	U
106-43-4	4-Chlorotoluene		50.0	100	200	U
124-48-1	Dibromochloromethane		50.0	100	200	U
96-12-8	1,2-Dibromo-3-chloropropane		100	200	400	U
106-93-4	1,2-Dibromoethane (EDB)		50.0	100	200	U
74-95-3	Dibromomethane		50.0	100	200	U
95-50-1	1,2-Dichlorobenzene		50.0	100	200	U
541-73-1	1,3-Dichlorobenzene		50.0	100	200	U
106-46-7	1,4-Dichlorobenzene		50.0	100	200	U
75-71-8	Dichlorodifluoromethane		100	200	400	Q, U
75-34-3	1,1-Dichloroethane		50.0	100	200	U
107-06-2	1,2-Dichloroethane		50.0	100	200	U
75-35-4	1,1-Dichloroethene		50.0	100	200	U
156-59-2	cis-1,2-Dichloroethene		50.0	100	200	U
156-60-5	trans-1,2-Dichloroethene		50.0	100	200	U
78-87-5	1,2-Dichloropropane		50.0	100	200	U
142-28-9	1,3-Dichloropropane		50.0	100	200	U
594-20-7	2,2-Dichloropropane		50.0	100	200	U
563-58-6	1,1-Dichloropropene		50.0	100	200	U
10061-01-5	cis-1,3-Dichloropropene		50.0	100	200	U
10061-02-6	trans-1,3-Dichloropropene		50.0	100	200	U
100-41-4	Ethylbenzene	1100	50.0	100	200	D
87-68-3	Hexachlorobutadiene		50.0	100	200	X, U

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	0217401D.D
Sampled:	02/17/11 14:56	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 23:59
Solids:		Preparation:	5030B	Dilution:	200

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		250	500	1000	X, U
98-82-8	Isopropylbenzene	124	50.0	100	200	J, D
99-87-6	p-Isopropyltoluene		50.0	100	200	U
75-09-2	Methylene chloride	167	100	200	400	J, D
91-20-3	Naphthalene	66.5	50.0	100	200	J, D
108-10-1	4-Methyl-2-pentanone		250	500	1000	X, U
1634-04-4	Methyl t-Butyl Ether		50.0	100	200	U
103-65-1	n-Propylbenzene	102	50.0	100	200	J, D
100-42-5	Styrene		50.0	100	200	U
79-34-5	1,1,2,2-Tetrachloroethane		50.0	100	200	U
630-20-6	1,1,1,2-Tetrachloroethane		50.0	100	200	U
127-18-4	Tetrachloroethene		50.0	100	200	U
108-88-3	Toluene	2310	50.0	100	200	D
87-61-6	1,2,3-Trichlorobenzene		50.0	100	200	U
120-82-1	1,2,4-Trichlorobenzene		50.0	100	200	U
79-00-5	1,1,2-Trichloroethane		50.0	100	200	U
71-55-6	1,1,1-Trichloroethane		50.0	100	200	X, U
79-01-6	Trichloroethene		50.0	100	200	U
75-69-4	Trichlorofluoromethane		100	200	400	X, U
96-18-4	1,2,3-Trichloropropane		100	200	400	U
108-67-8	1,3,5-Trimethylbenzene	147	50.0	100	200	J, D
95-63-6	1,2,4-Trimethylbenzene	355	50.0	100	200	D
75-01-4	Vinyl chloride		50.0	100	200	Q, U
108-38-3/106-42-	m,p-Xylene	1380	100	200	400	D
95-47-6	o-Xylene	643	50.0	100	200	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.71	109	75 - 120	
Dibromofluoromethane	30.00	33.75	113	85 - 115	
1,2-Dichloroethane-d4	30.00	28.40	94.7	70 - 120	
Toluene-d8	30.00	30.00	100	85 - 120	

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	0217403D.D
Sampled:	02/17/11 11:10	Prepared:	02/24/11 00:00	Analyzed:	02/25/11 00:29
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1470	250	500	1000	X, D
71-43-2	Benzene	2840	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	Q, U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	502	250	500	1000	X, J, D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	X, U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	Q, U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Q, U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	73.4	25.0	50.0	100	J, D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	Q, U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	897	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	X, U

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	0217403D.D
Sampled:	02/17/11 11:10	Prepared:	02/24/11 00:00	Analyzed:	02/25/11 00:29
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	105	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride	61.3	50.0	100	200	J, D
91-20-3	Naphthalene	74.2	25.0	50.0	100	J, D
108-10-1	4-Methyl-2-pentanone		125	250	500	X, U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	103	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	5560	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	X, U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	X, U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	107	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	331	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	Q, U
108-38-3/106-42-	m,p-Xylene	2090	50.0	100	200	D
95-47-6	o-Xylene	771	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.57	109	75 - 120	
Dibromofluoromethane	30.00	31.89	106	85 - 115	
1,2-Dichloroethane-d4	30.00	29.71	99.0	70 - 120	
Toluene-d8	30.00	29.69	99.0	85 - 120	

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	0217405.D
Sampled:	02/17/11 10:18	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 22:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	0217405.D
Sampled:	02/17/11 10:18	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 22:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.36	101	75 - 120	
Dibromofluoromethane	30.00	33.14	110	85 - 115	
1,2-Dichloroethane-d4	30.00	30.03	100	70 - 120	
Toluene-d8	30.00	28.51	95.0	85 - 120	

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	0217407.D
Sampled:	02/17/11 10:50	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 22:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	0217407.D
Sampled:	02/17/11 10:50	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 22:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.86	103	75 - 120	
Dibromofluoromethane	30.00	34.65	115	85 - 115	
1,2-Dichloroethane-d4	30.00	31.26	104	70 - 120	
Toluene-d8	30.00	29.36	97.9	85 - 120	

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	0217409.D
Sampled:	02/17/11 10:50	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 23:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	0217409.D
Sampled:	02/17/11 10:50	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 23:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.94	103	75 - 120	
Dibromofluoromethane	30.00	34.72	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	32.72	109	70 - 120	
Toluene-d8	30.00	29.62	98.7	85 - 120	

ANALYSIS DATA SHEET

GW8016-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-11	File ID:	0217411.D
Sampled:	02/17/11 08:00	Prepared:	02/23/11 00:00	Analyzed:	02/23/11 13:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	Q, X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	X, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	X, U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	X, U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8016-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-11	File ID:	0217411.D
Sampled:	02/17/11 08:00	Prepared:	02/23/11 00:00	Analyzed:	02/23/11 13:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.91	103	75 - 120	
Dibromofluoromethane	30.00	33.75	112	85 - 115	
1,2-Dichloroethane-d4	30.00	32.11	107	70 - 120	
Toluene-d8	30.00	29.90	99.7	85 - 120	

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	0217901D.D
Sampled:	02/18/11 13:06	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 16:28
Solids:		Preparation:	5030B	Dilution:	20

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1010	50.0	100	200	X, D
71-43-2	Benzene	2400	5.00	10.0	20.0	D
108-86-1	Bromobenzene		5.00	10.0	20.0	U
74-97-5	Bromochloromethane		5.00	10.0	20.0	U
75-27-4	Bromodichloromethane		5.00	10.0	20.0	U
75-25-2	Bromoform		5.00	10.0	20.0	X, U
74-83-9	Bromomethane		10.0	20.0	40.0	U
104-51-8	n-Butylbenzene		5.00	10.0	20.0	U
78-93-3	2-Butanone	203	50.0	100	200	X, D
135-98-8	sec-Butylbenzene	12.0	5.00	10.0	20.0	J, D
98-06-6	tert-Butylbenzene	6.11	5.00	10.0	20.0	J, D
75-15-0	Carbon disulfide		5.00	10.0	20.0	U
56-23-5	Carbon tetrachloride		5.00	10.0	20.0	X, U
108-90-7	Chlorobenzene		5.00	10.0	20.0	U
75-00-3	Chloroethane		10.0	20.0	40.0	U
67-66-3	Chloroform		5.00	10.0	20.0	U
74-87-3	Chloromethane		5.00	10.0	20.0	U
95-49-8	2-Chlorotoluene		5.00	10.0	20.0	U
106-43-4	4-Chlorotoluene		5.00	10.0	20.0	U
124-48-1	Dibromochloromethane		5.00	10.0	20.0	U
96-12-8	1,2-Dibromo-3-chloropropane		10.0	20.0	40.0	U
106-93-4	1,2-Dibromoethane (EDB)	56.3	5.00	10.0	20.0	D
74-95-3	Dibromomethane		5.00	10.0	20.0	U
95-50-1	1,2-Dichlorobenzene		5.00	10.0	20.0	U
541-73-1	1,3-Dichlorobenzene		5.00	10.0	20.0	U
106-46-7	1,4-Dichlorobenzene		5.00	10.0	20.0	U
75-71-8	Dichlorodifluoromethane		10.0	20.0	40.0	U
75-34-3	1,1-Dichloroethane		5.00	10.0	20.0	U
107-06-2	1,2-Dichloroethane		5.00	10.0	20.0	X, U
75-35-4	1,1-Dichloroethene		5.00	10.0	20.0	U
156-59-2	cis-1,2-Dichloroethene		5.00	10.0	20.0	U
156-60-5	trans-1,2-Dichloroethene		5.00	10.0	20.0	U
78-87-5	1,2-Dichloropropane		5.00	10.0	20.0	U
142-28-9	1,3-Dichloropropane		5.00	10.0	20.0	U
594-20-7	2,2-Dichloropropane		5.00	10.0	20.0	U
563-58-6	1,1-Dichloropropene		5.00	10.0	20.0	U
10061-01-5	cis-1,3-Dichloropropene		5.00	10.0	20.0	U
10061-02-6	trans-1,3-Dichloropropene		5.00	10.0	20.0	U
100-41-4	Ethylbenzene	525	5.00	10.0	20.0	D
87-68-3	Hexachlorobutadiene		5.00	10.0	20.0	X, U

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	0217901D.D
Sampled:	02/18/11 13:06	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 16:28
Solids:		Preparation:	5030B	Dilution:	20

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	213	25.0	50.0	100	X, D
98-82-8	Isopropylbenzene	55.4	5.00	10.0	20.0	D
99-87-6	p-Isopropyltoluene		5.00	10.0	20.0	U
75-09-2	Methylene chloride		10.0	20.0	40.0	U
91-20-3	Naphthalene	154	5.00	10.0	20.0	D
108-10-1	4-Methyl-2-pentanone	189	25.0	50.0	100	X, D
1634-04-4	Methyl t-Butyl Ether		5.00	10.0	20.0	U
103-65-1	n-Propylbenzene	58.5	5.00	10.0	20.0	D
100-42-5	Styrene		5.00	10.0	20.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.00	10.0	20.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.00	10.0	20.0	U
127-18-4	Tetrachloroethene		5.00	10.0	20.0	U
108-88-3	Toluene	3060	5.00	10.0	20.0	D
87-61-6	1,2,3-Trichlorobenzene		5.00	10.0	20.0	U
120-82-1	1,2,4-Trichlorobenzene		5.00	10.0	20.0	U
79-00-5	1,1,2-Trichloroethane		5.00	10.0	20.0	U
71-55-6	1,1,1-Trichloroethane		5.00	10.0	20.0	X, U
79-01-6	Trichloroethene		5.00	10.0	20.0	U
75-69-4	Trichlorofluoromethane		10.0	20.0	40.0	X, U
96-18-4	1,2,3-Trichloropropane		10.0	20.0	40.0	U
108-67-8	1,3,5-Trimethylbenzene	77.9	5.00	10.0	20.0	D
95-63-6	1,2,4-Trimethylbenzene	226	5.00	10.0	20.0	D
75-01-4	Vinyl chloride		5.00	10.0	20.0	U
108-38-3/106-42-	m,p-Xylene	1380	10.0	20.0	40.0	D
95-47-6	o-Xylene	637	5.00	10.0	20.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.47	108	75 - 120	
Dibromofluoromethane	30.00	31.91	106	85 - 115	
1,2-Dichloroethane-d4	30.00	28.18	93.9	70 - 120	
Toluene-d8	30.00	28.25	94.2	85 - 120	

ANALYSIS DATA SHEET

GW8017-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-03	File ID:	0217903.D
Sampled:	02/18/11 08:00	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 09:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8017-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-03	File ID:	0217903.D
Sampled:	02/18/11 08:00	Prepared:	02/24/11 00:00	Analyzed:	02/24/11 09:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene	0.298	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.84	99.5	75 - 120	
Dibromofluoromethane	30.00	34.03	113	85 - 115	
1,2-Dichloroethane-d4	30.00	32.58	109	70 - 120	
Toluene-d8	30.00	29.82	99.4	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05006	Instrument:	MS-VOA3
		Calibration:	1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05006-CCV1) ug/L				Lab File ID: 0217CCVE.D		Analyzed: 02/17/11 21:07		
Bromofluorobenzene	30.00	98.8	80 - 120	16.983	16.983	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	9.926	9.926	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	11.003	11.003	0.0000	+/-1.000	
Toluene-d8	30.00	95.5	80 - 120	14.635	14.635	0.0000	+/-1.000	
LCS (1B17009-BS1) ug/L				Lab File ID: 0217LS1E.D		Analyzed: 02/17/11 21:37		
Bromofluorobenzene	30.00	101	75 - 120	16.983	16.983	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	11.003	11.003	0.0000	+/-1.000	
Toluene-d8	30.00	99.8	85 - 120	14.635	14.635	0.0000	+/-1.000	
Blank (1B17009-BLK1) ug/L				Lab File ID: 0217BL1E.D		Analyzed: 02/17/11 23:03		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.997	11.003	-0.0060	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	14.635	14.635	0.0000	+/-1.000	
GW8013-TB (1102135-07) ug/L				Lab File ID: 0213507.D		Analyzed: 02/18/11 00:33		
Bromofluorobenzene	30.00	104	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.926	9.926	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.4	70 - 120	10.997	11.003	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.635	14.635	0.0000	+/-1.000	
GW0020 (1102135-03) ug/L				Lab File ID: 0213503.D		Analyzed: 02/18/11 06:00		
Bromofluorobenzene	30.00	106	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	10.99	11.003	-0.0130	+/-1.000	
Toluene-d8	30.00	99.3	85 - 120	14.635	14.635	0.0000	+/-1.000	
GW0021 (1102135-05) ug/L				Lab File ID: 0213505.D		Analyzed: 02/18/11 06:30		
Bromofluorobenzene	30.00	104	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.914	9.926	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.991	11.003	-0.0120	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	14.635	14.635	0.0000	+/-1.000	
LCS Dup (1B17009-BSD1) ug/L				Lab File ID: 0217LCSDE.D		Analyzed: 02/18/11 07:29		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.99	11.003	-0.0130	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	14.628	14.635	-0.0070	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05201	Instrument:	MS-VOA3
		Calibration:	1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05201-CCV1) ug/L				Lab File ID: 0219CCV1.D		Analyzed: 02/19/11 11:20		
Bromofluorobenzene	30.00	102	80 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	9.889	9.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.972	10.972	0.0000	+/-1.000	
Toluene-d8	30.00	96.3	80 - 120	14.623	14.623	0.0000	+/-1.000	
LCS (1B19002-BS1) ug/L				Lab File ID: 0219LS1.D		Analyzed: 02/19/11 12:08		
Bromofluorobenzene	30.00	99.6	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.889	9.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.972	10.972	0.0000	+/-1.000	
Toluene-d8	30.00	95.8	85 - 120	14.622	14.623	-0.0010	+/-1.000	
Blank (1B19002-BLK1) ug/L				Lab File ID: 0219BL1.D		Analyzed: 02/19/11 13:35		
Bromofluorobenzene	30.00	105	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.889	9.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.978	10.972	0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.622	14.623	-0.0010	+/-1.000	
GW0019 (1102135-01RE1) ug/L				Lab File ID: 0213501.D		Analyzed: 02/19/11 15:04		
Bromofluorobenzene	30.00	105	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	9.896	9.889	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	10.972	10.972	0.0000	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	14.622	14.623	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05303
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05303-CCV1) ug/L				Lab File ID: 0218CC1.D		Analyzed: 02/18/11 08:43		
Bromofluorobenzene	30.00	95.0	80 - 120	17.652	17.652	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	11.198	11.198	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	90.4	80 - 120	12.006	12.006	0.0000	+/-1.000	
Toluene-d8	30.00	86.3	80 - 120	15.326	15.326	0.0000	+/-1.000	
LCS (1B18011-BS1) ug/L				Lab File ID: 0218LS1.D		Analyzed: 02/18/11 09:25		
Bromofluorobenzene	30.00	101	75 - 120	17.649	17.652	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.205	11.198	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.003	12.006	-0.0030	+/-1.000	
Toluene-d8	30.00	95.3	85 - 120	15.324	15.326	-0.0020	+/-1.000	
Blank (1B18011-BLK1) ug/L				Lab File ID: 0218BL1.D		Analyzed: 02/18/11 10:53		
Bromofluorobenzene	30.00	105	75 - 120	17.651	17.652	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.197	11.198	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	12.005	12.006	-0.0010	+/-1.000	
Toluene-d8	30.00	95.3	85 - 120	15.326	15.326	0.0000	+/-1.000	
GW8014-TB (1102141-07) ug/L				Lab File ID: 0214107.D		Analyzed: 02/18/11 11:23		
Bromofluorobenzene	30.00	101	75 - 120	17.656	17.652	0.0040	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	11.202	11.198	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12	12.006	-0.0060	+/-1.000	
Toluene-d8	30.00	96.5	85 - 120	15.331	15.326	0.0050	+/-1.000	
GW8002-RB (1102141-04) ug/L				Lab File ID: 0214104.D		Analyzed: 02/18/11 12:24		
Bromofluorobenzene	30.00	105	75 - 120	17.646	17.652	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	11.201	11.198	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	11.999	12.006	-0.0070	+/-1.000	
Toluene-d8	30.00	99.1	85 - 120	15.33	15.326	0.0040	+/-1.000	
GW8002-AB (1102141-03) ug/L				Lab File ID: 0214103.D		Analyzed: 02/18/11 12:54		
Bromofluorobenzene	30.00	103	75 - 120	17.657	17.652	0.0050	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	11.203	11.198	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.001	12.006	-0.0050	+/-1.000	
Toluene-d8	30.00	96.8	85 - 120	15.331	15.326	0.0050	+/-1.000	
GW0022 (1102141-01) ug/L				Lab File ID: 0214101.D		Analyzed: 02/18/11 15:56		
Bromofluorobenzene	30.00	104	75 - 120	17.65	17.652	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.195	11.198	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	11.994	12.006	-0.0120	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.324	15.326	-0.0020	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05303	Instrument:	MS-VOA5
		Calibration:	0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1B18011-BSD1) ug/L				Lab File ID: 0218LD1.D		Analyzed: 02/18/11 20:27		
Bromofluorobenzene	30.00	101	75 - 120	17.646	17.652	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.192	11.198	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12	12.006	-0.0060	+/-1.000	
Toluene-d8	30.00	93.7	85 - 120	15.321	15.326	-0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05312	Instrument:	MS-VOA5
		Calibration:	0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05312-CCV1) ug/L				Lab File ID: 0221CC1.D		Analyzed: 02/21/11 08:35		
Bromofluorobenzene	30.00	97.1	80 - 120	17.667	17.667	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	11.233	11.233	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.2	80 - 120	12.031	12.031	0.0000	+/-1.000	
Toluene-d8	30.00	90.5	80 - 120	15.352	15.352	0.0000	+/-1.000	
LCS (1B21012-BS1) ug/L				Lab File ID: 0221LS1.D		Analyzed: 02/21/11 09:05		
Bromofluorobenzene	30.00	96.8	75 - 120	17.666	17.667	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	11.232	11.233	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.7	70 - 120	12.03	12.031	-0.0010	+/-1.000	
Toluene-d8	30.00	94.1	85 - 120	15.35	15.352	-0.0020	+/-1.000	
Blank (1B21012-BLK1) ug/L				Lab File ID: 0221BL1.D		Analyzed: 02/21/11 10:33		
Bromofluorobenzene	30.00	97.1	75 - 120	17.662	17.667	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.238	11.233	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	12.026	12.031	-0.0050	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	15.347	15.352	-0.0050	+/-1.000	
GW8015-TB (1102166-05) ug/L				Lab File ID: 0216605.D		Analyzed: 02/21/11 11:07		
Bromofluorobenzene	30.00	100	75 - 120	17.662	17.667	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	11.238	11.233	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	12.036	12.031	0.0050	+/-1.000	
Toluene-d8	30.00	101	85 - 120	15.347	15.352	-0.0050	+/-1.000	
LCS Dup (1B21012-BSD1) ug/L				Lab File ID: 0221LD1.D		Analyzed: 02/21/11 20:12		
Bromofluorobenzene	30.00	101	75 - 120	17.666	17.667	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	11.232	11.233	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	12.03	12.031	-0.0010	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	15.341	15.352	-0.0110	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05401	Instrument:	MS-VOA3
		Calibration:	1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05401-CCV1) ug/L				Lab File ID: 0222CCV1.D		Analyzed: 02/22/11 07:49		
Bromofluorobenzene	30.00	98.3	80 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	9.92	9.92	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	10.997	10.997	0.0000	+/-1.000	
Toluene-d8	30.00	95.6	80 - 120	14.635	14.635	0.0000	+/-1.000	
LCS (1B22009-BS1) ug/L				Lab File ID: 0222LS1.D		Analyzed: 02/22/11 08:19		
Bromofluorobenzene	30.00	98.9	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	9.914	9.92	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.997	10.997	0.0000	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	14.629	14.635	-0.0060	+/-1.000	
Blank (1B22009-BLK1) ug/L				Lab File ID: 0222BL1.D		Analyzed: 02/22/11 09:45		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.914	9.92	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.985	10.997	-0.0120	+/-1.000	
Toluene-d8	30.00	97.1	85 - 120	14.629	14.635	-0.0060	+/-1.000	
GW0011 (1102166-01) ug/L				Lab File ID: 0216601D.D		Analyzed: 02/22/11 16:43		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	9.908	9.92	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.991	10.997	-0.0060	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	14.629	14.635	-0.0060	+/-1.000	
GW0031 (1102166-03) ug/L				Lab File ID: 0216603D.D		Analyzed: 02/22/11 17:12		
Bromofluorobenzene	30.00	105	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.914	9.92	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.7	70 - 120	10.991	10.997	-0.0060	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	14.629	14.635	-0.0060	+/-1.000	
Matrix Spike (1B22009-MS1) ug/L				Lab File ID: 0216601M.D		Analyzed: 02/22/11 18:12		
Bromofluorobenzene	30.00	99.3	75 - 120	16.971	16.977	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.895	9.92	-0.0250	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.984	10.997	-0.0130	+/-1.000	
Toluene-d8	30.00	92.7	85 - 120	14.628	14.635	-0.0070	+/-1.000	
Matrix Spike Dup (1B22009-MSD1) ug/L				Lab File ID: 0216601S.D		Analyzed: 02/22/11 18:42		
Bromofluorobenzene	30.00	102	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	9.902	9.92	-0.0180	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	10.985	10.997	-0.0120	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	14.629	14.635	-0.0060	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05514	Instrument:	MS-VOA5
		Calibration:	0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05514-CCV1) ug/L				Lab File ID: 0223CC1.D		Analyzed: 02/23/11 10:28		
Bromofluorobenzene	30.00	94.5	80 - 120	17.649	17.649	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	11.195	11.195	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	12.003	12.003	0.0000	+/-1.000	
Toluene-d8	30.00	85.8	80 - 120	15.323	15.323	0.0000	+/-1.000	
LCS (1B23016-BS1) ug/L				Lab File ID: 0223LS1.D		Analyzed: 02/23/11 10:59		
Bromofluorobenzene	30.00	95.0	75 - 120	17.646	17.649	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.202	11.195	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12	12.003	-0.0030	+/-1.000	
Toluene-d8	30.00	93.5	85 - 120	15.32	15.323	-0.0030	+/-1.000	
Blank (1B23016-BLK1) ug/L				Lab File ID: 0223BL1.D		Analyzed: 02/23/11 12:57		
Bromofluorobenzene	30.00	103	75 - 120	17.653	17.649	0.0040	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.209	11.195	0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	12.007	12.003	0.0040	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	15.337	15.323	0.0140	+/-1.000	
GW8016-TB (1102174-11) ug/L				Lab File ID: 0217411.D		Analyzed: 02/23/11 13:27		
Bromofluorobenzene	30.00	103	75 - 120	17.653	17.649	0.0040	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	11.198	11.195	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	12.006	12.003	0.0030	+/-1.000	
Toluene-d8	30.00	99.7	85 - 120	15.327	15.323	0.0040	+/-1.000	
LCS Dup (1B23016-BSD1) ug/L				Lab File ID: 0223LD1.D		Analyzed: 02/23/11 22:01		
Bromofluorobenzene	30.00	105	75 - 120	17.653	17.649	0.0040	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	11.209	11.195	0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	12.007	12.003	0.0040	+/-1.000	
Toluene-d8	30.00	92.9	85 - 120	15.328	15.323	0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05611	Instrument:	MS-VOA5
		Calibration:	0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05611-CCV1) ug/L				Lab File ID: 0224CC1.D		Analyzed: 02/24/11 06:55		
Bromofluorobenzene	30.00	95.5	80 - 120	17.656	17.656	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	11.212	11.212	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.3	80 - 120	12.01	12.01	0.0000	+/-1.000	
Toluene-d8	30.00	90.1	80 - 120	15.341	15.341	0.0000	+/-1.000	
LCS (1B24002-BS1) ug/L				Lab File ID: 0224LS1.D		Analyzed: 02/24/11 07:25		
Bromofluorobenzene	30.00	99.2	75 - 120	17.657	17.656	0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	11.222	11.212	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	12.011	12.01	0.0010	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	15.331	15.341	-0.0100	+/-1.000	
Blank (1B24002-BLK1) ug/L				Lab File ID: 0224BL1.D		Analyzed: 02/24/11 08:54		
Bromofluorobenzene	30.00	102	75 - 120	17.653	17.656	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	11.218	11.212	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.016	12.01	0.0060	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.337	15.341	-0.0040	+/-1.000	
GW8017-TB (1102179-03) ug/L				Lab File ID: 0217903.D		Analyzed: 02/24/11 09:24		
Bromofluorobenzene	30.00	99.5	75 - 120	17.657	17.656	0.0010	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	11.222	11.212	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	12.01	12.01	0.0000	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	15.331	15.341	-0.0100	+/-1.000	
GW0009 (1102179-01) ug/L				Lab File ID: 0217901D.D		Analyzed: 02/24/11 16:28		
Bromofluorobenzene	30.00	108	75 - 120	17.666	17.656	0.0100	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.242	11.212	0.0300	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.9	70 - 120	12.03	12.01	0.0200	+/-1.000	
Toluene-d8	30.00	94.2	85 - 120	15.351	15.341	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05612	Instrument:	MS-VOA5
		Calibration:	0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05612-CCV1) ug/L				Lab File ID: 0224CC1E.D		Analyzed: 02/24/11 19:30		
Bromofluorobenzene	30.00	93.4	80 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	110	80 - 120	11.242	11.242	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.9	80 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	89.8	80 - 120	15.361	15.361	0.0000	+/-1.000	
LCS (1B24021-BS1) ug/L				Lab File ID: 0224LS1E.D		Analyzed: 02/24/11 20:00		
Bromofluorobenzene	30.00	97.6	75 - 120	17.672	17.677	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	11.248	11.242	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.036	12.04	-0.0040	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	15.357	15.361	-0.0040	+/-1.000	
Blank (1B24021-BLK1) ug/L				Lab File ID: 0224BL1E.D		Analyzed: 02/24/11 21:28		
Bromofluorobenzene	30.00	101	75 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.252	11.242	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	12.05	12.04	0.0100	+/-1.000	
Toluene-d8	30.00	99.7	85 - 120	15.361	15.361	0.0000	+/-1.000	
GW0036 (1102174-05) ug/L				Lab File ID: 0217405.D		Analyzed: 02/24/11 22:28		
Bromofluorobenzene	30.00	101	75 - 120	17.678	17.677	0.0010	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.244	11.242	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	12.032	12.04	-0.0080	+/-1.000	
Toluene-d8	30.00	95.0	85 - 120	15.353	15.361	-0.0080	+/-1.000	
GW0037 (1102174-07) ug/L				Lab File ID: 0217407.D		Analyzed: 02/24/11 22:59		
Bromofluorobenzene	30.00	103	75 - 120	17.679	17.677	0.0020	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	11.244	11.242	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	12.043	12.04	0.0030	+/-1.000	
Toluene-d8	30.00	97.9	85 - 120	15.353	15.361	-0.0080	+/-1.000	
GW0038 (1102174-09) ug/L				Lab File ID: 0217409.D		Analyzed: 02/24/11 23:29		
Bromofluorobenzene	30.00	103	75 - 120	17.678	17.677	0.0010	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	11.244	11.242	0.0020	+/-1.000	*
1,2-Dichloroethane-d4	30.00	109	70 - 120	12.042	12.04	0.0020	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	15.353	15.361	-0.0080	+/-1.000	
GW0010 (1102174-01) ug/L				Lab File ID: 0217401D.D		Analyzed: 02/24/11 23:59		
Bromofluorobenzene	30.00	109	75 - 120	17.672	17.677	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	11.247	11.242	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.7	70 - 120	12.045	12.04	0.0050	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.356	15.361	-0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05612	Instrument:	MS-VOA5
		Calibration:	0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0015 (1102174-03) ug/L				Lab File ID: 0217403D.D		Analyzed: 02/25/11 00:29		
Bromofluorobenzene	30.00	109	75 - 120	17.681	17.677	0.0040	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.246	11.242	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.0	70 - 120	12.045	12.04	0.0050	+/-1.000	
Toluene-d8	30.00	99.0	85 - 120	15.355	15.361	-0.0060	+/-1.000	
LCS Dup (1B24021-BSD1) ug/L				Lab File ID: 0224LD1E.D		Analyzed: 02/25/11 02:30		
Bromofluorobenzene	30.00	103	75 - 120	17.667	17.677	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	11.242	11.242	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.9	70 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	15.351	15.361	-0.0100	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17009	Laboratory ID:	1B17009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	110	110	40 - 140
Benzene	50.00	52.9	106	80 - 120
Bromobenzene	50.00	52.9	106	75 - 125
Bromochloromethane	50.00	55.2	110	65 - 130
Bromodichloromethane	**50.00**	**66.8**	**134**	**75 - 120**
Bromoform	50.00	58.0	116	70 - 130
Bromomethane	50.00	24.8	49.7	30 - 145
n-Butylbenzene	50.00	52.2	104	70 - 135
2-Butanone	100.0	98.1	98.1	30 - 150
sec-Butylbenzene	50.00	54.0	108	70 - 125
tert-Butylbenzene	50.00	54.2	108	70 - 130
Carbon disulfide	50.00	60.1	120	35 - 160
Carbon tetrachloride	50.00	61.9	124	65 - 140
Chlorobenzene	50.00	53.7	107	80 - 120
Chloroethane	50.00	57.6	115	60 - 135
Chloroform	50.00	55.4	111	65 - 135
Chloromethane	50.00	52.5	105	40 - 125
2-Chlorotoluene	50.00	53.3	107	75 - 125
4-Chlorotoluene	50.00	54.2	108	75 - 130
Dibromochloromethane	50.00	59.5	119	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.3	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.1	110	80 - 120
Dibromomethane	50.00	56.8	114	75 - 125
1,2-Dichlorobenzene	50.00	53.3	107	70 - 120
1,3-Dichlorobenzene	50.00	52.2	104	75 - 125
1,4-Dichlorobenzene	50.00	51.3	103	75 - 125
Dichlorodifluoromethane	**50.00**	**83.6**	**167**	**30 - 155**
1,1-Dichloroethane	50.00	54.7	109	70 - 135
1,2-Dichloroethane	50.00	58.6	117	70 - 130
1,1-Dichloroethene	50.00	60.4	121	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17009	Laboratory ID:	1B17009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	52.7	105	70 - 125
trans-1,2-Dichloroethene	50.00	54.6	109	60 - 140
1,2-Dichloropropane	50.00	52.4	105	75 - 125
1,3-Dichloropropane	50.00	52.0	104	75 - 125
2,2-Dichloropropane	50.00	47.2	94.4	70 - 135
1,1-Dichloropropene	50.00	56.3	113	75 - 130
cis-1,3-Dichloropropene	50.00	51.7	103	70 - 130
trans-1,3-Dichloropropene	50.00	60.1	120	55 - 140
Ethylbenzene	50.00	52.9	106	75 - 125
Hexachlorobutadiene	50.00	55.2	110	50 - 140
2-Hexanone	100.0	95.5	95.5	55 - 130
Isopropylbenzene	50.00	57.2	114	75 - 125
p-Isopropyltoluene	50.00	53.7	107	75 - 130
Methylene chloride	50.00	51.9	104	55 - 140
Naphthalene	50.00	52.6	105	55 - 140
4-Methyl-2-pentanone	100.0	109	109	60 - 135
Methyl t-Butyl Ether	100.0	108	108	65 - 125
n-Propylbenzene	50.00	54.9	110	70 - 130
Styrene	50.00	54.7	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.0	102	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**66.4**	**133**	**80 - 130**
Tetrachloroethene	50.00	53.8	108	45 - 150
Toluene	50.00	51.2	102	75 - 120
1,2,3-Trichlorobenzene	50.00	49.3	98.5	55 - 140
1,2,4-Trichlorobenzene	50.00	48.8	97.6	65 - 135
1,1,2-Trichloroethane	50.00	52.4	105	75 - 125
1,1,1-Trichloroethane	50.00	61.0	122	65 - 130
Trichloroethene	50.00	56.3	113	70 - 125
Trichlorofluoromethane	50.00	66.8	134	60 - 145
1,2,3-Trichloropropane	50.00	57.8	116	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17009	Laboratory ID:	1B17009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	53.1	106	75 - 130
1,2,4-Trimethylbenzene	50.00	53.7	107	75 - 130
Vinyl chloride	50.00	59.9	120	50 - 145
m,p-Xylene	100.0	99.6	99.6	75 - 130
o-Xylene	50.00	51.1	102	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	121	121	10.0	30	40 - 140
Benzene	50.00	51.9	104	1.79	30	80 - 120
Bromobenzene	50.00	52.5	105	0.764	30	75 - 125
Bromochloromethane	50.00	55.7	111	1.01	30	65 - 130
Bromodichloromethane	**50.00**	**65.4**	**131 ***	**2.00**	**30**	**75 - 120**
Bromoform	50.00	55.0	110	5.34	30	70 - 130
Bromomethane	50.00	20.4	40.8	19.6	30	30 - 145
n-Butylbenzene	50.00	51.2	102	1.94	30	70 - 135
2-Butanone	100.0	102	102	3.96	30	30 - 150
sec-Butylbenzene	50.00	52.8	106	2.19	30	70 - 125
tert-Butylbenzene	50.00	53.5	107	1.31	30	70 - 130
Carbon disulfide	50.00	57.8	116	3.94	30	35 - 160
Carbon tetrachloride	50.00	57.5	115	7.40	30	65 - 140
Chlorobenzene	50.00	53.9	108	0.305	30	80 - 120
Chloroethane	50.00	56.2	112	2.48	30	60 - 135
Chloroform	50.00	55.7	111	0.630	30	65 - 135
Chloromethane	50.00	53.0	106	1.02	30	40 - 125
2-Chlorotoluene	50.00	52.8	106	1.02	30	75 - 125
4-Chlorotoluene	50.00	53.6	107	1.10	30	75 - 130
Dibromochloromethane	50.00	56.2	112	5.62	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.6	95.1	7.63	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.0	110	0.159	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17009	Laboratory ID:	1B17009-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	57.9	116	1.94	30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	1.20	30	70 - 120
1,3-Dichlorobenzene	50.00	53.5	107	2.30	30	75 - 125
1,4-Dichlorobenzene	50.00	49.8	99.6	2.93	30	75 - 125
Dichlorodifluoromethane	50.00	74.5	149	11.4	30	30 - 155
1,1-Dichloroethane	50.00	55.0	110	0.518	30	70 - 135
1,2-Dichloroethane	50.00	61.1	122	4.14	30	70 - 130
1,1-Dichloroethene	50.00	56.8	114	6.23	30	70 - 130
cis-1,2-Dichloroethene	50.00	52.0	104	1.30	30	70 - 125
trans-1,2-Dichloroethene	50.00	54.1	108	0.780	30	60 - 140
1,2-Dichloropropane	50.00	52.0	104	0.774	30	75 - 125
1,3-Dichloropropane	50.00	53.4	107	2.71	30	75 - 125
2,2-Dichloropropane	50.00	36.0	72.0	26.9	30	70 - 135
1,1-Dichloropropene	50.00	54.9	110	2.65	30	75 - 130
cis-1,3-Dichloropropene	50.00	48.8	97.7	5.73	30	70 - 130
trans-1,3-Dichloropropene	50.00	56.6	113	5.99	30	55 - 140
Ethylbenzene	50.00	54.7	109	3.35	30	75 - 125
Hexachlorobutadiene	50.00	48.0	96.0	14.0	30	50 - 140
2-Hexanone	100.0	108	108	11.9	30	55 - 130
Isopropylbenzene	50.00	57.7	115	0.929	30	75 - 125
p-Isopropyltoluene	50.00	53.2	106	0.819	30	75 - 130
Methylene chloride	50.00	52.8	106	1.58	30	55 - 140
Naphthalene	50.00	51.0	102	3.11	30	55 - 140
4-Methyl-2-pentanone	100.0	121	121	10.1	30	60 - 135
Methyl t-Butyl Ether	100.0	106	106	1.47	30	65 - 125
n-Propylbenzene	50.00	54.3	109	0.977	30	70 - 130
Styrene	50.00	56.6	113	3.40	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.9	99.9	2.06	30	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**65.7**	**131 ***	**1.14**	**30**	**80 - 130**
Tetrachloroethene	50.00	52.8	106	1.91	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17009	Laboratory ID:	1B17009-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	51.2	102	0.0937	30	75 - 120
1,2,3-Trichlorobenzene	50.00	48.2	96.5	2.08	30	55 - 140
1,2,4-Trichlorobenzene	50.00	47.3	94.5	3.24	30	65 - 135
1,1,2-Trichloroethane	50.00	50.6	101	3.58	30	75 - 125
1,1,1-Trichloroethane	50.00	60.0	120	1.65	30	65 - 130
Trichloroethene	50.00	56.7	113	0.744	30	70 - 125
Trichlorofluoromethane	50.00	58.7	117	12.9	30	60 - 145
1,2,3-Trichloropropane	50.00	56.2	112	2.94	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.6	107	0.865	30	75 - 130
1,2,4-Trimethylbenzene	50.00	54.2	108	0.941	30	75 - 130
Vinyl chloride	50.00	56.5	113	5.70	30	50 - 145
m,p-Xylene	100.0	100	100	0.424	30	75 - 130
o-Xylene	50.00	52.5	105	2.65	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18011	Laboratory ID:	1B18011-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	112	112	40 - 140
Benzene	50.00	52.4	105	80 - 120
Bromobenzene	50.00	55.0	110	75 - 125
Bromochloromethane	50.00	58.9	118	65 - 130
Bromodichloromethane	**50.00**	**61.7**	**123**	**75 - 120**
Bromoform	**50.00**	**65.3**	**131**	**70 - 130**
Bromomethane	50.00	55.5	111	30 - 145
n-Butylbenzene	50.00	50.7	101	70 - 135
2-Butanone	100.0	98.6	98.6	30 - 150
sec-Butylbenzene	50.00	52.3	105	70 - 125
tert-Butylbenzene	50.00	55.0	110	70 - 130
Carbon disulfide	50.00	51.7	103	35 - 160
Carbon tetrachloride	50.00	61.6	123	65 - 140
Chlorobenzene	50.00	50.6	101	80 - 120
Chloroethane	50.00	56.6	113	60 - 135
Chloroform	50.00	56.3	113	65 - 135
Chloromethane	50.00	54.8	110	40 - 125
2-Chlorotoluene	50.00	51.8	104	75 - 125
4-Chlorotoluene	50.00	51.9	104	75 - 130
Dibromochloromethane	50.00	60.8	122	60 - 135
1,2-Dibromo-3-chloropropane	50.00	57.3	115	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.7	109	80 - 120
Dibromomethane	50.00	57.4	115	75 - 125
1,2-Dichlorobenzene	50.00	52.9	106	70 - 120
1,3-Dichlorobenzene	50.00	50.9	102	75 - 125
1,4-Dichlorobenzene	50.00	51.6	103	75 - 125
Dichlorodifluoromethane	50.00	60.2	120	30 - 155
1,1-Dichloroethane	50.00	56.2	112	70 - 135
1,2-Dichloroethane	50.00	64.0	128	70 - 130
1,1-Dichloroethene	50.00	59.7	119	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18011	Laboratory ID:	1B18011-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	56.5	113	70 - 125
trans-1,2-Dichloroethene	50.00	54.8	110	60 - 140
1,2-Dichloropropane	50.00	51.6	103	75 - 125
1,3-Dichloropropane	50.00	50.7	101	75 - 125
2,2-Dichloropropane	50.00	57.9	116	70 - 135
1,1-Dichloropropene	50.00	59.7	119	75 - 130
cis-1,3-Dichloropropene	50.00	55.4	111	70 - 130
trans-1,3-Dichloropropene	50.00	63.1	126	55 - 140
Ethylbenzene	50.00	53.2	106	75 - 125
Hexachlorobutadiene	50.00	62.4	125	50 - 140
2-Hexanone	100.0	94.8	94.8	55 - 130
Isopropylbenzene	50.00	58.2	116	75 - 125
p-Isopropyltoluene	50.00	55.6	111	75 - 130
Methylene chloride	50.00	56.2	112	55 - 140
Naphthalene	50.00	52.7	105	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	100.0	121	121	65 - 125
n-Propylbenzene	50.00	52.0	104	70 - 130
Styrene	50.00	55.7	111	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.1	98.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	57.1	114	80 - 130
Tetrachloroethene	50.00	56.4	113	45 - 150
Toluene	50.00	51.6	103	75 - 120
1,2,3-Trichlorobenzene	50.00	52.3	105	55 - 140
1,2,4-Trichlorobenzene	50.00	52.7	105	65 - 135
1,1,2-Trichloroethane	50.00	49.6	99.1	75 - 125
1,1,1-Trichloroethane	50.00	60.4	121	65 - 130
Trichloroethene	50.00	55.3	111	70 - 125
Trichlorofluoromethane	50.00	59.7	119	60 - 145
1,2,3-Trichloropropane	50.00	55.2	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18011	Laboratory ID:	1B18011-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.2	108	75 - 130
1,2,4-Trimethylbenzene	50.00	54.6	109	75 - 130
Vinyl chloride	50.00	54.4	109	50 - 145
m,p-Xylene	100.0	107	107	75 - 130
o-Xylene	50.00	52.7	105	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	116	116	2.96	30	40 - 140
Benzene	50.00	54.2	108	3.52	30	80 - 120
Bromobenzene	50.00	55.0	110	0.156	30	75 - 125
Bromochloromethane	50.00	58.5	117	0.759	30	65 - 130
Bromodichloromethane	**50.00**	**63.4**	**127 ***	**2.80**	**30**	**75 - 120**
Bromoform	50.00	64.1	128	1.87	30	70 - 130
Bromomethane	50.00	53.9	108	3.00	30	30 - 145
n-Butylbenzene	50.00	50.6	101	0.0478	30	70 - 135
2-Butanone	100.0	94.0	94.0	4.80	30	30 - 150
sec-Butylbenzene	50.00	49.0	98.0	6.45	30	70 - 125
tert-Butylbenzene	50.00	52.1	104	5.41	30	70 - 130
Carbon disulfide	50.00	52.3	105	1.13	30	35 - 160
Carbon tetrachloride	50.00	63.8	128	3.50	30	65 - 140
Chlorobenzene	50.00	50.1	100	1.03	30	80 - 120
Chloroethane	50.00	57.8	116	2.06	30	60 - 135
Chloroform	50.00	58.1	116	3.12	30	65 - 135
Chloromethane	50.00	56.3	113	2.72	30	40 - 125
2-Chlorotoluene	50.00	49.5	99.0	4.44	30	75 - 125
4-Chlorotoluene	50.00	53.0	106	2.12	30	75 - 130
Dibromochloromethane	50.00	60.6	121	0.236	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.7	103	10.2	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.6	107	2.06	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18011	Laboratory ID:	1B18011-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	59.1	118	2.95	30	75 - 125
1,2-Dichlorobenzene	50.00	52.8	106	0.129	30	70 - 120
1,3-Dichlorobenzene	50.00	52.1	104	2.41	30	75 - 125
1,4-Dichlorobenzene	50.00	49.5	99.1	4.12	30	75 - 125
Dichlorodifluoromethane	50.00	63.9	128	5.92	30	30 - 155
1,1-Dichloroethane	50.00	56.6	113	0.638	30	70 - 135
1,2-Dichloroethane	**50.00**	**65.6**	**131 ***	**2.51**	**30**	**70 - 130**
1,1-Dichloroethene	50.00	61.7	123	3.29	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.9	112	1.06	30	70 - 125
trans-1,2-Dichloroethene	50.00	53.4	107	2.55	30	60 - 140
1,2-Dichloropropane	50.00	54.0	108	4.45	30	75 - 125
1,3-Dichloropropane	50.00	50.0	100	1.30	30	75 - 125
2,2-Dichloropropane	50.00	51.0	102	12.6	30	70 - 135
1,1-Dichloropropene	50.00	58.6	117	1.96	30	75 - 130
cis-1,3-Dichloropropene	50.00	56.6	113	2.19	30	70 - 130
trans-1,3-Dichloropropene	50.00	59.9	120	5.30	30	55 - 140
Ethylbenzene	50.00	51.3	103	3.65	30	75 - 125
Hexachlorobutadiene	50.00	55.6	111	11.6	30	50 - 140
2-Hexanone	100.0	95.6	95.6	0.925	30	55 - 130
Isopropylbenzene	50.00	59.2	118	1.71	30	75 - 125
p-Isopropyltoluene	50.00	54.8	110	1.44	30	75 - 130
Methylene chloride	50.00	56.5	113	0.559	30	55 - 140
Naphthalene	50.00	48.2	96.4	8.83	30	55 - 140
4-Methyl-2-pentanone	100.0	108	108	3.51	30	60 - 135
Methyl t-Butyl Ether	100.0	118	118	2.22	30	65 - 125
n-Propylbenzene	50.00	50.5	101	2.85	30	70 - 130
Styrene	50.00	55.2	110	0.986	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.6	95.2	3.12	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.8	112	2.30	30	80 - 130
Tetrachloroethene	50.00	54.5	109	3.48	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18011	Laboratory ID:	1B18011-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	50.1	100	2.89	30	75 - 120
1,2,3-Trichlorobenzene	50.00	47.7	95.4	9.28	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.6	101	4.02	30	65 - 135
1,1,2-Trichloroethane	50.00	49.0	98.1	1.05	30	75 - 125
1,1,1-Trichloroethane	50.00	60.6	121	0.335	30	65 - 130
Trichloroethene	50.00	57.9	116	4.46	30	70 - 125
Trichlorofluoromethane	50.00	61.5	123	2.98	30	60 - 145
1,2,3-Trichloropropane	50.00	52.4	105	5.30	30	75 - 125
1,3,5-Trimethylbenzene	50.00	54.7	109	0.848	30	75 - 130
1,2,4-Trimethylbenzene	50.00	54.6	109	0.165	30	75 - 130
Vinyl chloride	50.00	56.6	113	3.98	30	50 - 145
m,p-Xylene	100.0	105	105	2.28	30	75 - 130
o-Xylene	50.00	52.2	104	0.904	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B19002	Laboratory ID:	1B19002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	116	116	40 - 140
Benzene	50.00	52.2	104	80 - 120
Bromobenzene	50.00	52.6	105	75 - 125
Bromochloromethane	50.00	56.1	112	65 - 130
Bromodichloromethane	**50.00**	**69.8**	**140**	**75 - 120**
Bromoform	50.00	60.8	122	70 - 130
Bromomethane	50.00	27.4	54.7	30 - 145
n-Butylbenzene	50.00	52.0	104	70 - 135
2-Butanone	100.0	96.7	96.7	30 - 150
sec-Butylbenzene	50.00	52.8	106	70 - 125
tert-Butylbenzene	50.00	54.4	109	70 - 130
Carbon disulfide	50.00	58.9	118	35 - 160
Carbon tetrachloride	50.00	64.4	129	65 - 140
Chlorobenzene	50.00	53.4	107	80 - 120
Chloroethane	50.00	60.8	122	60 - 135
Chloroform	50.00	56.2	112	65 - 135
Chloromethane	50.00	55.6	111	40 - 125
2-Chlorotoluene	50.00	51.0	102	75 - 125
4-Chlorotoluene	50.00	53.2	106	75 - 130
Dibromochloromethane	50.00	61.3	123	60 - 135
1,2-Dibromo-3-chloropropane	50.00	53.5	107	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.6	109	80 - 120
Dibromomethane	50.00	57.6	115	75 - 125
1,2-Dichlorobenzene	50.00	54.2	108	70 - 120
1,3-Dichlorobenzene	50.00	52.6	105	75 - 125
1,4-Dichlorobenzene	50.00	51.7	103	75 - 125
Dichlorodifluoromethane	**50.00**	**95.1**	**190**	**30 - 155**
1,1-Dichloroethane	50.00	54.5	109	70 - 135
1,2-Dichloroethane	50.00	61.4	123	70 - 130
1,1-Dichloroethene	50.00	59.1	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B19002	Laboratory ID:	1B19002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	52.9	106	70 - 125
trans-1,2-Dichloroethene	50.00	54.7	109	60 - 140
1,2-Dichloropropane	50.00	53.7	107	75 - 125
1,3-Dichloropropane	50.00	52.4	105	75 - 125
2,2-Dichloropropane	50.00	57.1	114	70 - 135
1,1-Dichloropropene	50.00	56.4	113	75 - 130
cis-1,3-Dichloropropene	50.00	56.0	112	70 - 130
trans-1,3-Dichloropropene	50.00	61.8	124	55 - 140
Ethylbenzene	50.00	52.7	105	75 - 125
Hexachlorobutadiene	50.00	54.5	109	50 - 140
2-Hexanone	100.0	95.2	95.2	55 - 130
Isopropylbenzene	50.00	56.7	113	75 - 125
p-Isopropyltoluene	50.00	53.4	107	75 - 130
Methylene chloride	50.00	53.3	107	55 - 140
Naphthalene	50.00	51.8	104	55 - 140
4-Methyl-2-pentanone	100.0	115	115	60 - 135
Methyl t-Butyl Ether	100.0	112	112	65 - 125
n-Propylbenzene	50.00	53.2	106	70 - 130
Styrene	50.00	55.2	110	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.5	99.0	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**66.7**	**133**	**80 - 130**
Tetrachloroethene	50.00	51.9	104	45 - 150
Toluene	50.00	49.6	99.2	75 - 120
1,2,3-Trichlorobenzene	50.00	48.4	96.9	55 - 140
1,2,4-Trichlorobenzene	50.00	48.4	96.7	65 - 135
1,1,2-Trichloroethane	50.00	51.0	102	75 - 125
1,1,1-Trichloroethane	50.00	63.2	126	65 - 130
Trichloroethene	50.00	57.2	114	70 - 125
Trichlorofluoromethane	50.00	67.3	135	60 - 145
1,2,3-Trichloropropane	50.00	55.9	112	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B19002	Laboratory ID:	1B19002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.5	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.8	108	75 - 130
Vinyl chloride	50.00	61.3	123	50 - 145
m,p-Xylene	100.0	97.3	97.3	75 - 130
o-Xylene	50.00	50.5	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21012	Laboratory ID:	1B21012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	118	118	40 - 140
Benzene	50.00	52.7	105	80 - 120
Bromobenzene	50.00	55.0	110	75 - 125
Bromochloromethane	50.00	55.1	110	65 - 130
Bromodichloromethane	50.00	58.2	116	75 - 120
Bromoform	50.00	62.5	125	70 - 130
Bromomethane	50.00	52.6	105	30 - 145
n-Butylbenzene	50.00	52.9	106	70 - 135
2-Butanone	100.0	101	101	30 - 150
sec-Butylbenzene	50.00	52.3	105	70 - 125
tert-Butylbenzene	50.00	54.1	108	70 - 130
Carbon disulfide	50.00	51.1	102	35 - 160
Carbon tetrachloride	50.00	59.9	120	65 - 140
Chlorobenzene	50.00	50.1	100	80 - 120
Chloroethane	50.00	55.6	111	60 - 135
Chloroform	50.00	54.8	110	65 - 135
Chloromethane	50.00	53.3	107	40 - 125
2-Chlorotoluene	50.00	53.5	107	75 - 125
4-Chlorotoluene	50.00	52.1	104	75 - 130
Dibromochloromethane	50.00	58.2	116	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.0	112	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.5	103	80 - 120
Dibromomethane	50.00	53.7	107	75 - 125
1,2-Dichlorobenzene	50.00	52.8	106	70 - 120
1,3-Dichlorobenzene	50.00	52.2	104	75 - 125
1,4-Dichlorobenzene	50.00	51.5	103	75 - 125
Dichlorodifluoromethane	50.00	61.6	123	30 - 155
1,1-Dichloroethane	50.00	54.8	110	70 - 135
1,2-Dichloroethane	50.00	58.7	117	70 - 130
1,1-Dichloroethene	50.00	59.2	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21012	Laboratory ID:	1B21012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	54.8	110	70 - 125
trans-1,2-Dichloroethene	50.00	55.8	112	60 - 140
1,2-Dichloropropane	50.00	50.7	101	75 - 125
1,3-Dichloropropane	50.00	49.8	99.5	75 - 125
2,2-Dichloropropane	50.00	51.6	103	70 - 135
1,1-Dichloropropene	50.00	58.0	116	75 - 130
cis-1,3-Dichloropropene	50.00	53.0	106	70 - 130
trans-1,3-Dichloropropene	50.00	60.3	121	55 - 140
Ethylbenzene	50.00	51.9	104	75 - 125
Hexachlorobutadiene	50.00	63.4	127	50 - 140
2-Hexanone	100.0	101	101	55 - 130
Isopropylbenzene	50.00	58.0	116	75 - 125
p-Isopropyltoluene	50.00	55.8	112	75 - 130
Methylene chloride	50.00	52.9	106	55 - 140
Naphthalene	50.00	51.4	103	55 - 140
4-Methyl-2-pentanone	100.0	105	105	60 - 135
Methyl t-Butyl Ether	100.0	106	106	65 - 125
n-Propylbenzene	50.00	53.1	106	70 - 130
Styrene	50.00	54.5	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.0	97.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.0	112	80 - 130
Tetrachloroethene	50.00	54.7	109	45 - 150
Toluene	50.00	49.4	98.8	75 - 120
1,2,3-Trichlorobenzene	50.00	53.4	107	55 - 140
1,2,4-Trichlorobenzene	50.00	54.5	109	65 - 135
1,1,2-Trichloroethane	50.00	49.4	98.8	75 - 125
1,1,1-Trichloroethane	50.00	57.9	116	65 - 130
Trichloroethene	50.00	54.0	108	70 - 125
Trichlorofluoromethane	50.00	57.1	114	60 - 145
1,2,3-Trichloropropane	50.00	52.8	106	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21012	Laboratory ID:	1B21012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	55.4	111	75 - 130
1,2,4-Trimethylbenzene	50.00	55.2	110	75 - 130
Vinyl chloride	50.00	54.3	109	50 - 145
m,p-Xylene	100.0	103	103	75 - 130
o-Xylene	50.00	52.5	105	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	122	122	3.55	30	40 - 140
Benzene	50.00	46.4	92.8	12.8	30	80 - 120
Bromobenzene	50.00	48.1	96.2	13.4	30	75 - 125
Bromochloromethane	50.00	50.7	101	8.18	30	65 - 130
Bromodichloromethane	50.00	56.4	113	3.05	30	75 - 120
Bromoform	50.00	60.5	121	3.16	30	70 - 130
Bromomethane	50.00	38.6	77.2	30.8 *	30	30 - 145
n-Butylbenzene	50.00	45.3	90.6	15.4	30	70 - 135
2-Butanone	100.0	101	101	0.646	30	30 - 150
sec-Butylbenzene	50.00	46.1	92.2	12.6	30	70 - 125
tert-Butylbenzene	50.00	48.3	96.6	11.4	30	70 - 130
Carbon disulfide	50.00	45.8	91.6	10.9	30	35 - 160
Carbon tetrachloride	50.00	57.4	115	4.30	30	65 - 140
Chlorobenzene	50.00	45.0	89.9	10.7	30	80 - 120
Chloroethane	50.00	49.2	98.5	12.2	30	60 - 135
Chloroform	50.00	51.1	102	6.98	30	65 - 135
Chloromethane	50.00	43.8	87.5	19.6	30	40 - 125
2-Chlorotoluene	50.00	45.0	90.1	17.1	30	75 - 125
4-Chlorotoluene	50.00	46.2	92.4	12.0	30	75 - 130
Dibromochloromethane	50.00	54.0	108	7.44	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.4	92.8	18.8	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.4	98.8	4.27	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21012	Laboratory ID:	1B21012-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	51.6	103	4.02	30	75 - 125
1,2-Dichlorobenzene	50.00	46.7	93.5	12.2	30	70 - 120
1,3-Dichlorobenzene	50.00	46.6	93.3	11.3	30	75 - 125
1,4-Dichlorobenzene	50.00	45.1	90.2	13.3	30	75 - 125
Dichlorodifluoromethane	50.00	59.3	119	3.73	30	30 - 155
1,1-Dichloroethane	50.00	49.1	98.2	10.9	30	70 - 135
1,2-Dichloroethane	50.00	58.6	117	0.236	30	70 - 130
1,1-Dichloroethene	50.00	53.9	108	9.44	30	70 - 130
cis-1,2-Dichloroethene	50.00	49.4	98.8	10.4	30	70 - 125
trans-1,2-Dichloroethene	50.00	47.2	94.4	16.7	30	60 - 140
1,2-Dichloropropane	50.00	45.3	90.7	11.2	30	75 - 125
1,3-Dichloropropane	50.00	45.3	90.6	9.41	30	75 - 125
2,2-Dichloropropane	50.00	48.2	96.5	6.83	30	70 - 135
1,1-Dichloropropene	50.00	51.7	103	11.5	30	75 - 130
cis-1,3-Dichloropropene	50.00	48.3	96.6	9.35	30	70 - 130
trans-1,3-Dichloropropene	50.00	53.4	107	12.0	30	55 - 140
Ethylbenzene	50.00	48.2	96.3	7.38	30	75 - 125
Hexachlorobutadiene	50.00	50.8	102	22.2	30	50 - 140
2-Hexanone	100.0	104	104	3.28	30	55 - 130
Isopropylbenzene	50.00	55.6	111	4.31	30	75 - 125
p-Isopropyltoluene	50.00	49.0	97.9	13.0	30	75 - 130
Methylene chloride	50.00	46.9	93.7	12.1	30	55 - 140
Naphthalene	50.00	43.2	86.4	17.2	30	55 - 140
4-Methyl-2-pentanone	100.0	112	112	6.02	30	60 - 135
Methyl t-Butyl Ether	100.0	101	101	5.02	30	65 - 125
n-Propylbenzene	50.00	46.6	93.1	13.1	30	70 - 130
Styrene	50.00	49.8	99.5	9.11	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.5	87.0	11.9	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.7	105	6.11	30	80 - 130
Tetrachloroethene	50.00	48.9	97.8	11.3	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21012	Laboratory ID:	1B21012-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	44.1	88.1	11.4	30	75 - 120
1,2,3-Trichlorobenzene	50.00	43.5	87.0	20.5	30	55 - 140
1,2,4-Trichlorobenzene	50.00	43.4	86.7	22.8	30	65 - 135
1,1,2-Trichloroethane	50.00	44.1	88.1	11.4	30	75 - 125
1,1,1-Trichloroethane	50.00	55.2	110	4.77	30	65 - 130
Trichloroethene	50.00	48.9	97.8	9.87	30	70 - 125
Trichlorofluoromethane	50.00	57.5	115	0.614	30	60 - 145
1,2,3-Trichloropropane	50.00	52.3	105	0.867	30	75 - 125
1,3,5-Trimethylbenzene	50.00	48.6	97.2	13.1	30	75 - 130
1,2,4-Trimethylbenzene	50.00	49.2	98.3	11.6	30	75 - 130
Vinyl chloride	50.00	48.1	96.1	12.2	30	50 - 145
m,p-Xylene	100.0	99.2	99.2	4.01	30	75 - 130
o-Xylene	50.00	49.8	99.6	5.29	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22009	Laboratory ID:	1B22009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	123	123	40 - 140
Benzene	50.00	52.2	104	80 - 120
Bromobenzene	50.00	53.5	107	75 - 125
Bromochloromethane	50.00	54.8	110	65 - 130
Bromodichloromethane	**50.00**	**68.8**	**138**	**75 - 120**
Bromoform	50.00	61.7	123	70 - 130
Bromomethane	50.00	31.8	63.6	30 - 145
n-Butylbenzene	50.00	53.3	107	70 - 135
2-Butanone	100.0	110	110	30 - 150
sec-Butylbenzene	50.00	53.9	108	70 - 125
tert-Butylbenzene	50.00	55.4	111	70 - 130
Carbon disulfide	50.00	59.0	118	35 - 160
Carbon tetrachloride	50.00	64.3	129	65 - 140
Chlorobenzene	50.00	53.1	106	80 - 120
Chloroethane	50.00	61.9	124	60 - 135
Chloroform	50.00	57.2	114	65 - 135
Chloromethane	50.00	58.6	117	40 - 125
2-Chlorotoluene	50.00	54.0	108	75 - 125
4-Chlorotoluene	50.00	54.5	109	75 - 130
Dibromochloromethane	50.00	61.4	123	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.4	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.7	109	80 - 120
Dibromomethane	50.00	58.4	117	75 - 125
1,2-Dichlorobenzene	50.00	54.3	109	70 - 120
1,3-Dichlorobenzene	50.00	54.9	110	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	75 - 125
Dichlorodifluoromethane	**50.00**	**86.5**	**173**	**30 - 155**
1,1-Dichloroethane	50.00	55.3	111	70 - 135
1,2-Dichloroethane	50.00	60.9	122	70 - 130
1,1-Dichloroethene	50.00	58.0	116	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22009	Laboratory ID:	1B22009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	54.3	109	70 - 125
trans-1,2-Dichloroethene	50.00	55.8	112	60 - 140
1,2-Dichloropropane	50.00	53.3	107	75 - 125
1,3-Dichloropropane	50.00	52.5	105	75 - 125
2,2-Dichloropropane	50.00	57.8	116	70 - 135
1,1-Dichloropropene	50.00	57.0	114	75 - 130
cis-1,3-Dichloropropene	50.00	55.1	110	70 - 130
trans-1,3-Dichloropropene	50.00	62.2	124	55 - 140
Ethylbenzene	50.00	53.1	106	75 - 125
Hexachlorobutadiene	50.00	56.4	113	50 - 140
2-Hexanone	100.0	106	106	55 - 130
Isopropylbenzene	50.00	57.2	114	75 - 125
p-Isopropyltoluene	50.00	53.8	108	75 - 130
Methylene chloride	50.00	53.0	106	55 - 140
Naphthalene	50.00	52.4	105	55 - 140
4-Methyl-2-pentanone	100.0	124	124	60 - 135
Methyl t-Butyl Ether	100.0	108	108	65 - 125
n-Propylbenzene	50.00	54.6	109	70 - 130
Styrene	50.00	54.4	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.9	99.7	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**66.9**	**134**	**80 - 130**
Tetrachloroethene	50.00	53.0	106	45 - 150
Toluene	50.00	50.5	101	75 - 120
1,2,3-Trichlorobenzene	50.00	50.4	101	55 - 140
1,2,4-Trichlorobenzene	50.00	50.1	100	65 - 135
1,1,2-Trichloroethane	50.00	51.0	102	75 - 125
1,1,1-Trichloroethane	50.00	63.7	127	65 - 130
Trichloroethene	50.00	57.6	115	70 - 125
Trichlorofluoromethane	50.00	64.5	129	60 - 145
1,2,3-Trichloropropane	50.00	57.7	115	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22009	Laboratory ID:	1B22009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.6	109	75 - 130
1,2,4-Trimethylbenzene	50.00	55.1	110	75 - 130
Vinyl chloride	50.00	63.1	126	50 - 145
m,p-Xylene	100.0	99.7	99.7	75 - 130
o-Xylene	50.00	52.0	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23016	Laboratory ID:	1B23016-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	115	115	40 - 140
Benzene	50.00	51.0	102	80 - 120
Bromobenzene	50.00	54.4	109	75 - 125
Bromochloromethane	50.00	58.5	117	65 - 130
Bromodichloromethane	50.00	59.9	120	75 - 120
Bromoform	50.00	64.4	129	70 - 130
Bromomethane	50.00	54.1	108	30 - 145
n-Butylbenzene	50.00	49.0	98.0	70 - 135
2-Butanone	100.0	89.4	89.4	30 - 150
sec-Butylbenzene	50.00	50.7	101	70 - 125
tert-Butylbenzene	50.00	51.7	103	70 - 130
Carbon disulfide	50.00	50.5	101	35 - 160
Carbon tetrachloride	50.00	60.4	121	65 - 140
Chlorobenzene	50.00	50.3	101	80 - 120
Chloroethane	50.00	53.7	107	60 - 135
Chloroform	50.00	56.2	112	65 - 135
Chloromethane	50.00	52.4	105	40 - 125
2-Chlorotoluene	50.00	49.6	99.1	75 - 125
4-Chlorotoluene	50.00	51.1	102	75 - 130
Dibromochloromethane	50.00	60.2	120	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.6	113	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.8	108	80 - 120
Dibromomethane	50.00	58.4	117	75 - 125
1,2-Dichlorobenzene	50.00	52.1	104	70 - 120
1,3-Dichlorobenzene	50.00	51.2	102	75 - 125
1,4-Dichlorobenzene	50.00	50.2	100	75 - 125
Dichlorodifluoromethane	50.00	58.3	117	30 - 155
1,1-Dichloroethane	50.00	54.7	109	70 - 135
1,2-Dichloroethane	50.00	62.2	124	70 - 130
1,1-Dichloroethene	50.00	58.7	117	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23016	Laboratory ID:	1B23016-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	54.9	110	70 - 125
trans-1,2-Dichloroethene	50.00	55.2	110	60 - 140
1,2-Dichloropropane	50.00	51.8	104	75 - 125
1,3-Dichloropropane	50.00	51.0	102	75 - 125
2,2-Dichloropropane	50.00	55.6	111	70 - 135
1,1-Dichloropropene	50.00	57.7	115	75 - 130
cis-1,3-Dichloropropene	50.00	54.9	110	70 - 130
trans-1,3-Dichloropropene	50.00	62.2	124	55 - 140
Ethylbenzene	50.00	50.9	102	75 - 125
Hexachlorobutadiene	50.00	59.9	120	50 - 140
2-Hexanone	100.0	93.9	93.9	55 - 130
Isopropylbenzene	50.00	56.5	113	75 - 125
p-Isopropyltoluene	50.00	53.0	106	75 - 130
Methylene chloride	50.00	53.6	107	55 - 140
Naphthalene	50.00	51.0	102	55 - 140
4-Methyl-2-pentanone	100.0	100	100	60 - 135
Methyl t-Butyl Ether	100.0	116	116	65 - 125
n-Propylbenzene	50.00	50.6	101	70 - 130
Styrene	50.00	54.1	108	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.0	98.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.2	112	80 - 130
Tetrachloroethene	50.00	53.5	107	45 - 150
Toluene	50.00	49.6	99.2	75 - 120
1,2,3-Trichlorobenzene	50.00	52.2	104	55 - 140
1,2,4-Trichlorobenzene	50.00	52.2	104	65 - 135
1,1,2-Trichloroethane	50.00	50.3	101	75 - 125
1,1,1-Trichloroethane	50.00	58.8	118	65 - 130
Trichloroethene	50.00	54.9	110	70 - 125
Trichlorofluoromethane	50.00	60.3	121	60 - 145
1,2,3-Trichloropropane	50.00	52.4	105	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23016	Laboratory ID:	1B23016-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	53.5	107	75 - 130
1,2,4-Trimethylbenzene	50.00	53.0	106	75 - 130
Vinyl chloride	50.00	54.3	109	50 - 145
m,p-Xylene	100.0	105	105	75 - 130
o-Xylene	50.00	52.0	104	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	118	118	2.54	30	40 - 140
Benzene	50.00	52.1	104	2.19	30	80 - 120
Bromobenzene	50.00	55.5	111	1.95	30	75 - 125
Bromochloromethane	50.00	58.8	118	0.478	30	65 - 130
Bromodichloromethane	**50.00**	**63.6**	**127 ***	**5.89**	**30**	**75 - 120**
Bromoform	**50.00**	**68.5**	**137 ***	**6.15**	**30**	**70 - 130**
Bromomethane	50.00	47.6	95.2	12.7	30	30 - 145
n-Butylbenzene	50.00	48.9	97.8	0.205	30	70 - 135
2-Butanone	100.0	92.5	92.5	3.38	30	30 - 150
sec-Butylbenzene	50.00	50.9	102	0.450	30	70 - 125
tert-Butylbenzene	50.00	51.7	103	0.0304	30	70 - 130
Carbon disulfide	50.00	48.2	96.5	4.50	30	35 - 160
Carbon tetrachloride	50.00	61.1	122	1.27	30	65 - 140
Chlorobenzene	50.00	49.5	99.0	1.62	30	80 - 120
Chloroethane	50.00	51.0	102	5.23	30	60 - 135
Chloroform	50.00	57.5	115	2.36	30	65 - 135
Chloromethane	50.00	48.1	96.2	8.60	30	40 - 125
2-Chlorotoluene	50.00	51.7	103	4.27	30	75 - 125
4-Chlorotoluene	50.00	51.5	103	0.852	30	75 - 130
Dibromochloromethane	50.00	62.3	125	3.58	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.8	114	0.389	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.8	112	3.65	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23016	Laboratory ID:	1B23016-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	59.2	118	1.47	30	75 - 125
1,2-Dichlorobenzene	50.00	53.5	107	2.65	30	70 - 120
1,3-Dichlorobenzene	50.00	52.3	105	2.21	30	75 - 125
1,4-Dichlorobenzene	50.00	51.5	103	2.45	30	75 - 125
Dichlorodifluoromethane	50.00	55.2	110	5.56	30	30 - 155
1,1-Dichloroethane	50.00	53.3	107	2.48	30	70 - 135
1,2-Dichloroethane	**50.00**	**67.3**	**135 ***	**7.76**	**30**	**70 - 130**
1,1-Dichloroethene	50.00	55.6	111	5.45	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.3	111	0.676	30	70 - 125
trans-1,2-Dichloroethene	50.00	51.8	104	6.39	30	60 - 140
1,2-Dichloropropane	50.00	51.9	104	0.163	30	75 - 125
1,3-Dichloropropane	50.00	51.3	103	0.609	30	75 - 125
2,2-Dichloropropane	50.00	47.2	94.4	16.3	30	70 - 135
1,1-Dichloropropene	50.00	56.0	112	2.98	30	75 - 130
cis-1,3-Dichloropropene	50.00	55.1	110	0.307	30	70 - 130
trans-1,3-Dichloropropene	50.00	62.1	124	0.182	30	55 - 140
Ethylbenzene	50.00	53.0	106	4.03	30	75 - 125
Hexachlorobutadiene	50.00	54.7	109	9.16	30	50 - 140
2-Hexanone	100.0	98.3	98.3	4.60	30	55 - 130
Isopropylbenzene	50.00	59.8	120	5.81	30	75 - 125
p-Isopropyltoluene	50.00	53.9	108	1.68	30	75 - 130
Methylene chloride	50.00	54.8	110	2.31	30	55 - 140
Naphthalene	50.00	51.6	103	1.22	30	55 - 140
4-Methyl-2-pentanone	100.0	105	105	5.02	30	60 - 135
Methyl t-Butyl Ether	100.0	117	117	0.723	30	65 - 125
n-Propylbenzene	50.00	51.2	102	1.31	30	70 - 130
Styrene	50.00	55.0	110	1.54	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.7	101	3.35	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	58.6	117	4.22	30	80 - 130
Tetrachloroethene	50.00	51.0	102	4.81	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23016	Laboratory ID:	1B23016-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.3	96.6	2.64	30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.2	98.4	5.89	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.6	101	3.21	30	65 - 135
1,1,2-Trichloroethane	50.00	50.7	101	0.803	30	75 - 125
1,1,1-Trichloroethane	50.00	60.6	121	2.99	30	65 - 130
Trichloroethene	50.00	55.3	111	0.695	30	70 - 125
Trichlorofluoromethane	50.00	58.6	117	2.91	30	60 - 145
1,2,3-Trichloropropane	50.00	57.2	114	8.66	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.4	107	0.320	30	75 - 130
1,2,4-Trimethylbenzene	50.00	55.9	112	5.34	30	75 - 130
Vinyl chloride	50.00	51.4	103	5.47	30	50 - 145
m,p-Xylene	100.0	105	105	0.192	30	75 - 130
o-Xylene	50.00	54.2	108	4.10	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24002	Laboratory ID:	1B24002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	116	116	40 - 140
Benzene	50.00	51.6	103	80 - 120
Bromobenzene	50.00	54.4	109	75 - 125
Bromochloromethane	50.00	57.1	114	65 - 130
Bromodichloromethane	50.00	59.5	119	75 - 120
Bromoform	50.00	61.7	123	70 - 130
Bromomethane	50.00	54.4	109	30 - 145
n-Butylbenzene	50.00	52.2	104	70 - 135
2-Butanone	100.0	99.2	99.2	30 - 150
sec-Butylbenzene	50.00	53.3	107	70 - 125
tert-Butylbenzene	50.00	54.4	109	70 - 130
Carbon disulfide	50.00	51.7	103	35 - 160
Carbon tetrachloride	50.00	60.8	122	65 - 140
Chlorobenzene	50.00	50.2	100	80 - 120
Chloroethane	50.00	53.7	107	60 - 135
Chloroform	50.00	55.3	111	65 - 135
Chloromethane	50.00	52.9	106	40 - 125
2-Chlorotoluene	50.00	51.5	103	75 - 125
4-Chlorotoluene	50.00	51.4	103	75 - 130
Dibromochloromethane	50.00	57.6	115	60 - 135
1,2-Dibromo-3-chloropropane	50.00	53.1	106	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.9	106	80 - 120
Dibromomethane	50.00	54.2	108	75 - 125
1,2-Dichlorobenzene	50.00	53.7	107	70 - 120
1,3-Dichlorobenzene	50.00	52.2	104	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	75 - 125
Dichlorodifluoromethane	50.00	58.4	117	30 - 155
1,1-Dichloroethane	50.00	54.8	110	70 - 135
1,2-Dichloroethane	50.00	58.9	118	70 - 130
1,1-Dichloroethene	50.00	60.4	121	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24002	Laboratory ID:	1B24002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	55.0	110	70 - 125
trans-1,2-Dichloroethene	50.00	54.2	108	60 - 140
1,2-Dichloropropane	50.00	49.4	98.8	75 - 125
1,3-Dichloropropane	50.00	48.7	97.5	75 - 125
2,2-Dichloropropane	50.00	58.6	117	70 - 135
1,1-Dichloropropene	50.00	57.7	115	75 - 130
cis-1,3-Dichloropropene	50.00	52.2	104	70 - 130
trans-1,3-Dichloropropene	50.00	61.9	124	55 - 140
Ethylbenzene	50.00	53.0	106	75 - 125
Hexachlorobutadiene	50.00	63.8	128	50 - 140
2-Hexanone	100.0	102	102	55 - 130
Isopropylbenzene	50.00	58.8	118	75 - 125
p-Isopropyltoluene	50.00	55.1	110	75 - 130
Methylene chloride	50.00	48.8	97.7	55 - 140
Naphthalene	50.00	49.9	99.8	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	100.0	109	109	65 - 125
n-Propylbenzene	50.00	52.9	106	70 - 130
Styrene	50.00	55.4	111	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.6	95.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	57.2	114	80 - 130
Tetrachloroethene	50.00	55.8	112	45 - 150
Toluene	50.00	51.4	103	75 - 120
1,2,3-Trichlorobenzene	50.00	51.7	103	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	65 - 135
1,1,2-Trichloroethane	50.00	46.7	93.3	75 - 125
1,1,1-Trichloroethane	50.00	58.9	118	65 - 130
Trichloroethene	50.00	55.9	112	70 - 125
Trichlorofluoromethane	50.00	60.1	120	60 - 145
1,2,3-Trichloropropane	50.00	51.8	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24002	Laboratory ID:	1B24002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	55.0	110	75 - 130
1,2,4-Trimethylbenzene	50.00	56.1	112	75 - 130
Vinyl chloride	50.00	55.3	111	50 - 145
m,p-Xylene	100.0	105	105	75 - 130
o-Xylene	50.00	51.2	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24021	Laboratory ID:	1B24021-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	121	121	40 - 140
Benzene	50.00	47.3	94.7	80 - 120
Bromobenzene	50.00	54.0	108	75 - 125
Bromochloromethane	50.00	51.3	103	65 - 130
Bromodichloromethane	50.00	58.1	116	75 - 120
Bromoform	**50.00**	**66.5**	**133**	**70 - 130**
Bromomethane	50.00	24.3	48.6	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	103	103	30 - 150
sec-Butylbenzene	50.00	52.5	105	70 - 125
tert-Butylbenzene	50.00	54.3	109	70 - 130
Carbon disulfide	50.00	28.6	57.2	35 - 160
Carbon tetrachloride	50.00	53.8	108	65 - 140
Chlorobenzene	50.00	50.5	101	80 - 120
Chloroethane	**50.00**	**28.2**	**56.4**	**60 - 135**
Chloroform	50.00	51.3	103	65 - 135
Chloromethane	**50.00**	**10.5**	**21.0**	**40 - 125**
2-Chlorotoluene	50.00	50.3	101	75 - 125
4-Chlorotoluene	50.00	49.3	98.6	75 - 130
Dibromochloromethane	50.00	59.4	119	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.9	114	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.8	108	80 - 120
Dibromomethane	50.00	52.6	105	75 - 125
1,2-Dichlorobenzene	50.00	52.7	105	70 - 120
1,3-Dichlorobenzene	50.00	49.8	99.6	75 - 125
1,4-Dichlorobenzene	50.00	52.8	106	75 - 125
Dichlorodifluoromethane	**50.00**	**2.55**	**5.11**	**30 - 155**
1,1-Dichloroethane	50.00	48.5	96.9	70 - 135
1,2-Dichloroethane	50.00	54.5	109	70 - 130
1,1-Dichloroethene	50.00	42.1	84.2	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24021	Laboratory ID:	1B24021-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.9	97.7	70 - 125
trans-1,2-Dichloroethene	50.00	46.1	92.3	60 - 140
1,2-Dichloropropane	50.00	49.2	98.5	75 - 125
1,3-Dichloropropane	50.00	50.5	101	75 - 125
2,2-Dichloropropane	50.00	47.9	95.7	70 - 135
1,1-Dichloropropene	50.00	51.6	103	75 - 130
cis-1,3-Dichloropropene	50.00	51.2	102	70 - 130
trans-1,3-Dichloropropene	50.00	60.4	121	55 - 140
Ethylbenzene	50.00	53.7	107	75 - 125
Hexachlorobutadiene	50.00	62.7	125	50 - 140
2-Hexanone	100.0	109	109	55 - 130
Isopropylbenzene	50.00	59.9	120	75 - 125
p-Isopropyltoluene	50.00	54.1	108	75 - 130
Methylene chloride	50.00	45.8	91.7	55 - 140
Naphthalene	50.00	53.2	106	55 - 140
4-Methyl-2-pentanone	100.0	111	111	60 - 135
Methyl t-Butyl Ether	100.0	97.6	97.6	65 - 125
n-Propylbenzene	50.00	49.0	98.1	70 - 130
Styrene	50.00	55.8	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.8	99.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.7	113	80 - 130
Tetrachloroethene	50.00	53.6	107	45 - 150
Toluene	50.00	48.9	97.8	75 - 120
1,2,3-Trichlorobenzene	50.00	52.1	104	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	65 - 135
1,1,2-Trichloroethane	50.00	50.4	101	75 - 125
1,1,1-Trichloroethane	50.00	53.0	106	65 - 130
Trichloroethene	50.00	51.8	104	70 - 125
Trichlorofluoromethane	50.00	31.8	63.6	60 - 145
1,2,3-Trichloropropane	50.00	54.9	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24021	Laboratory ID:	1B24021-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.7	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.5	107	75 - 130
Vinyl chloride	**50.00**	**15.6**	**31.3**	**50 - 145**
m,p-Xylene	100.0	104	104	75 - 130
o-Xylene	50.00	53.1	106	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	115	115	5.36	30	40 - 140
Benzene	50.00	45.3	90.7	4.29	30	80 - 120
Bromobenzene	50.00	55.2	110	2.13	30	75 - 125
Bromochloromethane	50.00	51.1	102	0.224	30	65 - 130
Bromodichloromethane	50.00	56.4	113	3.00	30	75 - 120
Bromoform	**50.00**	**65.9**	**132 ***	**0.992**	**30**	**70 - 130**
Bromomethane	50.00	20.2	40.4	18.3	30	30 - 145
n-Butylbenzene	50.00	51.4	103	0.738	30	70 - 135
2-Butanone	100.0	100	100	2.81	30	30 - 150
sec-Butylbenzene	50.00	53.3	107	1.51	30	70 - 125
tert-Butylbenzene	50.00	53.4	107	1.73	30	70 - 130
Carbon disulfide	50.00	26.7	53.4	6.96	30	35 - 160
Carbon tetrachloride	50.00	51.2	102	5.01	30	65 - 140
Chlorobenzene	50.00	48.5	97.1	3.88	30	80 - 120
Chloroethane	**50.00**	**24.1**	**48.2 ***	**15.7**	**30**	**60 - 135**
Chloroform	50.00	49.6	99.1	3.40	30	65 - 135
Chloromethane	**50.00**	**9.52**	**19.0 ***	**9.95**	**30**	**40 - 125**
2-Chlorotoluene	50.00	49.9	99.9	0.646	30	75 - 125
4-Chlorotoluene	50.00	45.0	90.1	9.08	30	75 - 130
Dibromochloromethane	50.00	58.7	117	1.19	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	55.3	111	2.97	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.9	108	0.278	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24021	Laboratory ID:	1B24021-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	50.8	102	3.50	30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	2.38	30	70 - 120
1,3-Dichlorobenzene	50.00	55.0	110	9.91	30	75 - 125
1,4-Dichlorobenzene	50.00	48.0	96.1	9.53	30	75 - 125
Dichlorodifluoromethane	**50.00**	**2.20**	**4.41 ***	**14.7**	**30**	**30 - 155**
1,1-Dichloroethane	50.00	46.5	93.0	4.12	30	70 - 135
1,2-Dichloroethane	50.00	54.7	109	0.354	30	70 - 130
1,1-Dichloroethene	50.00	38.5	76.9	9.03	30	70 - 130
cis-1,2-Dichloroethene	50.00	47.9	95.8	1.93	30	70 - 125
trans-1,2-Dichloroethene	50.00	43.2	86.4	6.56	30	60 - 140
1,2-Dichloropropane	50.00	46.9	93.8	4.92	30	75 - 125
1,3-Dichloropropane	50.00	49.2	98.5	2.57	30	75 - 125
2,2-Dichloropropane	50.00	39.5	78.9	19.3	30	70 - 135
1,1-Dichloropropene	50.00	49.4	98.8	4.37	30	75 - 130
cis-1,3-Dichloropropene	50.00	49.5	98.9	3.43	30	70 - 130
trans-1,3-Dichloropropene	50.00	58.2	116	3.69	30	55 - 140
Ethylbenzene	50.00	51.8	104	3.64	30	75 - 125
Hexachlorobutadiene	50.00	58.2	116	7.37	30	50 - 140
2-Hexanone	100.0	103	103	5.15	30	55 - 130
Isopropylbenzene	50.00	59.3	119	0.943	30	75 - 125
p-Isopropyltoluene	50.00	54.6	109	1.05	30	75 - 130
Methylene chloride	50.00	43.5	87.1	5.16	30	55 - 140
Naphthalene	50.00	51.4	103	3.41	30	55 - 140
4-Methyl-2-pentanone	100.0	107	107	2.88	30	60 - 135
Methyl t-Butyl Ether	100.0	96.5	96.5	1.07	30	65 - 125
n-Propylbenzene	50.00	51.5	103	4.84	30	70 - 130
Styrene	50.00	54.6	109	2.23	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.4	101	1.16	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.9	112	1.46	30	80 - 130
Tetrachloroethene	50.00	51.7	103	3.57	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24021	Laboratory ID:	1B24021-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.5	96.9	0.929	30	75 - 120
1,2,3-Trichlorobenzene	50.00	51.4	103	1.40	30	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	0.0377	30	65 - 135
1,1,2-Trichloroethane	50.00	50.5	101	0.282	30	75 - 125
1,1,1-Trichloroethane	50.00	50.2	100	5.38	30	65 - 130
Trichloroethene	50.00	49.1	98.2	5.38	30	70 - 125
Trichlorofluoromethane	50.00	30.8	61.7	3.07	30	60 - 145
1,2,3-Trichloropropane	50.00	55.9	112	1.75	30	75 - 125
1,3,5-Trimethylbenzene	50.00	54.0	108	2.45	30	75 - 130
1,2,4-Trimethylbenzene	50.00	55.0	110	2.64	30	75 - 130
Vinyl chloride	**50.00**	**14.3**	**28.6 ***	**8.85**	**30**	**50 - 145**
m,p-Xylene	100.0	103	103	1.34	30	75 - 130
o-Xylene	50.00	52.0	104	2.14	30	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	10000	1570	13200	117		40 - 140
Benzene	5000	4300	9360	101		80 - 120
Bromobenzene	5000	ND	5250	105		75 - 125
Bromochloromethane	5000	ND	5830	117		65 - 130
Bromodichloromethane	5000	ND	7250	145	*	75 - 120
Bromoform	5000	ND	5790	116		70 - 130
Bromomethane	5000	ND	3050	61.0		30 - 145
n-Butylbenzene	5000	ND	5240	105		70 - 135
2-Butanone	10000	485	10200	97.5		30 - 150
sec-Butylbenzene	5000	ND	5340	107		70 - 125
tert-Butylbenzene	5000	ND	5640	113		70 - 130
Carbon disulfide	5000	ND	6060	121		35 - 160
Carbon tetrachloride	5000	ND	6680	134		65 - 140
Chlorobenzene	5000	ND	5290	106		80 - 120
Chloroethane	5000	ND	5900	118		60 - 135
Chloroform	5000	ND	6060	121		65 - 135
Chloromethane	5000	ND	5810	116		40 - 125
2-Chlorotoluene	5000	ND	5290	106		75 - 125
4-Chlorotoluene	5000	ND	5400	108		75 - 130
Dibromochloromethane	5000	ND	5910	118		60 - 135
1,2-Dibromo-3-chloropropane	5000	ND	4810	96.2		50 - 130
1,2-Dibromoethane (EDB)	5000	104	5540	109		80 - 120
Dibromomethane	5000	ND	6020	120		75 - 125
1,2-Dichlorobenzene	5000	ND	5390	108		70 - 120
1,3-Dichlorobenzene	5000	ND	5130	103		75 - 125
1,4-Dichlorobenzene	5000	39.9	5470	109		75 - 125
Dichlorodifluoromethane	5000	ND	9240	185	*	30 - 155
1,1-Dichloroethane	5000	ND	5780	116		70 - 135
1,2-Dichloroethane	5000	ND	6570	131	*	70 - 130
1,1-Dichloroethene	5000	ND	6010	120		70 - 130
cis-1,2-Dichloroethene	5000	ND	5390	108		70 - 125
trans-1,2-Dichloroethene	5000	ND	5570	111		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	5000	ND	5360	107		75 - 125
1,3-Dichloropropane	5000	ND	5110	102		75 - 125
2,2-Dichloropropane	5000	ND	5400	108		70 - 135
1,1-Dichloropropene	5000	ND	5890	118		75 - 130
cis-1,3-Dichloropropene	5000	ND	5470	109		70 - 130
trans-1,3-Dichloropropene	5000	ND	5870	117		55 - 140
Ethylbenzene	5000	943	6240	106		75 - 125
Hexachlorobutadiene	5000	ND	4980	99.7		50 - 140
2-Hexanone	10000	ND	9360	93.6		55 - 130
Isopropylbenzene	5000	118	5960	117		75 - 125
p-Isopropyltoluene	5000	ND	5450	109		75 - 130
Methylene chloride	5000	ND	5490	110		55 - 140
Naphthalene	5000	65.8	4990	98.5		55 - 140
4-Methyl-2-pentanone	10000	177	11500	113		60 - 135
Methyl t-Butyl Ether	10000	ND	11000	110		65 - 125
n-Propylbenzene	5000	106	5510	108		70 - 130
Styrene	5000	ND	5450	109		65 - 135
1,1,2,2-Tetrachloroethane	5000	ND	4730	94.7		65 - 130
1,1,1,2-Tetrachloroethane	5000	ND	6720	134	*	80 - 130
Tetrachloroethene	5000	ND	5310	106		45 - 150
Toluene	5000	7170	11600	87.9		75 - 120
1,2,3-Trichlorobenzene	5000	ND	4760	95.1		55 - 140
1,2,4-Trichlorobenzene	5000	ND	4850	97.0		65 - 135
1,1,2-Trichloroethane	5000	ND	4990	99.8		75 - 125
1,1,1-Trichloroethane	5000	ND	6660	133	*	65 - 130
Trichloroethene	5000	ND	6050	121		70 - 125
Trichlorofluoromethane	5000	ND	7310	146	*	60 - 145
1,2,3-Trichloropropane	5000	ND	5690	114		75 - 125
1,3,5-Trimethylbenzene	5000	86.8	5490	108		75 - 130
1,2,4-Trimethylbenzene	5000	230	5780	111		75 - 130
Vinyl chloride	5000	ND	6050	121		50 - 145
m,p-Xylene	10000	1570	11400	98.0		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
o-Xylene	5000	749	5800	101		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	10000	13700	121	3.11		30	40 - 140
Benzene	5000	8410	82.3	10.7		30	80 - 120
Bromobenzene	5000	4680	93.7	11.4		30	75 - 125
Bromochloromethane	5000	5090	102	13.5		30	65 - 130
Bromodichloromethane	5000	6430	129	12.0	*	30	75 - 120
Bromoform	5000	5470	109	5.75		30	70 - 130
Bromomethane	5000	2800	55.9	8.70		30	30 - 145
n-Butylbenzene	5000	4650	93.1	11.9		30	70 - 135
2-Butanone	10000	10500	100	2.75		30	30 - 150
sec-Butylbenzene	5000	4690	93.9	12.8		30	70 - 125
tert-Butylbenzene	5000	4970	99.4	12.7		30	70 - 130
Carbon disulfide	5000	5340	107	12.7		30	35 - 160
Carbon tetrachloride	5000	5930	119	11.9		30	65 - 140
Chlorobenzene	5000	4800	96.1	9.70		30	80 - 120
Chloroethane	5000	5270	105	11.2		30	60 - 135
Chloroform	5000	5360	107	12.3		30	65 - 135
Chloromethane	5000	5280	106	9.64		30	40 - 125
2-Chlorotoluene	5000	4670	93.4	12.6		30	75 - 125
4-Chlorotoluene	5000	4840	96.7	11.0		30	75 - 130
Dibromochloromethane	5000	5550	111	6.38		30	60 - 135
1,2-Dibromo-3-chloropropane	5000	4670	93.4	2.94		30	50 - 130
1,2-Dibromoethane (EDB)	5000	5260	103	5.21		30	80 - 120
Dibromomethane	5000	5390	108	11.1		30	75 - 125
1,2-Dichlorobenzene	5000	4730	94.5	13.2		30	70 - 120
1,3-Dichlorobenzene	5000	4560	91.1	11.8		30	75 - 125
1,4-Dichlorobenzene	5000	4890	97.0	11.2		30	75 - 125
Dichlorodifluoromethane	5000	8740	175	5.51	*	30	30 - 155
1,1-Dichloroethane	5000	5050	101	13.3		30	70 - 135
1,2-Dichloroethane	5000	5840	117	11.6		30	70 - 130
1,1-Dichloroethene	5000	5380	108	11.2		30	70 - 130
cis-1,2-Dichloroethene	5000	4870	97.3	10.3		30	70 - 125
trans-1,2-Dichloroethene	5000	5070	101	9.51		30	60 - 140
1,2-Dichloropropane	5000	4750	95.0	12.0		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	5000	4780	95.7	6.56		30	75 - 125
2,2-Dichloropropane	5000	4680	93.7	14.1		30	70 - 135
1,1-Dichloropropene	5000	5220	104	12.1		30	75 - 130
cis-1,3-Dichloropropene	5000	4890	97.8	11.3		30	70 - 130
trans-1,3-Dichloropropene	5000	5480	110	6.84		30	55 - 140
Ethylbenzene	5000	5650	94.2	9.90		30	75 - 125
Hexachlorobutadiene	5000	4650	93.0	6.96		30	50 - 140
2-Hexanone	10000	9870	98.7	5.28		30	55 - 130
Isopropylbenzene	5000	5340	105	10.9		30	75 - 125
p-Isopropyltoluene	5000	4790	95.8	12.9		30	75 - 130
Methylene chloride	5000	4830	96.5	12.8		30	55 - 140
Naphthalene	5000	4640	91.4	7.32		30	55 - 140
4-Methyl-2-pentanone	10000	12000	118	4.37		30	60 - 135
Methyl t-Butyl Ether	10000	10100	101	8.81		30	65 - 125
n-Propylbenzene	5000	4860	95.0	12.6		30	70 - 130
Styrene	5000	5120	102	6.27		30	65 - 135
1,1,2,2-Tetrachloroethane	5000	4530	90.5	4.50		30	65 - 130
1,1,1,2-Tetrachloroethane	5000	6100	122	9.66		30	80 - 130
Tetrachloroethene	5000	4730	94.5	11.7		30	45 - 150
Toluene	5000	10900	74.0	6.21	*	30	75 - 120
1,2,3-Trichlorobenzene	5000	4390	87.8	8.02		30	55 - 140
1,2,4-Trichlorobenzene	5000	4260	85.3	12.9		30	65 - 135
1,1,2-Trichloroethane	5000	4700	94.1	5.89		30	75 - 125
1,1,1-Trichloroethane	5000	5830	117	13.2		30	65 - 130
Trichloroethene	5000	5220	104	14.6		30	70 - 125
Trichlorofluoromethane	5000	6270	125	15.3		30	60 - 145
1,2,3-Trichloropropane	5000	5470	109	4.01		30	75 - 125
1,3,5-Trimethylbenzene	5000	4820	94.7	12.8		30	75 - 130
1,2,4-Trimethylbenzene	5000	4990	95.2	14.6		30	75 - 130
Vinyl chloride	5000	5670	113	6.43		30	50 - 145
m,p-Xylene	10000	10300	87.4	9.77		30	75 - 130
o-Xylene	5000	5350	92.0	8.02		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B17009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0020	1102135-03	02/17/11 11:15	5.00	5.00
GW0021	1102135-05	02/17/11 11:15	5.00	5.00
GW8013-TB	1102135-07	02/17/11 11:15	5.00	5.00
Blank	1B17009-BLK1	02/17/11 11:15	5.00	5.00
LCS	1B17009-BS1	02/17/11 11:15	5.00	5.00
LCS Dup	1B17009-BSD1	02/17/11 11:15	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18011 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0022	1102141-01	02/18/11 00:00	5.00	5.00
GW8002-AB	1102141-03	02/18/11 00:00	5.00	5.00
GW8002-RB	1102141-04	02/18/11 00:00	5.00	5.00
GW8014-TB	1102141-07	02/18/11 00:00	5.00	5.00
Blank	1B18011-BLK1	02/18/11 00:00	5.00	5.00
LCS	1B18011-BS1	02/18/11 00:00	5.00	5.00
LCS Dup	1B18011-BSD1	02/18/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B19002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01RE1	02/19/11 00:00	5.00	5.00
Blank	1B19002-BLK1	02/19/11 00:00	5.00	5.00
LCS	1B19002-BS1	02/19/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B21012 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8015-TB	1102166-05	02/21/11 00:00	5.00	5.00
Blank	1B21012-BLK1	02/21/11 00:00	5.00	5.00
LCS	1B21012-BS1	02/21/11 00:00	5.00	5.00
LCS Dup	1B21012-BSD1	02/21/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/22/11 00:00	5.00	5.00
GW0031	1102166-03	02/22/11 00:00	5.00	5.00
Blank	1B22009-BLK1	02/22/11 00:00	5.00	5.00
LCS	1B22009-BS1	02/22/11 00:00	5.00	5.00
GW0011	1B22009-MS1	02/22/11 00:00	5.00	5.00
GW0011	1B22009-MSD1	02/22/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23016 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8016-TB	1102174-11	02/23/11 00:00	5.00	5.00
Blank	1B23016-BLK1	02/23/11 00:00	5.00	5.00
LCS	1B23016-BS1	02/23/11 00:00	5.00	5.00
LCS Dup	1B23016-BSD1	02/23/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	02/24/11 00:00	5.00	5.00
GW8017-TB	1102179-03	02/24/11 00:00	5.00	5.00
Blank	1B24002-BLK1	02/24/11 00:00	5.00	5.00
LCS	1B24002-BS1	02/24/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24021 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0010	1102174-01	02/24/11 00:00	5.00	5.00
GW0015	1102174-03	02/24/11 00:00	5.00	5.00
GW0036	1102174-05	02/24/11 00:00	5.00	5.00
GW0037	1102174-07	02/24/11 00:00	5.00	5.00
GW0038	1102174-09	02/24/11 00:00	5.00	5.00
Blank	1B24021-BLK1	02/24/11 00:00	5.00	5.00
LCS	1B24021-BS1	02/24/11 00:00	5.00	5.00
LCS Dup	1B24021-BSD1	02/24/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1213TU1.D	Injection Date:	12/13/10
Instrument ID:	MS-VOA5	Injection Time:	14:13
Sequence:	0L34902	Lab Sample ID:	0L34902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.4	PASS
75	30 - 60% of 95	54.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	64.1	PASS
175	5 - 9% of 174	7.1	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.18	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1213TU2.D	Injection Date:	12/14/10
Instrument ID:	MS-VOA5	Injection Time:	08:57
Sequence:	0L34902	Lab Sample ID:	0L34902-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.1	PASS
75	30 - 60% of 95	51.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.89	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.4	PASS
175	5 - 9% of 174	7.71	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.09	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0209TU1.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA3	Injection Time:	07:36
Sequence:	1B04204	Lab Sample ID:	1B04204-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.87	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	92.7	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.27	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0217TU1E.D	Injection Date:	02/17/11
Instrument ID:	MS-VOA3	Injection Time:	20:42
Sequence:	1B05006	Lab Sample ID:	1B05006-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.8	PASS
75	30 - 60% of 95	48.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.27	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.2	PASS
175	5 - 9% of 174	6.98	PASS
176	95 - 101% of 174	101	PASS
177	5 - 9% of 176	6.47	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0219TU1.D	Injection Date:	02/19/11
Instrument ID:	MS-VOA3	Injection Time:	10:54
Sequence:	1B05201	Lab Sample ID:	1B05201-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22	PASS
75	30 - 60% of 95	50.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.52	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.6	PASS
175	5 - 9% of 174	7.23	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.77	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0218TU1.D	Injection Date:	02/18/11
Instrument ID:	MS-VOA5	Injection Time:	08:13
Sequence:	1B05303	Lab Sample ID:	1B05303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.2	PASS
75	30 - 60% of 95	51.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.83	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	91.6	PASS
175	5 - 9% of 174	7.77	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	6.84	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0221TU1.D	Injection Date:	02/21/11
Instrument ID:	MS-VOA5	Injection Time:	08:04
Sequence:	1B05312	Lab Sample ID:	1B05312-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.4	PASS
75	30 - 60% of 95	53.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.39	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	91.4	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	97.9	PASS
177	5 - 9% of 176	6.56	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0222TU1.D	Injection Date:	02/22/11
Instrument ID:	MS-VOA3	Injection Time:	07:24
Sequence:	1B05401	Lab Sample ID:	1B05401-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.1	PASS
75	30 - 60% of 95	50.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.02	PASS
173	Less than 2% of 174	0.714	PASS
174	50 - 200% of 95	76.9	PASS
175	5 - 9% of 174	7.63	PASS
176	95 - 101% of 174	99.7	PASS
177	5 - 9% of 176	7.31	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0223TU1.D	Injection Date:	02/23/11
Instrument ID:	MS-VOA5	Injection Time:	09:58
Sequence:	1B05514	Lab Sample ID:	1B05514-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	26.4	PASS
75	30 - 60% of 95	56	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.8	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	82.6	PASS
175	5 - 9% of 174	8.03	PASS
176	95 - 101% of 174	98.7	PASS
177	5 - 9% of 176	5.97	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0224TU1.D	Injection Date:	02/24/11
Instrument ID:	MS-VOA5	Injection Time:	06:25
Sequence:	1B05611	Lab Sample ID:	1B05611-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	28.6	PASS
75	30 - 60% of 95	58	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.38	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	63.4	PASS
175	5 - 9% of 174	8.38	PASS
176	95 - 101% of 174	99	PASS
177	5 - 9% of 176	6.03	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0224TU1E.D	Injection Date:	02/24/11
Instrument ID:	MS-VOA5	Injection Time:	18:59
Sequence:	1B05612	Lab Sample ID:	1B05612-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	32.6	PASS
75	30 - 60% of 95	57.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.89	PASS
173	Less than 2% of 174	1.22	PASS
174	50 - 200% of 95	54.7	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	7.34	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34902	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0L34902-TUN1	1213TU1.D	12/13/10 14:13
Cal Standard	0L34902-CAL1	SEQ-CAL1.D	12/13/10 14:43
Cal Standard	0L34902-CAL2	SEQ-CAL2.D	12/13/10 15:13
Cal Standard	0L34902-CAL3	SEQ-CAL3.D	12/13/10 15:43
Cal Standard	0L34902-CAL4	SEQ-CAL4.D	12/13/10 16:14
Cal Standard	0L34902-CAL5	SEQ-CAL5.D	12/13/10 16:44
Cal Standard	0L34902-CAL6	SEQ-CAL6.D	12/13/10 17:14
Cal Standard	0L34902-CAL7	SEQ-CAL7.D	12/13/10 17:44
Cal Standard	0L34902-CAL8	SEQ-CAL8.D	12/13/10 18:14
Cal Standard	0L34902-CAL9	SEQ-CAL9.D	12/13/10 18:44
Initial Cal Check	0L34902-ICV1	SEQ-ICV1.D	12/13/10 19:14
Cal Standard	0L34902-CALA	SEQ-CALA.D	12/13/10 20:14
Cal Standard	0L34902-CALB	SEQ-CALB.D	12/13/10 20:44
Cal Standard	0L34902-CALC	SEQ-CALC.D	12/13/10 21:15
Cal Standard	0L34902-CALD	SEQ-CALD.D	12/13/10 21:45
Cal Standard	0L34902-CALE	SEQ-CALE.D	12/13/10 22:15
Cal Standard	0L34902-CALF	SEQ-CALF.D	12/13/10 22:45
Cal Standard	0L34902-CALG	SEQ-CALG.D	12/13/10 23:15
MS Tune	0L34902-TUN2	1213TU2.D	12/14/10 08:57
Cal Standard	0L34902-CALH	SEQ-CALH.D	12/14/10 09:27
Cal Standard	0L34902-CALI	SEQ-CALI.D	12/14/10 09:57
Initial Cal Check	0L34902-ICV2	SEQ-ICV3.D	12/14/10 10:27

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04204	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04204-TUN1	0209TU1.D	02/09/11 07:36
Cal Standard	1B04204-CAL1	0209CAL1.D	02/09/11 08:01
Cal Standard	1B04204-CAL2	0209CAL2.D	02/09/11 08:31
Cal Standard	1B04204-CAL3	0209CAL3.D	02/09/11 09:01
Cal Standard	1B04204-CAL4	0209CAL4.D	02/09/11 09:31
Cal Standard	1B04204-CAL5	0209CAL5.D	02/09/11 10:01
Cal Standard	1B04204-CAL6	0209CAL6.D	02/09/11 10:30
Cal Standard	1B04204-CAL7	0209CAL7.D	02/09/11 11:00
Cal Standard	1B04204-CAL8	0209CAL8.D	02/09/11 11:30
Cal Standard	1B04204-CAL9	0209CAL9.D	02/09/11 12:00
Initial Cal Check	1B04204-ICV1	0209ICV1.D	02/09/11 12:30
Cal Standard	1B04204-CALA	0209CALA.D	02/09/11 13:29
Cal Standard	1B04204-CALB	0209CALB.D	02/09/11 13:59
Cal Standard	1B04204-CALC	0209CALC.D	02/09/11 14:29
Cal Standard	1B04204-CALE	0209CALE.D	02/09/11 15:34
Cal Standard	1B04204-CALF	0209CALF.D	02/09/11 16:04
Cal Standard	1B04204-CALG	0209CALG.D	02/09/11 16:34
Cal Standard	1B04204-CALH	0209CALH.D	02/09/11 17:04
Cal Standard	1B04204-CALI	0209CALI.D	02/09/11 17:33
Initial Cal Check	1B04204-ICV3	0209ICV3.D	02/09/11 18:03

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05006	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05006-TUN1	0217TU1E.D	02/17/11 20:42
Calibration Check	1B05006-CCV1	0217CCVE.D	02/17/11 21:07
LCS	1B17009-BS1	0217LS1E.D	02/17/11 21:37
Blank	1B17009-BLK1	0217BL1E.D	02/17/11 23:03
GW8013-TB	1102135-07	0213507.D	02/18/11 00:33
GW0020	1102135-03	0213503.D	02/18/11 06:00
GW0021	1102135-05	0213505.D	02/18/11 06:30
LCS Dup	1B17009-BSD1	0217LCSDE.D	02/18/11 07:29

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05201	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05201-TUN1	0219TU1.D	02/19/11 10:54
Calibration Check	1B05201-CCV1	0219CCV1.D	02/19/11 11:20
LCS	1B19002-BS1	0219LS1.D	02/19/11 12:08
Blank	1B19002-BLK1	0219BL1.D	02/19/11 13:35
GW0019	1102135-01RE1	0213501.D	02/19/11 15:04

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05303	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05303-TUN1	0218TU1.D	02/18/11 08:13
Calibration Check	1B05303-CCV1	0218CC1.D	02/18/11 08:43
LCS	1B18011-BS1	0218LS1.D	02/18/11 09:25
Blank	1B18011-BLK1	0218BL1.D	02/18/11 10:53
GW8014-TB	1102141-07	0214107.D	02/18/11 11:23
GW8002-RB	1102141-04	0214104.D	02/18/11 12:24
GW8002-AB	1102141-03	0214103.D	02/18/11 12:54
GW0022	1102141-01	0214101.D	02/18/11 15:56
LCS Dup	1B18011-BSD1	0218LD1.D	02/18/11 20:27

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05312	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05312-TUN1	0221TU1.D	02/21/11 08:04
Calibration Check	1B05312-CCV1	0221CC1.D	02/21/11 08:35
LCS	1B21012-BS1	0221LS1.D	02/21/11 09:05
Blank	1B21012-BLK1	0221BL1.D	02/21/11 10:33
GW8015-TB	1102166-05	0216605.D	02/21/11 11:07
LCS Dup	1B21012-BSD1	0221LD1.D	02/21/11 20:12

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05401	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05401-TUN1	0222TU1.D	02/22/11 07:24
Calibration Check	1B05401-CCV1	0222CCV1.D	02/22/11 07:49
LCS	1B22009-BS1	0222LS1.D	02/22/11 08:19
Blank	1B22009-BLK1	0222BL1.D	02/22/11 09:45
GW0011	1102166-01	0216601D.D	02/22/11 16:43
GW0031	1102166-03	0216603D.D	02/22/11 17:12
GW0011	1B22009-MS1	0216601M.D	02/22/11 18:12
GW0011	1B22009-MSD1	0216601S.D	02/22/11 18:42

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05514	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05514-TUN1	0223TU1.D	02/23/11 09:58
Calibration Check	1B05514-CCV1	0223CC1.D	02/23/11 10:28
LCS	1B23016-BS1	0223LS1.D	02/23/11 10:59
Blank	1B23016-BLK1	0223BL1.D	02/23/11 12:57
GW8016-TB	1102174-11	0217411.D	02/23/11 13:27
LCS Dup	1B23016-BSD1	0223LD1.D	02/23/11 22:01

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05611	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05611-TUN1	0224TU1.D	02/24/11 06:25
Calibration Check	1B05611-CCV1	0224CC1.D	02/24/11 06:55
LCS	1B24002-BS1	0224LS1.D	02/24/11 07:25
Blank	1B24002-BLK1	0224BL1.D	02/24/11 08:54
GW8017-TB	1102179-03	0217903.D	02/24/11 09:24
GW0009	1102179-01	0217901D.D	02/24/11 16:28

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05612	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05612-TUN1	0224TU1E.D	02/24/11 18:59
Calibration Check	1B05612-CCV1	0224CC1E.D	02/24/11 19:30
LCS	1B24021-BS1	0224LS1E.D	02/24/11 20:00
Blank	1B24021-BLK1	0224BL1E.D	02/24/11 21:28
GW0036	1102174-05	0217405.D	02/24/11 22:28
GW0037	1102174-07	0217407.D	02/24/11 22:59
GW0038	1102174-09	0217409.D	02/24/11 23:29
GW0010	1102174-01	0217401D.D	02/24/11 23:59
GW0015	1102174-03	0217403D.D	02/25/11 00:29
LCS Dup	1B24021-BSD1	0224LD1E.D	02/25/11 02:30

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05006	Instrument:	MS-VOA3
		Calibration:	1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05006-CCV1)			Lab File ID: 0217CCVE.D			Analyzed: 02/17/11 21:07			
Fluorobenzene	1063298	12.372	1314641	12.359	81	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	577401	16.003	660505	15.997	87	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	638877	17.981	723449	17.974	88	50 - 200	0.0070	+/-0.50	
LCS (1B17009-BS1)			Lab File ID: 0217LS1E.D			Analyzed: 02/17/11 21:37			
Fluorobenzene	1095166	12.371	1063298	12.372	103	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	563138	16.003	577401	16.003	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	636330	17.98	638877	17.981	100	50 - 200	-0.0010	+/-0.50	
Blank (1B17009-BLK1)			Lab File ID: 0217BL1E.D			Analyzed: 02/17/11 23:03			
Fluorobenzene	1019789	12.372	1063298	12.372	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	521947	16.004	577401	16.003	90	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	596546	17.981	638877	17.981	93	50 - 200	0.0000	+/-0.50	
GW8013-TB (1102135-07)			Lab File ID: 0213507.D			Analyzed: 02/18/11 00:33			
Fluorobenzene	989926	12.372	1063298	12.372	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	490175	16.003	577401	16.003	85	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	580391	17.981	638877	17.981	91	50 - 200	0.0000	+/-0.50	
GW0020 (1102135-03)			Lab File ID: 0213503.D			Analyzed: 02/18/11 06:00			
Fluorobenzene	1048451	12.371	1063298	12.372	99	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	531621	16.003	577401	16.003	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	606442	17.981	638877	17.981	95	50 - 200	0.0000	+/-0.50	
GW0021 (1102135-05)			Lab File ID: 0213505.D			Analyzed: 02/18/11 06:30			
Fluorobenzene	1079058	12.371	1063298	12.372	101	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	545552	16.003	577401	16.003	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	630399	17.981	638877	17.981	99	50 - 200	0.0000	+/-0.50	
LCS Dup (1B17009-BSD1)			Lab File ID: 0217LCSDE.D			Analyzed: 02/18/11 07:29			
Fluorobenzene	1022568	12.365	1063298	12.372	96	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	528445	16.003	577401	16.003	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	610248	17.98	638877	17.981	96	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05201	Instrument:	MS-VOA3
		Calibration:	1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05201-CCV1)			Lab File ID: 0219CCV1.D			Analyzed: 02/19/11 11:20			
Fluorobenzene	997920	12.359	1314641	12.359	76	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	549890	15.991	660505	15.997	83	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	624765	17.968	723449	17.974	86	50 - 200	-0.0060	+/-0.50	
LCS (1B19002-BS1)			Lab File ID: 0219LS1.D			Analyzed: 02/19/11 12:08			
Fluorobenzene	1044640	12.359	997920	12.359	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	556931	15.991	549890	15.991	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	628511	17.968	624765	17.968	101	50 - 200	0.0000	+/-0.50	
Blank (1B19002-BLK1)			Lab File ID: 0219BL1.D			Analyzed: 02/19/11 13:35			
Fluorobenzene	997446	12.353	997920	12.359	100	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	509423	15.991	549890	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	599983	17.968	624765	17.968	96	50 - 200	0.0000	+/-0.50	
GW0019 (1102135-01RE1)			Lab File ID: 0213501.D			Analyzed: 02/19/11 15:04			
Fluorobenzene	989827	12.359	997920	12.359	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	510495	15.991	549890	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	593372	17.975	624765	17.968	95	50 - 200	0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05303	Instrument:	MS-VOA5
		Calibration:	0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05303-CCV1)			Lab File ID: 0218CC1.D			Analyzed: 02/18/11 08:43			
Fluorobenzene	1081821	13.198	1337630	13.37	81	50 - 200	-0.1720	+/-0.50	
Chlorobenzene-d5	648640	16.667	758667	16.829	85	50 - 200	-0.1620	+/-0.50	
1,4-Dichlorobenzene-d4	551825	18.696	549803	18.878	100	50 - 200	-0.1820	+/-0.50	
LCS (1B18011-BS1)			Lab File ID: 0218LS1.D			Analyzed: 02/18/11 09:25			
Fluorobenzene	1195674	13.195	1081821	13.198	111	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	643854	16.664	648640	16.667	99	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	570143	18.694	551825	18.696	103	50 - 200	-0.0020	+/-0.50	
Blank (1B18011-BLK1)			Lab File ID: 0218BL1.D			Analyzed: 02/18/11 10:53			
Fluorobenzene	997483	13.187	1081821	13.198	92	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	512253	16.666	648640	16.667	79	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	451060	18.696	551825	18.696	82	50 - 200	0.0000	+/-0.50	
GW8014-TB (1102141-07)			Lab File ID: 0214107.D			Analyzed: 02/18/11 11:23			
Fluorobenzene	931779	13.192	1081821	13.198	86	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	503486	16.671	648640	16.667	78	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	434385	18.701	551825	18.696	79	50 - 200	0.0050	+/-0.50	
GW8002-RB (1102141-04)			Lab File ID: 0214104.D			Analyzed: 02/18/11 12:24			
Fluorobenzene	949479	13.192	1081821	13.198	88	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	483353	16.67	648640	16.667	75	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	433610	18.7	551825	18.696	79	50 - 200	0.0040	+/-0.50	
GW8002-AB (1102141-03)			Lab File ID: 0214103.D			Analyzed: 02/18/11 12:54			
Fluorobenzene	930936	13.193	1081821	13.198	86	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	492662	16.672	648640	16.667	76	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	429166	18.701	551825	18.696	78	50 - 200	0.0050	+/-0.50	
GW0022 (1102141-01)			Lab File ID: 0214101.D			Analyzed: 02/18/11 15:56			
Fluorobenzene	954397	13.186	1081821	13.198	88	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	491622	16.664	648640	16.667	76	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	438704	18.694	551825	18.696	80	50 - 200	-0.0020	+/-0.50	
LCS Dup (1B18011-BSD1)			Lab File ID: 0218LD1.D			Analyzed: 02/18/11 20:27			
Fluorobenzene	1080008	13.183	1081821	13.198	100	50 - 200	-0.0150	+/-0.50	
Chlorobenzene-d5	613521	16.661	648640	16.667	95	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	554464	18.691	551825	18.696	100	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05312	Instrument:	MS-VOA5
		Calibration:	0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05312-CCV1)			Lab File ID: 0221CC1.D			Analyzed: 02/21/11 08:35			
Fluorobenzene	1191778	13.223	1337630	13.37	89	50 - 200	-0.1470	+/-0.50	
Chlorobenzene-d5	703247	16.682	758667	16.829	93	50 - 200	-0.1470	+/-0.50	
1,4-Dichlorobenzene-d4	585948	18.722	549803	18.878	107	50 - 200	-0.1560	+/-0.50	
LCS (1B21012-BS1)			Lab File ID: 0221LS1.D			Analyzed: 02/21/11 09:05			
Fluorobenzene	1308495	13.212	1191778	13.223	110	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	684492	16.681	703247	16.682	97	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	589016	18.711	585948	18.722	101	50 - 200	-0.0110	+/-0.50	
Blank (1B21012-BLK1)			Lab File ID: 0221BL1.D			Analyzed: 02/21/11 10:33			
Fluorobenzene	1104187	13.218	1191778	13.223	93	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	560075	16.687	703247	16.682	80	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	475603	18.717	585948	18.722	81	50 - 200	-0.0050	+/-0.50	
GW8015-TB (1102166-05)			Lab File ID: 0216605.D			Analyzed: 02/21/11 11:07			
Fluorobenzene	1021519	13.218	1191778	13.223	86	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	518876	16.687	703247	16.682	74	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	462258	18.717	585948	18.722	79	50 - 200	-0.0050	+/-0.50	
LCS Dup (1B21012-BSD1)			Lab File ID: 0221LD1.D			Analyzed: 02/21/11 20:12			
Fluorobenzene	1085164	13.212	1191778	13.223	91	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	594628	16.681	703247	16.682	85	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	555880	18.711	585948	18.722	95	50 - 200	-0.0110	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05401	Instrument:	MS-VOA3
		Calibration:	1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05401-CCV1)			Lab File ID: 0222CCV1.D			Analyzed: 02/22/11 07:49			
Fluorobenzene	1100668	12.372	1314641	12.359	84	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	617823	16.003	660505	15.997	94	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	697505	17.981	723449	17.974	96	50 - 200	0.0070	+/-0.50	
LCS (1B22009-BS1)			Lab File ID: 0222LS1.D			Analyzed: 02/22/11 08:19			
Fluorobenzene	1150627	12.372	1100668	12.372	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	612535	16.004	617823	16.003	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	692411	17.981	697505	17.981	99	50 - 200	0.0000	+/-0.50	
Blank (1B22009-BLK1)			Lab File ID: 0222BL1.D			Analyzed: 02/22/11 09:45			
Fluorobenzene	1094219	12.366	1100668	12.372	99	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	565354	16.004	617823	16.003	92	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	656050	17.981	697505	17.981	94	50 - 200	0.0000	+/-0.50	
GW0011 (1102166-01)			Lab File ID: 0216601D.D			Analyzed: 02/22/11 16:43			
Fluorobenzene	1001711	12.366	1100668	12.372	91	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	545611	15.997	617823	16.003	88	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	635586	17.981	697505	17.981	91	50 - 200	0.0000	+/-0.50	
GW0031 (1102166-03)			Lab File ID: 0216603D.D			Analyzed: 02/22/11 17:12			
Fluorobenzene	1031408	12.365	1100668	12.372	94	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	541908	15.997	617823	16.003	88	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	634400	17.974	697505	17.981	91	50 - 200	-0.0070	+/-0.50	
Matrix Spike (1B22009-MS1)			Lab File ID: 0216601M.D			Analyzed: 02/22/11 18:12			
Fluorobenzene	1013320	12.365	1100668	12.372	92	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	558501	15.997	617823	16.003	90	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	649569	17.974	697505	17.981	93	50 - 200	-0.0070	+/-0.50	
Matrix Spike Dup (1B22009-MSD1)			Lab File ID: 0216601S.D			Analyzed: 02/22/11 18:42			
Fluorobenzene	1054750	12.366	1100668	12.372	96	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	567055	15.997	617823	16.003	92	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	665868	17.975	697505	17.981	95	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05514	Instrument:	MS-VOA5
		Calibration:	0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05514-CCV1)			Lab File ID: 0223CC1.D			Analyzed: 02/23/11 10:28			
Fluorobenzene	1182424	13.185	1337630	13.37	88	50 - 200	-0.1850	+/-0.50	
Chlorobenzene-d5	749163	16.663	758667	16.829	99	50 - 200	-0.1660	+/-0.50	
1,4-Dichlorobenzene-d4	617620	18.693	549803	18.878	112	50 - 200	-0.1850	+/-0.50	
LCS (1B23016-BS1)			Lab File ID: 0223LS1.D			Analyzed: 02/23/11 10:59			
Fluorobenzene	1365326	13.192	1182424	13.185	115	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	735817	16.661	749163	16.663	98	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	649960	18.69	617620	18.693	105	50 - 200	-0.0030	+/-0.50	
Blank (1B23016-BLK1)			Lab File ID: 0223BL1.D			Analyzed: 02/23/11 12:57			
Fluorobenzene	1156976	13.199	1182424	13.185	98	50 - 200	0.0140	+/-0.50	
Chlorobenzene-d5	586643	16.678	749163	16.663	78	50 - 200	0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	523161	18.707	617620	18.693	85	50 - 200	0.0140	+/-0.50	
GW8016-TB (1102174-11)			Lab File ID: 0217411.D			Analyzed: 02/23/11 13:27			
Fluorobenzene	1099668	13.189	1182424	13.185	93	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	550348	16.667	749163	16.663	73	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	495040	18.697	617620	18.693	80	50 - 200	0.0040	+/-0.50	
LCS Dup (1B23016-BSD1)			Lab File ID: 0223LD1.D			Analyzed: 02/23/11 22:01			
Fluorobenzene	1165838	13.199	1182424	13.185	99	50 - 200	0.0140	+/-0.50	
Chlorobenzene-d5	649370	16.668	749163	16.663	87	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	591208	18.698	617620	18.693	96	50 - 200	0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05611	Instrument:	MS-VOA5
		Calibration:	0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05611-CCV1)			Lab File ID: 0224CC1.D			Analyzed: 02/24/11 06:55			
Fluorobenzene	1299664	13.203	1337630	13.37	97	50 - 200	-0.1670	+/-0.50	
Chlorobenzene-d5	770144	16.671	758667	16.829	102	50 - 200	-0.1580	+/-0.50	
1,4-Dichlorobenzene-d4	658263	18.701	549803	18.878	120	50 - 200	-0.1770	+/-0.50	
LCS (1B24002-BS1)			Lab File ID: 0224LS1.D			Analyzed: 02/24/11 07:25			
Fluorobenzene	1467528	13.203	1299664	13.203	113	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	765567	16.671	770144	16.671	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	666775	18.701	658263	18.701	101	50 - 200	0.0000	+/-0.50	
Blank (1B24002-BLK1)			Lab File ID: 0224BL1.D			Analyzed: 02/24/11 08:54			
Fluorobenzene	1216961	13.199	1299664	13.203	94	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	622324	16.677	770144	16.671	81	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	564265	18.707	658263	18.701	86	50 - 200	0.0060	+/-0.50	
GW8017-TB (1102179-03)			Lab File ID: 0217903.D			Analyzed: 02/24/11 09:24			
Fluorobenzene	1144092	13.203	1299664	13.203	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	581756	16.671	770144	16.671	76	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	510706	18.701	658263	18.701	78	50 - 200	0.0000	+/-0.50	
GW0009 (1102179-01)			Lab File ID: 0217901D.D			Analyzed: 02/24/11 16:28			
Fluorobenzene	1192236	13.222	1299664	13.203	92	50 - 200	0.0190	+/-0.50	
Chlorobenzene-d5	634246	16.691	770144	16.671	82	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	597451	18.721	658263	18.701	91	50 - 200	0.0200	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05612	Instrument:	MS-VOA5
		Calibration:	0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05612-CCV1)			Lab File ID: 0224CC1E.D			Analyzed: 02/24/11 19:30			
Fluorobenzene	1358181	13.223	1337630	13.37	102	50 - 200	-0.1470	+/-0.50	
Chlorobenzene-d5	804871	16.701	758667	16.829	106	50 - 200	-0.1280	+/-0.50	
1,4-Dichlorobenzene-d4	670128	18.731	549803	18.878	122	50 - 200	-0.1470	+/-0.50	
LCS (1B24021-BS1)			Lab File ID: 0224LS1E.D			Analyzed: 02/24/11 20:00			
Fluorobenzene	1468260	13.218	1358181	13.223	108	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	764852	16.687	804871	16.701	95	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	699830	18.727	670128	18.731	104	50 - 200	-0.0040	+/-0.50	
Blank (1B24021-BLK1)			Lab File ID: 0224BL1E.D			Analyzed: 02/24/11 21:28			
Fluorobenzene	1250145	13.233	1358181	13.223	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	628196	16.691	804871	16.701	78	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	556307	18.731	670128	18.731	83	50 - 200	0.0000	+/-0.50	
GW0036 (1102174-05)			Lab File ID: 0217405.D			Analyzed: 02/24/11 22:28			
Fluorobenzene	1144815	13.224	1358181	13.223	84	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	603101	16.693	804871	16.701	75	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	518085	18.723	670128	18.731	77	50 - 200	-0.0080	+/-0.50	
GW0037 (1102174-07)			Lab File ID: 0217407.D			Analyzed: 02/24/11 22:59			
Fluorobenzene	1139994	13.225	1358181	13.223	84	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	587234	16.694	804871	16.701	73	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	520706	18.723	670128	18.731	78	50 - 200	-0.0080	+/-0.50	
GW0038 (1102174-09)			Lab File ID: 0217409.D			Analyzed: 02/24/11 23:29			
Fluorobenzene	1116126	13.224	1358181	13.223	82	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	571239	16.693	804871	16.701	71	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	503542	18.723	670128	18.731	75	50 - 200	-0.0080	+/-0.50	
GW0010 (1102174-01)			Lab File ID: 0217401D.D			Analyzed: 02/24/11 23:59			
Fluorobenzene	1112436	13.228	1358181	13.223	82	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	570499	16.696	804871	16.701	71	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	537868	18.726	670128	18.731	80	50 - 200	-0.0050	+/-0.50	
GW0015 (1102174-03)			Lab File ID: 0217403D.D			Analyzed: 02/25/11 00:29			
Fluorobenzene	1162663	13.227	1358181	13.223	86	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	582552	16.696	804871	16.701	72	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	548583	18.725	670128	18.731	82	50 - 200	-0.0060	+/-0.50	
LCS Dup (1B24021-BSD1)			Lab File ID: 0224LD1E.D			Analyzed: 02/25/11 02:30			
Fluorobenzene	1455719	13.223	1358181	13.223	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	754662	16.691	804871	16.701	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	670920	18.721	670128	18.731	100	50 - 200	-0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	0.0300469	5.002	3.765359E-02	10	4.305044E-02	25.01	3.944713E-02	50.02	4.232565E-02	250.1	3.994906E-02
Acrylonitrile	2.499	6.678352E-02	4.998	7.141979E-02	9.996	8.049185E-02	24.99	7.946148E-02	49.98	8.543478E-02	249.9	7.901282E-02
Benzene	0.5	0.7926387	1	0.8802071	2	0.8431238	5	0.831329	10	0.8954439	50	0.8545027
Bromobenzene	0.5	0.5439878	1	0.5886871	2	0.5864637	5	0.6086893	10	0.6266041	50	0.6321922
Bromochloromethane	0.5	9.355392E-02	1	0.1069342	2	0.1296395	5	0.1204606	10	0.1308553	50	0.1247183
Tert-Amyl Methyl Ether	0.5	~~1.523293~~	1	1.054276	2	0.8820578	5	0.7728646	10	0.7570595	50	0.7142613
Bromodichloromethane	0.5	0.3105529	1	0.3604047	2	0.4022681	5	0.3676804	10	0.3943633	50	0.3747865
Bromoform	0.5	0.2866459	1	0.325656	2	0.3308852	5	0.3663993	10	0.3875103	50	0.3876854
Bromomethane	0.5	7.771688E-02	1	0.1318092	2	0.1572429	5	0.1512574	10	0.1728129	50	0.193832
Bromofluorobenzene	30	0.914355	30	0.9144387	30	0.910796	30	0.9359689	30	0.9009915	30	0.9087363
n-Butylbenzene	0.5	1.745146	1	1.488207	2	1.52998	5	1.599226	10	1.569947	50	1.645848
2-Butanone												
sec-Butylbenzene	0.5	2.094667	1	2.018177	2	1.940458	5	1.992429	10	2.103899	50	2.132415
tert-Butylbenzene	0.5	1.815715	1	1.611961	2	1.607396	5	1.640706	10	1.602946	50	1.626832
Carbon disulfide	0.5	0.7858215	1	0.6896591	2	0.6913353	5	0.7232067	10	0.7509502	50	0.711988
Carbon tetrachloride	0.5	0.2858534	1	0.3054818	2	0.322592	5	0.3254197	10	0.3393713	50	0.3309307
Chlorobenzene	0.5	1.316312	1	1.293493	2	1.292706	5	1.314865	10	1.272897	50	1.198697
Chloroethane	0.5	0.1807101	1	0.1441053	2	0.1621247	5	0.1321144	10	0.1789308	50	0.1562047
Chloroform	0.5	0.4728563	1	0.4937685	2	0.497313	5	0.4692742	10	0.4999221	50	0.4626872
2-Chloroethyl vinyl ether	0.9975	0.1117943	1.995	0.1231848	3.99	0.1390803	9.975	0.1456076	19.95	0.1581281	99.75	0.159035
Chloromethane	0.5	0.3697058	1	0.3754145	2	0.3223509	5	0.3165557	10	0.3258491	50	0.3161815
1-Chlorohexane	0.501	1.36827	1.002	1.272921	2.004	1.198794	5.01	1.243808	10.02	1.243289	50.1	1.209049
2-Chlorotoluene	0.5	1.680488	1	1.731239	2	1.697187	5	1.749113	10	1.734021	50	1.718067
4-Chlorotoluene	0.5	1.829262	1	1.779358	2	1.738436	5	1.80556	10	1.839201	50	1.805999
Cyclohexane	0.5	0.3193105	1	0.2730313	2	0.3226221	5	0.3180858	10	0.3471704	50	0.3488248
Dibromochloromethane	0.5	0.4577034	1	0.5091026	2	0.5393013	5	0.5507077	10	0.5613674	50	0.5478178
1,2-Dibromo-3-chloropropane	0.5	~~0.1001273~~	1	0.1013071	2	0.1052348	5	0.1181647	10	0.1181369	50	0.1285002
1,2-Dibromoethane (EDB)	0.5	0.4444174	1	0.4716357	2	0.4823925	5	0.5067844	10	0.5483033	50	0.5105323
Dibromomethane	0.5	0.1590521	1	0.1884563	2	0.1996273	5	0.1920859	10	0.2007604	50	0.1876595
1,2-Dichlorobenzene	0.5	1.105464	1	1.063757	2	1.016577	5	1.009202	10	1.073579	50	1.055019

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.170368	1	1.189025	2	1.090462	5	1.098028	10	1.151092	50	1.159644
1,4-Dichlorobenzene	0.5	1.233548	1	1.288687	2	1.273443	5	1.192281	10	1.171047	50	1.131966
Dichlorodifluoromethane	0.5	0.3152725	1	0.2994044	2	0.2942955	5	0.3325466	10	0.3591799	50	0.3462217
1,1-Dichloroethane	0.5	0.4112387	1	0.4381107	2	0.4459484	5	0.4257077	10	0.4748405	50	0.4378766
1,2-Dichloroethane	0.5	0.4011177	1	0.3935054	2	0.453678	5	0.4261104	10	0.4378104	50	0.4159968
1,1-Dichloroethene	0.5	0.1698549	1	0.1806263	2	0.1832642	5	0.1759282	10	0.1837654	50	0.1834043
cis-1,2-Dichloroethene	0.5	0.185692	1	0.2178258	2	0.2298976	5	0.2271104	10	0.2411122	50	0.2333006
trans-1,2-Dichloroethene	0.5	0.2231869	1	0.2103633	2	0.2177534	5	0.2057644	10	0.2126566	50	0.2156499
1,2-Dichloroethene (total)	1	0.2044394	2	0.2140945	4	0.2238255	10	0.2164374	20	0.2268844	100	0.2244752
1,2-Dichloropropane	0.5	0.2104439	1	0.2509547	2	0.2513987	5	0.2434349	10	0.2526338	50	0.2528071
1,3-Dichloropropane	0.5	0.7800001	1	0.8724612	2	0.8214503	5	0.8665316	10	0.8543169	50	0.7943883
2,2-Dichloropropane	0.5	0.3578542	1	0.3851383	2	0.3862967	5	0.3716666	10	0.3849003	50	0.3635153
1,1-Dichloropropene	0.5	0.3042076	1	0.2818789	2	0.307163	5	0.3164522	10	0.3320715	50	0.3342827
cis-1,3-Dichloropropene	0.5	0.333784	1	0.387117	2	0.389265	5	0.4110801	10	0.4413035	50	0.4390858
trans-1,3-Dichloropropene	0.5	0.608389	1	0.6874829	2	0.7221219	5	0.7386875	10	0.7753981	50	0.7601071
Diisopropyl Ether	0.5	0.7336956	1	0.7546167	2	0.815219	5	0.8052087	10	0.8808212	50	0.861655
Ethylbenzene	0.5	1.991796	1	2.108929	2	2.112211	5	2.13505	10	2.174285	50	2.095329
Ethyl tert-Butyl Ether	0.5	0.5951477	1	0.6578304	2	0.7283105	5	0.7102012	10	0.7680875	50	0.7676508
Ethyl Methacrylate	0.5	0.4756395	1	0.4813559	2	0.516909	5	0.5932861	10	0.5950089	50	0.6240057
Hexachlorobutadiene	0.5	~~0.4537132~~	1	0.3307785	2	0.2340311	5	0.2478404	10	0.2518845	50	0.2557088
2-Hexanone												
Iodomethane	0.5	~~0.120351~~	1	0.1376039	2	0.1672024	5	0.1893651	10	0.2375727	50	0.2771395
Isopropylbenzene	0.5	1.674592	1	1.464627	2	1.547165	5	1.677859	10	1.717279	50	1.685008
p-Isopropyltoluene	0.5	1.330473	1	1.220622	2	1.190483	5	1.256797	10	1.322767	50	1.366144
Methylene chloride	0.5	0.2457888	1	0.3057927	2	0.278746	5	0.243015	10	0.2468585	50	0.2484226
Methyl Acetate	0.5	0.1755709	1	0.2026181	2	0.2008629	5	0.1984707	10	0.2015995	50	0.1804311
Methylcyclohexane	0.5	0.3356194	1	0.2547142	2	0.2827238	5	0.2703605	10	0.2966588	50	0.2906143
Naphthalene	0.5	1.613613	1	1.189815	2	1.195598	5	1.287733	10	1.344505	50	1.449509
Methyl Methacrylate	0.5	~~0.1355063~~	1	0.1717222	2	0.1905869	5	0.206006	10	0.2258913	50	0.2343712
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.4955631	1	0.5290458	2	0.5893444	5	0.5907874	10	0.6112708	50	0.6046649

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.607743	1	2.521289	2	2.468876	5	2.592185	10	2.634534	50	2.71723
Styrene	0.5	0.9955658	1	1.114936	2	1.170507	5	1.297429	10	1.311166	50	1.353042
1,1,2,2-Tetrachloroethane	0.5	0.7076645	1	0.7026986	2	0.7371055	5	0.755625	10	0.7520057	50	0.700547
1,1,1,2-Tetrachloroethane	0.5	0.444196	1	0.4815915	2	0.4593416	5	0.4749294	10	0.480759	50	0.458459
tert-Butyl alcohol	2.5	1.954983E-02	5	0.0199226	10	2.397818E-02	25	2.389425E-02	50	0.0241751	250	2.271466E-02
Tetrachloroethene	0.5	0.4804004	1	0.4846548	2	0.468562	5	0.4952371	10	0.4745579	50	0.4764023
Toluene	0.5	1.111486	1	1.081357	2	1.097642	5	1.103754	10	1.099934	50	1.028931
1,2,3-Trichlorobenzene	0.5	~~0.8452317~~	1	0.5976395	2	0.5379217	5	0.5191667	10	0.5629618	50	0.5762858
1,2,4-Trichlorobenzene	0.5	0.7800813	1	0.6155443	2	0.6007854	5	0.5734345	10	0.6116645	50	0.6449718
1,1,2-Trichloroethane	0.5	0.3858482	1	0.4262159	2	0.3804596	5	0.4230089	10	0.4002435	50	0.3847709
1,1,1-Trichloroethane	0.5	0.3064625	1	0.3405895	2	0.3687734	5	0.3816696	10	0.38283	50	0.379027
Tetrahydrofuran	0.5		1	5.017398E-02	2	5.181662E-02	5	5.648569E-02	10	5.892641E-02	50	5.891316E-02
Trichloroethene	0.5	0.2505085	1	0.2268147	2	0.2566874	5	0.2478813	10	0.243952	50	0.2455939
Trichlorofluoromethane	0.5	0.3902625	1	0.3936467	2	0.4309865	5	0.4300621	10	0.4457228	50	0.4115715
1,2,3-Trichloropropane	0.5	0.1825721	1	0.1534024	2	0.1818626	5	0.165806	10	0.1783511	50	0.1695884
1,3,5-Trimethylbenzene	0.5	1.727534	1	1.577007	2	1.613204	5	1.666487	10	1.713513	50	1.744944
1,2,4-Trimethylbenzene	0.5	1.611766	1	1.602021	2	1.628285	5	1.729907	10	1.800708	50	1.79169
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2263858	1	0.2238466	2	0.2395257	5	0.2207831	10	0.2260568	50	0.2116512
Vinyl chloride	0.5	0.3243972	1	0.3048317	2	0.3006238	5	0.2961817	10	0.3094522	50	0.3067178
m,p-Xylene	1	1.625157	2	1.572286	4	1.658916	10	1.721801	20	1.742873	100	1.627808
o-Xylene	0.5	1.633295	1	1.690254	2	1.732051	5	1.871485	10	1.835309	50	1.722921
Vinyl acetate	0.9995	~~0.1171058~~	1.999	0.2335318	3.998	0.2451705	9.995	0.2581024	19.99	0.293799	99.95	0.2928919
Xylenes (total)	1.5	1.62787	3	1.611609	6	1.683295	15	1.771696	30	1.773685	150	1.659512
Dibromofluoromethane	30	0.3175126	30	0.3242427	30	0.3448656	30	0.3211449	30	0.3317715	30	0.3254056
1,2-Dichloroethane-d4	30	6.279143E-02	30	6.868324E-02	30	6.651231E-02	30	6.465656E-02	30	6.364869E-02	30	0.0620139
Toluene-d8	30	1.966508	30	1.925585	30	1.906439	30	1.888822	30	1.880824	30	1.887721
tert-Amyl alcohol	2.5		5	1.309329E-02	10	1.154159E-02	25	1.166412E-02	50	1.275219E-02	250	1.361775E-02
tert-Amyl ethyl ether	0.5	0.502695	1	0.5203678	2	0.625491	5	0.6139914	10	0.6545988	50	0.6573529

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1	0.105847	2	0.1742808	4	5.096748E-02
Acrolein	500.2	4.414182E-02	750.3	4.649791E-02	1000	4.140661E-02						
Acrylonitrile	499.8	0.0848897	749.7	8.793166E-02	999.6	8.415217E-02						
Benzene	100	0.8497778	150	0.8373855	200	0.8171406						
Bromobenzene	100	0.6675187	150	0.6743485	200	0.6552954						
Bromochloromethane	100	0.1321641	150	0.132715	200	0.1308496						
Tert-Amyl Methyl Ether	100	0.7368235	150	0.7101052	200	0.6873043						
Bromodichloromethane	100	0.3897356	150	0.3752912	200	0.3550348						
Bromoform	100	0.3959007	150	0.3863964	200	0.3550904						
Bromomethane	100	0.2204624	150	0.2246404	200	0.2188912						
Bromofluorobenzene	30	0.8602053	30	0.803208	30	0.761367						
n-Butylbenzene	100	1.675501	150	1.652966	200	1.483944						
2-Butanone							1	8.448716E-02	2	0.1945445	4	0.0505204
sec-Butylbenzene	100	2.152351	150	2.119305	200	1.926077						
tert-Butylbenzene	100	1.665171	150	1.632057	200	1.529674						
Carbon disulfide	100	0.769641	150	0.7796425	200	0.7665669						
Carbon tetrachloride	100	0.3340849	150	0.3229519	200	0.3154304						
Chlorobenzene	100	1.192884	150	1.0945	200	1.012137						
Chloroethane	100	0.1742306	150	0.1677839	200	0.166191						
Chloroform	100	0.4722785	150	0.4691578	200	0.4523661						
2-Chloroethyl vinyl ether	199.5	0.170606	299.2	0.171585	399	0.1576298						
Chloromethane	100	0.3418796	150	0.3266539	200	0.31687						
1-Chlorohexane	100.2	1.160509	150.3	1.063714	200.4	0.9361916						
2-Chlorotoluene	100	1.720806	150	1.776758	200	1.622321						
4-Chlorotoluene	100	1.867514	150	1.834729	200	1.777154						
Cyclohexane	100	0.3614865	150	0.3662319	200	0.3574002						
Dibromochloromethane	100	0.5553437	150	0.5412887	200	0.4942215						
1,2-Dibromo-3-chloropropane	100	0.1387537	150	0.1522199	200	0.1436069						
1,2-Dibromoethane (EDB)	100	0.5016208	150	0.4924687	200	0.4418377						
Dibromomethane	100	0.1948212	150	0.1987863	200	0.1878698						
1,2-Dichlorobenzene	100	1.0953	150	1.100618	200	1.000342						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.154111	150	1.120568	200	1.077326						
1,4-Dichlorobenzene	100	1.171062	150	1.234115	200	1.129007						
Dichlorodifluoromethane	100	0.3430888	150	0.3053006	200	0.2847898						
1,1-Dichloroethane	100	0.4684626	150	0.4688447	200	0.4526461						
1,2-Dichloroethane	100	0.4265484	150	0.4066324	200	0.3908247						
1,1-Dichloroethene	100	0.193883	150	0.2024271	200	0.1955889						
cis-1,2-Dichloroethene	100	0.2494575	150	0.2547382	200	0.2485001						
trans-1,2-Dichloroethene	100	0.2290056	150	0.2378002	200	0.234169						
1,2-Dichloroethene (total)	200	0.2392315	300	0.2462692	400	0.2413346						
1,2-Dichloropropane	100	0.266367	150	0.2616448	200	0.250989						
1,3-Dichloropropane	100	0.7936719	150	0.7462668	200	0.6950249						
2,2-Dichloropropane	100	0.3745395	150	0.3646956	200	0.3483139						
1,1-Dichloropropene	100	0.3509803	150	0.3487481	200	0.3381829						
cis-1,3-Dichloropropene	100	0.4557198	150	0.4397147	200	0.414939						
trans-1,3-Dichloropropene	100	0.758504	150	0.7321761	200	0.6599538						
Diisopropyl Ether	100	0.9182946	150	0.9444458	200	0.8814371						
Ethylbenzene	100	2.010517	150	1.820262	200	1.621899						
Ethyl tert-Butyl Ether	100	0.79601	150	0.7935578	200	0.7581296						
Ethyl Methacrylate	100	0.6439251	150	0.6213608	200	0.5654902						
Hexachlorobutadiene	100	0.2758719	150	0.2758562	200	0.2781694						
2-Hexanone							1	0.2881206	2	0.6327276	4	0.1488338
Iodomethane	100	0.3136583	150	0.3180348	200	0.3173131						
Isopropylbenzene	100	1.592887	150	1.447012	200	1.291285						
p-Isopropyltoluene	100	1.425295	150	1.451147	200	1.358829						
Methylene chloride	100	0.2585236	150	0.2661379	200	0.262521						
Methyl Acetate	100	0.1973059	150	0.2080119	200	0.2045133						
Methylcyclohexane	100	0.3139667	150	0.3118703	200	0.3052622						
Naphthalene	100	1.545868	150	1.604097	200	1.50932						
Methyl Methacrylate	100	0.254473	150	0.2631975	200	0.2443141						
4-Methyl-2-pentanone							1	0.1770877	2	0.4261594	4	0.1075554
Methyl t-Butyl Ether	100	0.6494634	150	0.6675051	200	0.6440991						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.710927	150	2.650345	200	2.443556						
Styrene	100	1.295377	150	1.21807	200	1.0837						
1,1,2,2-Tetrachloroethane	100	0.7307782	150	0.7599908	200	0.7034689						
1,1,1,2-Tetrachloroethane	100	0.4495324	150	0.4265499	200	0.3843807						
tert-Butyl alcohol	500	2.436558E-02	750	2.635542E-02	1000	2.453721E-02						
Tetrachloroethene	100	0.4796581	150	0.4569133	200	0.4309663						
Toluene	100	1.04685	150	0.9904622	200	0.888493						
1,2,3-Trichlorobenzene	100	0.6212322	150	0.6472567	200	0.6109577						
1,2,4-Trichlorobenzene	100	0.6909017	150	0.7117211	200	0.6767836						
1,1,2-Trichloroethane	100	0.3894174	150	0.3752957	200	0.3479556						
1,1,1-Trichloroethane	100	0.3884127	150	0.3801613	200	0.3690138						
Tetrahydrofuran	100	6.551079E-02	150	0.0698601	200	6.609126E-02						
Trichloroethene	100	0.2589972	150	0.2466661	200	0.2405622						
Trichlorofluoromethane	100	0.4284283	150	0.4142885	200	0.3650779						
1,2,3-Trichloropropane	100	0.1629579	150	0.1604694	200	0.1399491						
1,3,5-Trimethylbenzene	100	1.77897	150	1.775879	200	1.673602						
1,2,4-Trimethylbenzene	100	1.82765	150	1.86087	200	1.689912						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2352064	150	0.2300822	200	0.2276429						
Vinyl chloride	100	0.3212605	150	0.3005812	200	0.288568						
m,p-Xylene	200	1.472616	300	1.311316	400	1.146934						
o-Xylene	100	1.624356	150	1.470446	200	1.324388						
Vinyl acetate	199.9	0.3148223	299.8	0.3256627	399.8	0.3152118						
Xylenes (total)	300	1.523196	450	1.364359	600	1.206085						
Dibromofluoromethane	30	0.3232992	30	0.3192217	30	0.3271106						
1,2-Dichloroethane-d4	30	6.343065E-02	30	6.501569E-02	30	6.786331E-02						
Toluene-d8	30	1.808983	30	1.800037	30	1.766911						
tert-Amyl alcohol	500	0.0154791	750	1.707898E-02	1000	1.630251E-02						
tert-Amyl ethyl ether	100	0.6973876	150	0.668609	200	0.6285211						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	8.091137E-02	20	8.472778E-02	100	8.207723E-02	200	9.158643E-02	300	9.643365E-02	400	8.728197E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	9.396012E-02	20	0.1066098	100	0.1090494	200	0.1243273	300	0.127583	400	0.11917
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3266243	20	0.3671838	100	0.3605019	200	0.4009384	300	0.3907102	400	0.3620698
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.2178156	20	0.25652	100	0.2530097	200	0.2767463	300	0.2728866	400	0.2531124
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	9.490153E-02	35.11874	6.444778	7.760536E-02	0.9962118		0.995	
Acrolein	4.050212E-02	11.66847	6.258667	9.437477E-02			15	
Acrylonitrile	7.995309E-02	8.658338	7.252778	9.125197E-02			15	
Benzene	0.8446166	3.664116	13.05667	1.589406E-02			15	
Bromobenzene	0.6204208	6.899589	18.00311	1.924119E-02			15	
Bromochloromethane	0.1224323	11.09981	11.11556	1.970505E-02			15	
Tert-Amyl Methyl Ether	0.789344	15.52968	13.34812	5.009477E-02	0.9990325		0.995	
Bromodichloromethane	0.3700131	7.358442	13.972	1.995359E-02			15	
Bromoform	0.3580188	10.33213	17.27078	2.718296E-02			SPCC (0.1)	
Bromomethane	0.1720739	28.28296	5.274333	0.1246216	0.9991085		0.995	
Bromofluorobenzene	0.8788963	6.739097	17.81833	1.483661E-02			15	
n-Butylbenzene	1.598974	5.569195	19.22844	2.286585E-02			15	
2-Butanone	0.1122502	34.73114	10.50111	0.1547187	0.9977852		0.995	
sec-Butylbenzene	2.053309	4.166657	18.75544	1.897686E-02			15	
tert-Butylbenzene	1.63694	4.685218	18.88344	2.463795E-02			15	
Carbon disulfide	0.740979	5.080183	7.879111	5.470964E-02			15	
Carbon tetrachloride	0.3202351	5.101441	13.02378	3.460528E-02			15	
Chlorobenzene	1.220943	8.778402	16.85467	0.0230222			SPCC (0.3)	
Chloroethane	0.1624884	9.928626	5.469222	0.1098749			15	
Chloroform	0.4766249	3.471597	11.21956	4.506429E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1485168	13.86846	14.50733	1.998157E-02			15	
Chloromethane	0.3346068	6.864147	4.501333	9.992679E-02			SPCC (0.1)	
1-Chlorohexane	1.188505	10.56141	16.79667	2.801282E-02			15	
2-Chlorotoluene	1.714444	2.587337	18.22233	1.820615E-02			15	
4-Chlorotoluene	1.808579	2.168035	18.28244	2.250717E-02			15	
Cyclohexane	0.3349071	8.859817	12.92533	3.469135E-02			15	
Dibromochloromethane	0.5285393	6.523615	15.86844	1.945299E-02			15	
1,2-Dibromo-3-chloropropane	0.1257405	14.50957	19.63	1.043451E-02			15	
1,2-Dibromoethane (EDB)	0.4888881	6.870215	16.09711	2.927393E-02			15	
Dibromomethane	0.1899021	6.669569	13.811	3.487788E-02			15	
1,2-Dichlorobenzene	1.057762	3.835274	19.22289	2.075924E-02			15	
1,3-Dichlorobenzene	1.134514	3.453945	18.85289	1.935345E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.202795	4.819416	18.90456	2.053349E-02			15	
Dichlorodifluoromethane	0.3200111	8.175819	4.247333	8.114501E-02			15	
1,1-Dichloroethane	0.4470751	4.771398	9.410889	8.676498E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4169138	5.052933	12.32422	0.0374402			15	
1,1-Dichloroethene	0.1854158	5.496992	7.196	0.1042799			CCC (20)	
cis-1,2-Dichloroethene	0.2319594	9.084585	10.82756	5.739556E-02			15	
trans-1,2-Dichloroethene	0.2207055	5.009181	8.807556	6.191007E-02			15	
1,2-Dichloroethene (total)	0.2263324	6.102083	0	0			15	
1,2-Dichloropropane	0.2489638	6.382973	13.86356	5.219406E-02			CCC (20)	
1,3-Dichloropropane	0.8026791	7.291224	15.623	2.647444E-02			15	
2,2-Dichloropropane	0.3707689	3.5969	11.38489	4.647936E-02			15	
1,1-Dichloropropene	0.3237741	7.092263	12.79167	2.414198E-02			15	
cis-1,3-Dichloropropene	0.4124454	9.205903	14.75367	0.0185918			15	
trans-1,3-Dichloropropene	0.7158689	7.591687	15.22011	3.309427E-02			15	
Diisopropyl Ether	0.8439326	8.500125	10.62278	4.151538E-02			15	
Ethylbenzene	2.007809	8.927793	17.00811	1.805769E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.7305473	9.162288	11.41556	5.227118E-02			15	
Ethyl Methacrylate	0.5685535	11.08372	15.66144	2.984729E-02			15	
Hexachlorobutadiene	0.2687676	11.01457	21.325	1.935315E-02			15	
2-Hexanone	0.36419	34.70086	15.77833	3.425747E-02	0.9969121		0.995	
Iodomethane	0.2447362	29.72528	7.25	5.559583E-02	0.9993686		0.995	
Isopropylbenzene	1.566413	9.09391	17.77767	1.866152E-02			15	
p-Isopropyltoluene	1.324729	6.671375	18.577	1.302539E-02			15	
Methylene chloride	0.2617562	7.716747	7.451111	6.731063E-02			15	
Methyl Acetate	0.1965983	5.62942	7.501333	6.414553E-02			15	
Methylcyclohexane	0.2957545	8.279769	14.56322	3.038008E-02			15	
Naphthalene	1.415562	11.77932	21.29878	2.340518E-02			15	
Methyl Methacrylate	0.2238203	14.29097	14.197	3.587692E-02			15	
4-Methyl-2-pentanone	0.2489881	34.48075	14.88256	3.876822E-02	0.9973122		0.995	
Methyl t-Butyl Ether	0.5979716	9.385891	9.119667	0.1432835			15	
n-Propylbenzene	2.594076	3.792861	18.12478	0.0225021			15	
Styrene	1.204421	10.08127	17.42844	2.425388E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0349002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Date:	12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.7277649	3.387486	17.50067	1.931054E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4510822	6.834532	16.79667	2.801282E-02			15	
tert-Butyl alcohol	2.327698E-02	9.532707	7.205778	0.1024445			15	
Tetrachloroethene	0.471928	3.948895	16.27244	2.373135E-02			15	
Toluene	1.049879	6.942362	15.56067	1.745815E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5841777	7.413424	21.56625	2.862758E-02			15	
1,2,4-Trichlorobenzene	0.6562098	9.896622	21.001	2.452696E-02			15	
1,1,2-Trichloroethane	0.3903573	6.159439	15.37567	2.739238E-02			15	
1,1,1-Trichloroethane	0.3663266	7.22728	12.49844	0.0358237			15	
Tetrahydrofuran	5.972225E-02	11.70861	11.82475	0.1139163			15	
Trichloroethene	0.246407	3.817773	13.93467	0.0212948			15	
Trichlorofluoromethane	0.4122274	6.130862	6.301444	9.080712E-02			15	
1,2,3-Trichloropropane	0.1661066	8.430506	17.61244	2.391162E-02			15	
1,3,5-Trimethylbenzene	1.696793	4.132945	18.33167	2.167581E-02			15	
1,2,4-Trimethylbenzene	1.726979	5.706479	18.65689	1.854308E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2267979	3.552182	7.568111	9.178277E-02			15	
Vinyl chloride	0.305846	3.734151	4.731333	0.1367484			CCC (20)	
m,p-Xylene	1.54219	12.88011	17.16233	2.624017E-02			15	
o-Xylene	1.656056	10.36993	17.491	1.445182E-02			15	
Vinyl acetate	0.284899	12.27004	9.73825	5.344834E-02			15	
Xylenes (total)	1.580145	11.92563	0	0			15	
Dibromofluoromethane	0.3260638	2.526002	11.42756	0.0353478			15	
1,2-Dichloroethane-d4	6.495731E-02	3.537328	12.20267	3.612929E-02			15	
Toluene-d8	1.870203	3.473583	15.48944	1.871955E-02			15	
tert-Amyl alcohol	1.394119E-02	15.08696	12.066	5.701451E-02	0.9971839		0.995	
tert-Amyl ethyl ether	0.6187794	10.65214	14.43178	3.505809E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	4.174688E-02	5.002	3.856662E-02	10	3.437694E-02	25.01	0.0182728	50.02	2.123273E-02	250.1	2.231178E-02
Acrylonitrile	2.499	8.812904E-02	4.998	9.406873E-02	9.996	0.0929386	24.99	8.482993E-02	49.98	8.920213E-02	249.9	0.0947401
Benzene	0.5	0.9450861	1	0.9445345	2	0.9601675	5	0.7906232	10	0.8303345	50	0.9313922
Bromobenzene	0.5	0.6901022	1	0.7277522	2	0.7131113	5	0.6167644	10	0.6117274	50	0.6670966
Bromochloromethane	0.5	0.1127303	1	0.1182802	2	0.1343138	5	0.1049976	10	0.1151616	50	0.1285619
Tert-Amyl Methyl Ether	0.5	1.302566	1	0.9818719	2	0.8637552	5	0.6393085	10	0.6435684	50	0.6867683
Bromodichloromethane	0.5	0.2417891	1	0.263474	2	0.2505831	5	0.2107564	10	0.2319654	50	0.2775319
Bromoform	0.5	0.1289722	1	0.158804	2	0.168964	5	0.1489188	10	0.1619209	50	0.2570554
Bromomethane	0.5	0.1030408	1	0.1144611	2	0.1266765	5	0.1117067	10	0.1211445	50	0.1530205
Bromofluorobenzene	30	0.9654507	30	0.9976207	30	0.9729897	30	0.9746357	30	0.9380772	30	0.9440315
n-Butylbenzene	0.5	1.646562	1	1.487912	2	1.505232	5	1.25586	10	1.305682	50	1.410369
2-Butanone												
sec-Butylbenzene	0.5	1.995622	1	1.908844	2	1.974981	5	1.658612	10	1.753382	50	1.861187
tert-Butylbenzene	0.5	1.783234	1	1.683892	2	1.6604	5	1.393317	10	1.432726	50	1.554201
Carbon disulfide	0.5	0.6470439	1	0.6175059	2	0.6224395	5	0.5547088	10	0.6000347	50	0.6855299
Carbon tetrachloride	0.5	0.1950462	1	0.1928653	2	0.1925396	5	0.1680897	10	0.1865131	50	0.2307491
Chlorobenzene	0.5	1.572188	1	1.610476	2	1.613768	5	1.428043	10	1.392237	50	1.500533
Chloroethane	0.5	0.1176199	1	0.122616	2	0.1416319	5	0.1087992	10	0.1205354	50	0.1326353
Chloroform	0.5	0.4176807	1	0.4252921	2	0.4327724	5	0.363699	10	0.3708593	50	0.4130013
2-Chloroethyl vinyl ether	0.9975	0.1493271	1.995	0.1724823	3.99	0.1803491	9.975	0.1691201	19.95	0.1790793	99.75	0.1905536
Chloromethane	0.5	0.2682559	1	0.2554314	2	0.2448722	5	0.2256467	10	0.2384448	50	0.2548898
1-Chlorohexane	0.501	~~1.647162~~	1.002	1.445846	2.004	1.317613	5.01	1.115964	10.02	1.160985	50.1	1.236553
2-Chlorotoluene	0.5	1.686326	1	1.696742	2	1.73084	5	1.435526	10	1.515527	50	1.629684
4-Chlorotoluene	0.5	1.796726	1	1.764991	2	1.852982	5	1.526457	10	1.517603	50	1.651782
Cyclohexane	0.5	0.3487326	1	0.3500331	2	0.3624181	5	0.3024825	10	0.3323924	50	0.3642405
Dibromochloromethane	0.5	0.287537	1	0.3016567	2	0.2977243	5	0.2621412	10	0.2878156	50	0.3996691
1,2-Dibromo-3-chloropropane	0.5	6.563709E-02	1	8.732219E-02	2	9.957113E-02	5	7.942185E-02	10	0.0891781	50	0.116438
1,2-Dibromoethane (EDB)	0.5	0.4739428	1	0.4789681	2	0.5254348	5	0.4569947	10	0.4599806	50	0.5142327
Dibromomethane	0.5	0.1568265	1	0.156741	2	0.1561314	5	0.1410607	10	0.1496321	50	0.1626659
1,2-Dichlorobenzene	0.5	1.106465	1	1.190871	2	1.205924	5	1.018199	10	1.054561	50	1.112184

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.320917	1	1.283567	2	1.228413	5	1.058958	10	1.055012	50	1.114619
1,4-Dichlorobenzene	0.5	1.295837	1	1.28187	2	1.253957	5	1.11242	10	1.109189	50	1.182666
Dichlorodifluoromethane	0.5	0.1389278	1	0.1524051	2	0.1463283	5	0.1766836	10	0.1839105	50	0.1993881
1,1-Dichloroethane	0.5	0.4157966	1	0.4144189	2	0.4390419	5	0.3635615	10	0.3985996	50	0.4423158
1,2-Dichloroethane	0.5	0.3159408	1	0.3301288	2	0.3480555	5	0.3015883	10	0.3109418	50	0.353778
1,1-Dichloroethene	0.5	0.1789868	1	0.1828008	2	0.1900318	5	0.1562674	10	0.1692743	50	0.181869
cis-1,2-Dichloroethene	0.5	0.2312025	1	0.2491635	2	0.2613665	5	0.2114764	10	0.2262777	50	0.2437411
trans-1,2-Dichloroethene	0.5	0.2189111	1	0.2242045	2	0.2265313	5	0.1890057	10	0.2015217	50	0.2203565
1,2-Dichloroethene (total)	1	0.2250568	2	0.236684	4	0.2439489	10	0.2002411	20	0.2138997	100	0.2320488
1,2-Dichloropropane	0.5	0.2446153	1	0.2612948	2	0.2731986	5	0.2334747	10	0.2494524	50	0.2687378
1,3-Dichloropropane	0.5	0.7346529	1	0.8406911	2	0.7854829	5	0.7218122	10	0.7288621	50	0.793316
2,2-Dichloropropane	0.5	0.2742221	1	0.2996208	2	0.3337042	5	0.2680795	10	0.2913534	50	0.3242719
1,1-Dichloropropene	0.5	0.306027	1	0.3177728	2	0.3203218	5	0.2644934	10	0.2915432	50	0.3289568
cis-1,3-Dichloropropene	0.5	0.3790572	1	0.3451132	2	0.3648233	5	0.3270214	10	0.3452412	50	0.3960097
trans-1,3-Dichloropropene	0.5	0.5783928	1	0.6151467	2	0.631991	5	0.578027	10	0.5860145	50	0.7159333
Diisopropyl Ether	0.5	0.7792429	1	0.8091132	2	0.8432713	5	0.7376383	10	0.8046673	50	0.9065105
Ethylbenzene	0.5	2.732016	1	2.688971	2	2.678361	5	2.352547	10	2.351156	50	2.522577
Ethyl tert-Butyl Ether	0.5	0.6343489	1	0.6202018	2	0.7138933	5	0.6155446	10	0.6746352	50	0.7594678
Ethyl Methacrylate	0.5	0.4118997	1	0.4906122	2	0.5220805	5	0.5174347	10	0.549863	50	0.6524213
Hexachlorobutadiene	0.5	0.4299349	1	0.3394291	2	0.3167539	5	0.2557823	10	0.2622533	50	0.2950244
2-Hexanone												
Iodomethane	0.5	0.2030311	1	0.2374142	2	0.2544815	5	0.2271554	10	0.2691064	50	0.3379317
Isopropylbenzene	0.5	2.263236	1	2.256201	2	2.150328	5	1.859399	10	1.900794	50	2.037782
p-Isopropyltoluene	0.5	1.464414	1	1.464556	2	1.450106	5	1.218854	10	1.266581	50	1.392999
Methylene chloride	0.5	0.2711268	1	0.2560604	2	0.2608307	5	0.216929	10	0.2245747	50	0.2474163
Methyl Acetate	0.5	0.1554359	1	0.1554829	2	0.1804453	5	0.1730057	10	0.1657769	50	0.1786944
Methylcyclohexane	0.5	0.3002402	1	0.2875793	2	0.2932379	5	0.239262	10	0.2542406	50	0.2856919
Naphthalene	0.5	1.759582	1	1.656859	2	1.741664	5	1.546642	10	1.593499	50	1.691168
Methyl Methacrylate	0.5	~~0.1305392~~	1	0.1789817	2	0.2066857	5	0.1890241	10	0.2081253	50	0.2350489
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5773333	1	0.5521541	2	0.6045546	5	0.5151834	10	0.5567914	50	0.6095863

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.639294	1	2.498158	2	2.578066	5	2.140346	10	2.26532	50	2.368618
Styrene	0.5	1.646769	1	1.683039	2	1.689876	5	1.487873	10	1.533405	50	1.697697
1,1,2,2-Tetrachloroethane	0.5	0.5398591	1	0.5247009	2	0.5635804	5	0.51062	10	0.5171534	50	0.5283282
1,1,1,2-Tetrachloroethane	0.5	0.3488426	1	0.3412749	2	0.3801394	5	0.322724	10	0.3422563	50	0.4448147
tert-Butyl alcohol	2.5	1.327822E-02	5	1.674569E-02	10	1.886982E-02	25	1.588996E-02	50	1.784126E-02	250	1.967488E-02
Tetrachloroethene	0.5	0.6406202	1	0.6545282	2	0.6377782	5	0.5346161	10	0.5477381	50	0.6023662
Toluene	0.5	1.414269	1	1.377359	2	1.396002	5	1.181169	10	1.206687	50	1.344946
1,2,3-Trichlorobenzene	0.5	0.8203446	1	0.678333	2	0.7123323	5	0.6086772	10	0.6157404	50	0.6759281
1,2,4-Trichlorobenzene	0.5	0.9057442	1	0.8130136	2	0.7674788	5	0.6668867	10	0.6800235	50	0.7520681
1,1,2-Trichloroethane	0.5	0.396873	1	0.3997791	2	0.4098788	5	0.3680968	10	0.3551403	50	0.3981433
1,1,1-Trichloroethane	0.5	0.281893	1	0.3139537	2	0.3242203	5	0.2726791	10	0.2948391	50	0.3425316
Tetrahydrofuran	0.5		1	6.847448E-02	2	8.919676E-02	5	5.020587E-02	10	6.195551E-02	50	6.901773E-02
Trichloroethene	0.5	0.2699605	1	0.2436371	2	0.2654701	5	0.218424	10	0.2377842	50	0.2530296
Trichlorofluoromethane	0.5	0.3386394	1	0.3350936	2	0.3020265	5	0.2659838	10	0.323219	50	0.3484605
1,2,3-Trichloropropane	0.5	0.1858527	1	0.1820921	2	0.1840108	5	0.1658145	10	0.1733853	50	0.1844241
1,3,5-Trimethylbenzene	0.5	1.790377	1	1.782205	2	1.846771	5	1.513009	10	1.576872	50	1.702232
1,2,4-Trimethylbenzene	0.5	1.812917	1	1.847747	2	1.858682	5	1.619601	10	1.648693	50	1.759763
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1936108	1	0.1925058	2	0.1886412	5	0.1547449	10	0.1638115	50	0.1823678
Vinyl chloride	0.5	0.1927584	1	0.2128595	2	0.2191676	5	0.2064686	10	0.2130142	50	0.2258966
m,p-Xylene	1	2.121772	2	2.212015	4	2.166852	10	1.819283	20	1.836202	100	1.877009
o-Xylene	0.5	2.314493	1	2.293783	2	2.357228	5	1.977641	10	1.988426	50	2.028044
Vinyl acetate	0.9995	0.1751716	1.999	0.1999408	3.998	0.2268043	9.995	0.2095772	19.99	0.2278334	99.95	0.2776192
Xylenes (total)	1.5	2.186013	3	2.239271	6	2.23031	15	1.872069	30	1.886943	150	1.927354
Dibromofluoromethane	30	0.2525456	30	0.2445447	30	0.2526273	30	0.2533062	30	0.256516	30	0.2537646
1,2-Dichloroethane-d4	30	5.166318E-02	30	0.0532115	30	5.406673E-02	30	0.0546442	30	5.428525E-02	30	5.442078E-02
Toluene-d8	30	2.148376	30	2.223719	30	2.192669	30	2.225586	30	2.172303	30	2.222292
tert-Amyl alcohol	2.5		5		10	6.248903E-03	25	8.228846E-03	50	1.007245E-02	250	0.0118877
tert-Amyl ethyl ether	0.5	0.572668	1	0.6344448	2	0.6783855	5	0.5715893	10	0.6319354	50	0.6843155

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1		2	6.406994E-02	4	7.071503E-02
Acrolein	500.2	2.434642E-02	750.3	2.469596E-02	1000	2.489138E-02						
Acrylonitrile	499.8	9.009096E-02	749.7	8.852763E-02	999.6	8.715111E-02						
Benzene	100	0.8591368	150	0.874036	200	0.8544628						
Bromobenzene	100	0.6315675	150	0.644393	200	0.6232382						
Bromochloromethane	100	0.1265465	150	0.1271653	200	0.1314299						
Tert-Amyl Methyl Ether	100	0.6533226	150	0.6568199	200	0.6519255						
Bromodichloromethane	100	0.2810268	150	0.2984811	200	0.3002115						
Bromoform	100	0.3080016	150	0.3289292	200	0.3383705						
Bromomethane	100	0.1542462	150	0.160917	200	0.1676897						
Bromofluorobenzene	30	0.9221641	30	0.8931842	30	0.8807035						
n-Butylbenzene	100	1.28482	150	1.268822	200	1.198306						
2-Butanone							1		2	~~6.112032E-02~~	4	8.168678E-02
sec-Butylbenzene	100	1.710573	150	1.652867	200	1.549203						
tert-Butylbenzene	100	1.389272	150	1.379273	200	1.30316						
Carbon disulfide	100	0.6556263	150	0.6806134	200	0.6874371						
Carbon tetrachloride	100	0.2441366	150	0.2714559	200	0.2793467						
Chlorobenzene	100	1.355558	150	1.27044	200	1.18457						
Chloroethane	100	0.1274796	150	0.1302818	200	0.1322151						
Chloroform	100	0.3954016	150	0.4013895	200	0.404641						
2-Chloroethyl vinyl ether	199.5	0.1817779	299.2	0.1780828	399	0.1745018						
Chloromethane	100	0.2402618	150	0.2464277	200	0.2469677						
1-Chlorohexane	100.2	1.086129	150.3	1.023107	200.4	0.9520627						
2-Chlorotoluene	100	1.470217	150	1.47051	200	1.37839						
4-Chlorotoluene	100	1.573298	150	1.474768	200	1.377673						
Cyclohexane	100	0.3294888	150	0.3470529	200	0.3406395						
Dibromochloromethane	100	0.4385027	150	0.4611073	200	0.4689702						
1,2-Dibromo-3-chloropropane	100	0.1290742	150	0.1378229	200	0.13973						
1,2-Dibromoethane (EDB)	100	0.4830722	150	0.4673939	200	0.4486473						
Dibromomethane	100	0.1560727	150	0.1600483	200	0.1591782						
1,2-Dichlorobenzene	100	1.036517	150	1.028762	200	0.994313						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.042642	150	1.024408	200	0.9856162						
1,4-Dichlorobenzene	100	1.066003	150	1.059164	200	1.02387						
Dichlorodifluoromethane	100	0.1835344	150	0.1921129	200	0.1898329						
1,1-Dichloroethane	100	0.4169053	150	0.4278885	200	0.4229295						
1,2-Dichloroethane	100	0.3353864	150	0.3389994	200	0.3384457						
1,1-Dichloroethene	100	0.1734232	150	0.1778938	200	0.1793694						
cis-1,2-Dichloroethene	100	0.2368708	150	0.2383321	200	0.2420432						
trans-1,2-Dichloroethene	100	0.2088602	150	0.2167202	200	0.2176827						
1,2-Dichloroethene (total)	200	0.2228655	300	0.2275261	400	0.2298629						
1,2-Dichloropropane	100	0.2549546	150	0.2626206	200	0.2581664						
1,3-Dichloropropane	100	0.7303698	150	0.7112875	200	0.6821312						
2,2-Dichloropropane	100	0.3110273	150	0.3203295	200	0.320099						
1,1-Dichloropropene	100	0.3085004	150	0.3153698	200	0.3168351						
cis-1,3-Dichloropropene	100	0.3765932	150	0.394969	200	0.3897065						
trans-1,3-Dichloropropene	100	0.6864452	150	0.6702737	200	0.6471334						
Diisopropyl Ether	100	0.8647914	150	0.8746462	200	0.8756846						
Ethylbenzene	100	2.184514	150	1.966455	200	1.734642						
Ethyl tert-Butyl Ether	100	0.7388558	150	0.7552995	200	0.7588755						
Ethyl Methacrylate	100	0.6300261	150	0.6021328	200	0.5776199						
Hexachlorobutadiene	100	0.2870466	150	0.3059458	200	0.2945441						
2-Hexanone							1	0.2314365	2	0.2168539	4	0.2976913
Iodomethane	100	0.3288645	150	0.3402867	200	0.3331268						
Isopropylbenzene	100	1.787431	150	1.632921	200	1.498208						
p-Isopropyltoluene	100	1.284872	150	1.298624	200	1.236749						
Methylene chloride	100	0.2311665	150	0.2386509	200	0.2405573						
Methyl Acetate	100	0.1731505	150	0.1688837	200	0.1706533						
Methylcyclohexane	100	0.2599595	150	0.2751915	200	0.2711709						
Naphthalene	100	1.630735	150	1.601884	200	1.518371						
Methyl Methacrylate	100	0.2349797	150	0.2364306	200	0.2332994						
4-Methyl-2-pentanone							1	0.1663313	2	0.1780584	4	0.2206147
Methyl t-Butyl Ether	100	0.5918165	150	0.5979816	200	0.6001929						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.103864	150	2.000709	200	1.794426						
Styrene	100	1.530731	150	1.431279	200	1.33186						
1,1,2,2-Tetrachloroethane	100	0.5114625	150	0.5095915	200	0.5059235						
1,1,1,2-Tetrachloroethane	100	0.4486254	150	0.4547539	200	0.4469388						
tert-Butyl alcohol	500	2.033629E-02	750	1.974109E-02	1000	2.023323E-02						
Tetrachloroethene	100	0.5530041	150	0.5350682	200	0.5171413						
Toluene	100	1.214221	150	1.160405	200	1.106291						
1,2,3-Trichlorobenzene	100	0.6340291	150	0.6469382	200	0.6313732						
1,2,4-Trichlorobenzene	100	0.6994536	150	0.7084606	200	0.6941565						
1,1,2-Trichloroethane	100	0.3693556	150	0.3562313	200	0.3431521						
1,1,1-Trichloroethane	100	0.3316693	150	0.3510886	200	0.3502134						
Tetrahydrofuran	100	6.833676E-02	150	6.538021E-02	200	6.745593E-02						
Trichloroethene	100	0.2392579	150	0.246636	200	0.2418878						
Trichlorofluoromethane	100	0.3227814	150	0.3307451	200	0.3373636						
1,2,3-Trichloropropane	100	0.1776636	150	0.1654827	200	0.1650215						
1,3,5-Trimethylbenzene	100	1.55152	150	1.50816	200	1.411114						
1,2,4-Trimethylbenzene	100	1.608313	150	1.572028	200	1.463352						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1660749	150	0.1749342	200	0.1723987						
Vinyl chloride	100	0.2086229	150	0.2154134	200	0.2106935						
m,p-Xylene	200	1.580116	300	~~1.383295~~	400	~~1.201173~~						
o-Xylene	100	1.800962	150	1.638327	200	~~1.493609~~						
Vinyl acetate	199.9	0.2697766	299.8	0.279667	399.8	0.2764555						
Xylenes (total)	300	1.653732	450	1.468305	600	~~1.298651~~						
Dibromofluoromethane	30	0.2528044	30	0.251013	30	0.2556936						
1,2-Dichloroethane-d4	30	5.378122E-02	30	5.382132E-02	30	5.542951E-02						
Toluene-d8	30	2.152698	30	2.055283	30	2.043852						
tert-Amyl alcohol	500	1.353586E-02	750	1.340962E-02	1000	1.365648E-02						
tert-Amyl ethyl ether	100	0.6468393	150	0.6516456	200	0.6379997						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone			20	6.383628E-02	100	7.013675E-02	200	0.0665478	300	6.919478E-02	400	6.688945E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone			20	9.830393E-02	100	0.1132809	200	0.1065002	300	0.1107993	400	0.1072699
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone			20	0.3324512	100	0.3830236	200	0.3569186	300	0.3640624	400	0.3449918
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone			20	0.231484	100	0.2580018	200	0.2405014	300	0.2460843	400	0.2297922
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.734143E-02	4.131886	5.272857	0.1204455			15	
Acrolein	2.782683E-02	29.73532	5.112667	7.753974E-02	0.9993957		0.995	
Acrylonitrile	8.996425E-02	3.703462	5.939	7.312255E-02			15	
Benzene	0.8877526	6.724026	11.99533	2.484545E-02			15	
Bromobenzene	0.658417	6.565181	17.135	2.232344E-02			15	
Bromochloromethane	0.1221319	8.014157	9.435667	4.957178E-02			15	
Tert-Amyl Methyl Ether	0.7866563	28.95886	12.35033	2.602954E-02	0.999865		0.995	
Bromodichloromethane	0.2617577	11.6682	13.01144	1.351069E-02			15	
Bromoform	0.2222152	38.32122	16.42833	2.210761E-02	0.9968521		SPCC (0.1)	
Bromomethane	0.134767	17.95102	4.303	7.115313E-02	0.9986444		0.995	
Bromofluorobenzene	0.9432064	4.141834	16.96967	9.33719E-03			15	
n-Butylbenzene	1.373729	10.74547	18.31367	9.119014E-03			15	
2-Butanone	0.1029735	11.26933	8.704167	0.2876742			15	
sec-Butylbenzene	1.78503	8.794839	17.86833	8.658072E-03			15	
tert-Butylbenzene	1.508831	11.07756	17.99367	4.489641E-03			15	
Carbon disulfide	0.6389933	6.986358	6.467667	9.799745E-02			15	
Carbon tetrachloride	0.2178602	18.32864	11.952	0.0271791	0.9966548		0.995	
Chlorobenzene	1.436424	10.55311	16.022	1.374265E-02			SPCC (0.3)	
Chloroethane	0.1259794	7.710992	4.464333	8.993927E-02			15	
Chloroform	0.4027485	5.782466	9.585667	3.428825E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1750304	6.523102	13.61756	4.415385E-02			15	
Chloromethane	0.2467998	4.887919	3.656	8.056094E-02			SPCC (0.1)	
1-Chlorohexane	1.167282	13.78944	15.985	1.315906E-02			15	
2-Chlorotoluene	1.557085	8.347254	17.35333	6.828885E-03			15	
4-Chlorotoluene	1.615142	9.996862	17.41433	1.315012E-02			15	
Cyclohexane	0.3419423	5.528723	11.84133	5.030834E-02			15	
Dibromochloromethane	0.3561249	23.7061	15.00533	1.372953E-02	0.9986537		0.995	
1,2-Dibromo-3-chloropropane	0.1049106	25.64299	18.65733	2.335638E-02	0.9982178		0.995	
1,2-Dibromoethane (EDB)	0.4787408	5.397178	15.23767	1.253351E-02			15	
Dibromomethane	0.155373	4.148513	12.83	2.483071E-02			15	
1,2-Dichlorobenzene	1.083088	7.010621	18.285	8.946731E-03			15	
1,3-Dichlorobenzene	1.123795	10.89399	17.944	1.601189E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.153886	8.916754	17.993	1.058319E-02			15	
Dichlorodifluoromethane	0.1736804	12.6814	3.449667	0.0911626			15	
1,1-Dichloroethane	0.4157175	5.684783	7.742	5.272704E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3303627	5.286019	11.13189	3.819698E-02			15	
1,1-Dichloroethene	0.1766574	5.439883	5.899556	6.016249E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2378304	5.961484	9.068667	7.826884E-02			15	
trans-1,2-Dichloroethene	0.2137549	5.616217	7.240333	7.187083E-02			15	
1,2-Dichloroethene (total)	0.2257926	5.66826	0	0			15	
1,2-Dichloropropane	0.2562795	4.808453	12.895	2.236072E-02			CCC (20)	
1,3-Dichloropropane	0.7476228	6.565771	14.762	1.645115E-02			15	
2,2-Dichloropropane	0.3047453	7.536233	9.817	6.765373E-02			15	
1,1-Dichloropropene	0.3077578	6.277739	11.69733	3.520369E-02			15	
cis-1,3-Dichloropropene	0.3687261	6.715723	13.85867	2.725416E-02			15	
trans-1,3-Dichloropropene	0.6343731	7.849772	14.353	2.839321E-02			15	
Diisopropyl Ether	0.8328406	6.498419	8.845667	4.787607E-02			15	
Ethylbenzene	2.356804	14.6307	16.18733	2.521386E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6967914	8.80672	9.904556	4.608595E-02			15	
Ethyl Methacrylate	0.5504545	13.59658	14.83656	5.480763E-02			15	
Hexachlorobutadiene	0.3096349	16.75068	20.199	1.725689E-02	0.9992167		0.995	
2-Hexanone	0.3159287	19.62314	14.95788	0.1536743	0.9985677		0.995	
Iodomethane	0.2812665	19.26399	5.943	0.102056	0.9996984		0.995	
Isopropylbenzene	1.931811	13.91947	16.94	1.393468E-02			15	
p-Isopropyltoluene	1.341973	7.51519	17.70033	1.045186E-02			15	
Methylene chloride	0.2430347	7.249268	6.115889	6.876087E-02			15	
Methyl Acetate	0.1690587	5.282551	6.153333	0.1019137			15	
Methylcyclohexane	0.2740638	7.278646	13.64433	2.119816E-02			15	
Naphthalene	1.637823	5.048973	20.15867	1.530895E-02			15	
Methyl Methacrylate	0.2153219	10.65267	13.299	6.891426E-02			15	
4-Methyl-2-pentanone	0.2213585	14.68593	14.01325	5.837834E-02			15	
Methyl t-Butyl Ether	0.5783993	5.415197	7.494	8.264436E-02			15	
n-Propylbenzene	2.265422	12.4461	17.27367	1.504421E-02			15	
Styrene	1.55917	8.296739	16.606	2.160731E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5234688	3.543321	16.66756	6.055184E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3922633	14.19435	15.965	1.611869E-02			15	
tert-Butyl alcohol	1.806783E-02	13.17667	5.901556	8.978124E-02			15	
Tetrachloroethene	0.5803178	9.212702	15.42567	1.615863E-02			15	
Toluene	1.266817	9.153244	14.69622	1.173103E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6692996	9.814259	20.39467	2.147976E-02			15	
1,2,4-Trichlorobenzene	0.7430317	10.34887	19.89633	1.991692E-02			15	
1,1,2-Trichloroethane	0.3774056	6.376428	14.50167	8.979918E-03			15	
1,1,1-Trichloroethane	0.3181209	9.211913	11.33911	4.512402E-02			15	
Tetrahydrofuran	6.750291E-02	15.92611	10.47212	0.1226981	0.9994273		0.995	
Trichloroethene	0.2462319	6.256117	12.97667	2.763548E-02			15	
Trichlorofluoromethane	0.3227014	7.743543	5.156222	6.336786E-02			15	
1,2,3-Trichloropropane	0.1759719	4.977682	16.77467	1.222676E-02			15	
1,3,5-Trimethylbenzene	1.631362	9.359366	17.476	2.218609E-02			15	
1,2,4-Trimethylbenzene	1.6879	8.163573	17.77867	7.414698E-03			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1765655	7.73711	6.211	8.515101E-02			15	
Vinyl chloride	0.211655	4.326316	3.853889	5.652913E-02			CCC (20)	
m,p-Xylene	1.94475	11.82239	16.344	2.217847E-02			15	
o-Xylene	2.049863	12.57041	16.66062	1.171739E-02			15	
Vinyl acetate	0.238094	16.4196	8.031333	0.1635173	0.9997745		0.995	
Xylenes (total)	1.933	14.44837	0	0			15	
Dibromofluoromethane	0.2525351	1.358663	9.895667	6.587298E-02			15	
1,2-Dichloroethane-d4	5.392485E-02	1.948573	10.978	4.105036E-02			15	
Toluene-d8	2.159642	3.19565	14.62256	6.619058E-03			15	
tert-Amyl alcohol	1.100569E-02	26.54099	10.834	5.509799E-02	0.9993611		0.995	
tert-Amyl ethyl ether	0.6344248	6.268733	13.53989	1.578894E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	50.47	0.8446166	0.8525389		0.9	20
Bromobenzene	A	50.00	53.18	0.6204208	0.6598372		6.4	20
Bromochloromethane	A	50.00	53.82	0.1224323	0.1317814		7.6	20
Bromodichloromethane	A	50.00	50.08	0.3700131	0.3705788		0.2	20
Bromoform	A	50.00	55.44	0.3580188	0.3969678	0.1	10.9	20
Bromomethane	L	50.00	42.68	0.1720739	0.1828664		-14.6	20
n-Butylbenzene	A	50.00	52.55	1.598974	1.680413		5.1	20
sec-Butylbenzene	A	50.00	53.19	2.053309	2.184335		6.4	20
tert-Butylbenzene	A	50.00	51.40	1.63694	1.682618		2.8	20
Carbon disulfide	A	50.00	51.96	0.740979	0.7700032		3.9	20
Carbon tetrachloride	A	50.00	48.47	0.3202351	0.3104302		-3.1	20
Chlorobenzene	A	50.00	51.95	1.220943	1.26847	0.3	3.9	20
Chloroethane	A	50.00	49.55	0.1624884	0.1610407		-0.9	20
Chloroform	A	50.00	46.61	0.4766249	0.4443466		-6.8	20
Chloromethane	A	50.00	49.31	0.3346068	0.3299584	0.1	-1.4	20
2-Chlorotoluene	A	50.00	51.57	1.714444	1.768292		3.1	20
4-Chlorotoluene	A	50.00	51.44	1.808579	1.860785		2.9	20
Dibromochloromethane	A	50.00	53.57	0.5285393	0.5663252		7.1	20
1,2-Dibromo-3-chloropropane	A	50.00	54.70	0.1257405	0.1375679		9.4	20
1,2-Dibromoethane (EDB)	A	50.00	53.02	0.4888881	0.5184059		6.0	20
Dibromomethane	A	50.00	49.71	0.1899021	0.1888078		-0.6	20
1,2-Dichlorobenzene	A	50.00	51.40	1.057762	1.087484		2.8	20
1,3-Dichlorobenzene	A	50.00	48.94	1.134514	1.110547		-2.1	20
1,4-Dichlorobenzene	A	50.00	51.22	1.202795	1.232139		2.4	20
Dichlorodifluoromethane	A	50.00	51.31	0.3200111	0.3284131		2.6	20
1,1-Dichloroethane	A	50.00	49.05	0.4470751	0.4385539	0.1	-1.9	20
1,2-Dichloroethane	A	50.00	46.34	0.4169138	0.3864328		-7.3	20
1,1-Dichloroethene	A	50.00	55.80	0.1854158	0.2069069		11.6	20
cis-1,2-Dichloroethene	A	50.00	52.42	0.2319594	0.2431796		4.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	52.73	0.2207055	0.2327379		5.5	20
1,2-Dichloropropane	A	50.00	49.79	0.2489638	0.2479107		-0.4	20
1,3-Dichloropropane	A	50.00	49.43	0.8026791	0.7934915		-1.1	20
2,2-Dichloropropane	A	50.00	44.67	0.3707689	0.3312786		-10.7	20
1,1-Dichloropropene	A	50.00	53.03	0.3237741	0.3433633		6.1	20
cis-1,3-Dichloropropene	A	50.00	48.27	0.4124454	0.3981959		-3.5	20
trans-1,3-Dichloropropene	A	50.00	58.67	0.7158689	0.8400282		17.3	20
Ethylbenzene	A	50.00	52.17	2.007809	2.094992		4.3	20
Hexachlorobutadiene	A	50.00	56.12	0.2687676	0.3016678		12.2	20
Isopropylbenzene	A	50.00	56.51	1.566413	1.770488		13.0	20
p-Isopropyltoluene	A	50.00	54.08	1.324729	1.432807		8.2	20
Methylene chloride	A	50.00	49.52	0.2617562	0.2592243		-1.0	20
Naphthalene	A	50.00	55.11	1.415562	1.560129		10.2	20
Methyl t-Butyl Ether	A	50.00	52.54	0.5979716	0.6283221		5.1	20
n-Propylbenzene	A	50.00	53.69	2.594076	2.785659		7.4	20
Styrene	A	50.00	55.50	1.204421	1.337017		11.0	20
1,1,2,2-Tetrachloroethane	A	50.00	51.52	0.7277649	0.749886	0.3	3.0	20
1,1,1,2-Tetrachloroethane	A	50.00	50.87	0.4510822	0.4588884		1.7	20
Tetrachloroethene	A	50.00	53.15	0.471928	0.501621		6.3	20
Toluene	A	50.00	51.58	1.049879	1.083057		3.2	20
1,2,3-Trichlorobenzene	A	50.00	52.33	0.5841777	0.6113597		4.7	20
1,2,4-Trichlorobenzene	A	50.00	51.81	0.6562098	0.6799097		3.6	20
1,1,2-Trichloroethane	A	50.00	51.70	0.3903573	0.4036473		3.4	20
1,1,1-Trichloroethane	A	50.00	47.63	0.3663266	0.348945		-4.7	20
Trichloroethene	A	50.00	50.38	0.246407	0.2482574		0.8	20
Trichlorofluoromethane	A	50.00	47.66	0.4122274	0.3929249		-4.7	20
1,2,3-Trichloropropane	A	50.00	48.32	0.1661066	0.1605261		-3.4	20
1,3,5-Trimethylbenzene	A	50.00	51.30	1.696793	1.740882		2.6	20
1,2,4-Trimethylbenzene	A	50.00	53.64	1.726979	1.852544		7.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	50.00	49.87	0.305846	0.3050633		-0.3	20
m,p-Xylene	A	100.0	103.3	1.54219	1.593317		3.3	20
o-Xylene	A	50.00	51.96	1.656056	1.721054		3.9	20
Bromofluorobenzene	A	30.00	29.29	0.8788963	0.8581073		-2.4	20
Dibromofluoromethane	A	30.00	29.02	0.3260638	0.3154123		-3.3	20
1,2-Dichloroethane-d4	A	30.00	29.96	6.495731E-02	6.486496E-02		-0.1	20
Toluene-d8	A	30.00	32.06	1.870203	1.998743		6.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV3.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/14/10
Lab Sample ID:	0L34902-ICV2	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	L	200.0	206.8	9.490153E-02	9.360305E-02		3.4	20
2-Butanone	L	200.0	209.9	0.1122502	0.1278963		4.9	20
2-Hexanone	L	200.0	210.9	0.36419	0.3970769		5.4	20
4-Methyl-2-pentanone	L	200.0	211.4	0.2489881	0.2775549		5.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	98.61	0.8877526	0.8754519		-1.4	20
Bromobenzene	A	100.0	96.82	0.658417	0.6374675		-3.2	20
Bromochloromethane	A	100.0	104.4	0.1221319	0.127462		4.4	20
Bromodichloromethane	A	100.0	116.9	0.2617577	0.3060053		16.9	20
Bromoform	L	100.0	101.8	0.2222152	0.3310082	0.1	1.8	20
Bromomethane	L	100.0	98.53	0.134767	0.1599718		-1.5	20
n-Butylbenzene	A	100.0	92.95	1.373729	1.276939		-7.0	20
sec-Butylbenzene	A	100.0	95.92	1.78503	1.712249		-4.1	20
tert-Butylbenzene	A	100.0	96.14	1.508831	1.450665		-3.9	20
Carbon disulfide	A	100.0	113.3	0.6389933	0.7241915		13.3	20
Carbon tetrachloride	L	100.0	99.47	0.2178602	0.2669694		-0.5	20
Chlorobenzene	A	100.0	95.93	1.436424	1.377992	0.3	-4.1	20
Chloroethane	A	100.0	106.0	0.1259794	0.133548		6.0	20
Chloroform	A	100.0	98.09	0.4027485	0.3950397		-1.9	20
Chloromethane	A	100.0	112.9	0.2467998	0.2786856	0.1	12.9	20
2-Chlorotoluene	A	100.0	97.46	1.557085	1.517555		-2.5	20
4-Chlorotoluene	A	100.0	95.12	1.615142	1.536353		-4.9	20
Dibromochloromethane	L	100.0	105.6	0.3561249	0.4826405		5.6	20
1,2-Dibromo-3-chloropropane	L	100.0	96.44	0.1049106	0.130851		-3.6	20
1,2-Dibromoethane (EDB)	A	100.0	100.8	0.4787408	0.4825239		0.8	20
Dibromomethane	A	100.0	102.0	0.155373	0.1584544		2.0	20
1,2-Dichlorobenzene	A	100.0	95.69	1.083088	1.03646		-4.3	20
1,3-Dichlorobenzene	A	100.0	93.55	1.123795	1.051362		-6.4	20
1,4-Dichlorobenzene	A	100.0	92.63	1.153886	1.06889		-7.4	20
Dichlorodifluoromethane	A	100.0	143.0	0.1736804	0.2482943		43.0	20 *
1,1-Dichloroethane	A	100.0	101.1	0.4157175	0.4204233	0.1	1.1	20
1,2-Dichloroethane	A	100.0	101.2	0.3303627	0.3342831		1.2	20
1,1-Dichloroethene	A	100.0	109.3	0.1766574	0.1931641		9.3	20
cis-1,2-Dichloroethene	A	100.0	98.74	0.2378304	0.2348456		-1.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	102.4	0.2137549	0.2188265		2.4	20
1,2-Dichloropropane	A	100.0	101.0	0.2562795	0.2588877		1.0	20
1,3-Dichloropropane	A	100.0	97.49	0.7476228	0.7288219		-2.5	20
2,2-Dichloropropane	A	100.0	98.92	0.3047453	0.3014667		-1.1	20
1,1-Dichloropropene	A	100.0	101.9	0.3077578	0.3136846		1.9	20
cis-1,3-Dichloropropene	A	100.0	102.0	0.3687261	0.3759799		2.0	20
trans-1,3-Dichloropropene	A	100.0	117.9	0.6343731	0.7477025		17.9	20
Ethylbenzene	A	100.0	93.26	2.356804	2.197843		-6.7	20
Hexachlorobutadiene	L	100.0	104.9	0.3096349	0.3113485		4.9	20
Isopropylbenzene	A	100.0	97.29	1.931811	1.879531		-2.7	20
p-Isopropyltoluene	A	100.0	97.93	1.341973	1.314139		-2.1	20
Methylene chloride	A	100.0	97.27	0.2430347	0.2363881		-2.7	20
Naphthalene	A	100.0	97.52	1.637823	1.597163		-2.5	20
Methyl t-Butyl Ether	A	200.0	198.3	0.5783993	0.5734028		-0.9	20
n-Propylbenzene	A	100.0	94.99	2.265422	2.152023		-5.0	20
Styrene	A	100.0	101.1	1.55917	1.576227		1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	98.64	0.5234688	0.5163364	0.3	-1.4	20
1,1,1,2-Tetrachloroethane	A	100.0	119.4	0.3922633	0.4685512		19.4	20
Tetrachloroethene	A	100.0	97.25	0.5803178	0.5643474		-2.8	20
Toluene	A	100.0	96.30	1.266817	1.219986		-3.7	20
1,2,3-Trichlorobenzene	A	100.0	94.36	0.6692996	0.6315523		-5.6	20
1,2,4-Trichlorobenzene	A	100.0	92.86	0.7430317	0.6899524		-7.1	20
1,1,2-Trichloroethane	A	100.0	96.87	0.3774056	0.3655906		-3.1	20
1,1,1-Trichloroethane	A	100.0	106.3	0.3181209	0.3380254		6.3	20
Trichloroethene	A	100.0	100.0	0.2462319	0.246225		-0.003	20
Trichlorofluoromethane	A	100.0	103.8	0.3227014	0.3349294		3.8	20
1,2,3-Trichloropropane	A	100.0	98.52	0.1759719	0.173367		-1.5	20
1,3,5-Trimethylbenzene	A	100.0	96.25	1.631362	1.570187		-3.7	20
1,2,4-Trimethylbenzene	A	100.0	97.23	1.6879	1.641188		-2.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	109.1	0.211655	0.2309513		9.1	20
m,p-Xylene	A	200.0	162.6	1.94475	1.580598		-18.7	20
o-Xylene	A	100.0	88.44	2.049863	1.812892		-11.6	20
Bromofluorobenzene	A	30.00	29.31	0.9432064	0.9214516		-2.3	20
Dibromofluoromethane	A	30.00	29.50	0.2525351	0.248311		-1.7	20
1,2-Dichloroethane-d4	A	30.00	31.00	5.392485E-02	5.571539E-02		3.3	20
Toluene-d8	A	30.00	29.76	2.159642	2.142179		-0.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV3.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV3	Injection Time:	18:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	212.6	6.734143E-02	7.158481E-02		6.3	20
2-Butanone	A	200.0	223.5	0.1029735	0.1150657		11.7	20
2-Hexanone	L	200.0	214.8	0.3159287	0.3806354		7.4	20
4-Methyl-2-pentanone	A	200.0	234.7	0.2213585	0.2597223		17.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0217CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05006	Injection Date:	02/17/11
Lab Sample ID:	1B05006-CCV1	Injection Time:	21:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	235.8	6.734143E-02	7.941452E-02		17.9	20
Benzene	A	100.0	100.9	0.8877526	0.8954488		0.9	20
Bromobenzene	A	100.0	102.8	0.658417	0.6769791		2.8	20
Bromochloromethane	A	100.0	113.2	0.1221319	0.138202		13.2	20
Bromodichloromethane	A	100.0	128.8	0.2617577	0.3372017		28.8	20 *
Bromoform	L	100.0	119.4	0.2222152	0.3908758	0.1	19.4	20
Bromomethane	L	100.0	57.04	0.134767	9.120435E-02		-43.0	20 *
n-Butylbenzene	A	100.0	97.43	1.373729	1.338372		-2.6	20
2-Butanone	A	200.0	212.1	0.1029735	0.1091889		6.0	20
sec-Butylbenzene	A	100.0	99.28	1.78503	1.772248		-0.7	20
tert-Butylbenzene	A	100.0	98.79	1.508831	1.49052		-1.2	20
Carbon disulfide	A	100.0	113.8	0.6389933	0.7273937		13.8	20
Carbon tetrachloride	L	100.0	121.1	0.2178602	0.3267997		21.1	20 *
Chlorobenzene	A	100.0	99.13	1.436424	1.423995	0.3	-0.9	20
Chloroethane	A	100.0	112.6	0.1259794	0.1418983		12.6	20
Chloroform	A	100.0	111.9	0.4027485	0.4505798		11.9	20
Chloromethane	A	100.0	96.86	0.2467998	0.2390463	0.1	-3.1	20
2-Chlorotoluene	A	100.0	98.83	1.557085	1.5389		-1.2	20
4-Chlorotoluene	A	100.0	100.2	1.615142	1.618072		0.2	20
Dibromochloromethane	L	100.0	112.7	0.3561249	0.5158962		12.7	20
1,2-Dibromo-3-chloropropane	L	100.0	108.3	0.1049106	0.1474467		8.3	20
1,2-Dibromoethane (EDB)	A	100.0	105.9	0.4787408	0.5068484		5.9	20
Dibromomethane	A	100.0	114.9	0.155373	0.1785304		14.9	20
1,2-Dichlorobenzene	A	100.0	102.4	1.083088	1.109416		2.4	20
1,3-Dichlorobenzene	A	100.0	95.67	1.123795	1.075189		-4.3	20
1,4-Dichlorobenzene	A	100.0	103.9	1.153886	1.199189		3.9	20
Dichlorodifluoromethane	A	100.0	147.5	0.1736804	0.2561883		47.5	20 *
1,1-Dichloroethane	A	100.0	109.8	0.4157175	0.456658	0.1	9.8	20
1,2-Dichloroethane	A	100.0	118.4	0.3303627	0.3910799		18.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0217CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05006	Injection Date:	02/17/11
Lab Sample ID:	1B05006-CCV1	Injection Time:	21:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.8	0.1766574	0.1904153		7.8	20
cis-1,2-Dichloroethene	A	100.0	107.6	0.2378304	0.255876		7.6	20
trans-1,2-Dichloroethene	A	100.0	107.7	0.2137549	0.2302172		7.7	20
1,2-Dichloropropane	A	100.0	104.1	0.2562795	0.2667694		4.1	20
1,3-Dichloropropane	A	100.0	101.1	0.7476228	0.7561546		1.1	20
2,2-Dichloropropane	A	100.0	98.37	0.3047453	0.2997734		-1.6	20
1,1-Dichloropropene	A	100.0	107.0	0.3077578	0.3294284		7.0	20
cis-1,3-Dichloropropene	A	100.0	110.9	0.3687261	0.4089118		10.9	20
trans-1,3-Dichloropropene	A	100.0	106.1	0.6343731	0.6731907		6.1	20
Ethylbenzene	A	100.0	96.62	2.356804	2.277046		-3.4	20
Hexachlorobutadiene	L	100.0	98.66	0.3096349	0.2926775		-1.3	20
2-Hexanone	L	200.0	199.0	0.3159287	0.3528753		-0.5	20
Isopropylbenzene	A	100.0	98.17	1.931811	1.896472		-1.8	20
p-Isopropyltoluene	A	100.0	100.2	1.341973	1.34483		0.2	20
Methylene chloride	A	100.0	104.2	0.2430347	0.2531541		4.2	20
Naphthalene	A	100.0	106.1	1.637823	1.737763		6.1	20
4-Methyl-2-pentanone	A	200.0	237.7	0.2213585	0.2630789		18.8	20
Methyl t-Butyl Ether	A	100.0	112.3	0.5783993	0.6496848		12.3	20
n-Propylbenzene	A	100.0	98.74	2.265422	2.236838		-1.3	20
Styrene	A	100.0	102.6	1.55917	1.599606		2.6	20
1,1,2,2-Tetrachloroethane	A	100.0	96.78	0.5234688	0.5066276	0.3	-3.2	20
1,1,1,2-Tetrachloroethane	A	100.0	130.4	0.3922633	0.511694		30.4	20 *
Tetrachloroethene	A	100.0	100.2	0.5803178	0.5816275		0.2	20
Toluene	A	100.0	95.48	1.266817	1.209574		-4.5	20
1,2,3-Trichlorobenzene	A	100.0	102.7	0.6692996	0.6874905		2.7	20
1,2,4-Trichlorobenzene	A	100.0	101.0	0.7430317	0.7502181		1.0	20
1,1,2-Trichloroethane	A	100.0	99.95	0.3774056	0.3772138		-0.05	20
1,1,1-Trichloroethane	A	100.0	122.6	0.3181209	0.3901613		22.6	20 *
Trichloroethene	A	100.0	109.5	0.2462319	0.269638		9.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0217CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05006	Injection Date:	02/17/11
Lab Sample ID:	1B05006-CCV1	Injection Time:	21:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	124.0	0.3227014	0.4003418		24.1	20 *
1,2,3-Trichloropropane	A	100.0	112.8	0.1759719	0.1985733		12.8	20
1,3,5-Trimethylbenzene	A	100.0	100.5	1.631362	1.638986		0.5	20
1,2,4-Trimethylbenzene	A	100.0	100.1	1.6879	1.690373		0.1	20
Vinyl chloride	A	100.0	108.7	0.211655	0.2301574		8.7	20
m,p-Xylene	A	200.0	173.8	1.94475	1.690531		-13.1	20
o-Xylene	A	100.0	92.18	2.049863	1.88951		-7.8	20
Bromofluorobenzene	A	30.00	29.63	0.9432064	0.9316679		-1.2	20
Dibromofluoromethane	A	30.00	31.40	0.2525351	0.2643502		4.7	20
1,2-Dichloroethane-d4	A	30.00	31.00	5.392485E-02	5.571815E-02		3.3	20
Toluene-d8	A	30.00	28.64	2.159642	2.06182		-4.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0219CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05201	Injection Date:	02/19/11
Lab Sample ID:	1B05201-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	258.8	6.734143E-02	8.714887E-02		29.4	20 *
Benzene	A	100.0	92.77	0.8877526	0.8235393		-7.2	20
Bromobenzene	A	100.0	92.33	0.658417	0.607922		-7.7	20
Bromochloromethane	A	100.0	104.6	0.1221319	0.1277877		4.6	20
Bromodichloromethane	A	100.0	123.5	0.2617577	0.323321		23.5	20 *
Bromoform	L	100.0	113.4	0.2222152	0.3705026	0.1	13.4	20
Bromomethane	L	100.0	60.11	0.134767	9.630532E-02		-39.9	20 *
n-Butylbenzene	A	100.0	90.76	1.373729	1.246867		-9.2	20
2-Butanone	A	200.0	260.8	0.1029735	0.1342528		30.4	20 *
sec-Butylbenzene	A	100.0	90.98	1.78503	1.623994		-9.0	20
tert-Butylbenzene	A	100.0	92.21	1.508831	1.391336		-7.8	20
Carbon disulfide	A	100.0	105.3	0.6389933	0.6726966		5.3	20
Carbon tetrachloride	L	100.0	116.9	0.2178602	0.3152387		16.9	20
Chlorobenzene	A	100.0	92.24	1.436424	1.324995	0.3	-7.8	20
Chloroethane	A	100.0	107.7	0.1259794	0.1356409		7.7	20
Chloroform	A	100.0	104.5	0.4027485	0.4209001		4.5	20
Chloromethane	A	100.0	96.26	0.2467998	0.237574	0.1	-3.7	20
2-Chlorotoluene	A	100.0	91.13	1.557085	1.419028		-8.9	20
4-Chlorotoluene	A	100.0	91.50	1.615142	1.477786		-8.5	20
Dibromochloromethane	L	100.0	106.5	0.3561249	0.4868337		6.5	20
1,2-Dibromo-3-chloropropane	L	100.0	98.89	0.1049106	0.134281		-1.1	20
1,2-Dibromoethane (EDB)	A	100.0	96.88	0.4787408	0.4638033		-3.1	20
Dibromomethane	A	100.0	104.5	0.155373	0.1623103		4.5	20
1,2-Dichlorobenzene	A	100.0	93.11	1.083088	1.008459		-6.9	20
1,3-Dichlorobenzene	A	100.0	92.09	1.123795	1.034892		-7.9	20
1,4-Dichlorobenzene	A	100.0	90.67	1.153886	1.046285		-9.3	20
Dichlorodifluoromethane	A	100.0	159.8	0.1736804	0.2774549		59.8	20 *
1,1-Dichloroethane	A	100.0	100.4	0.4157175	0.4172186	0.1	0.4	20
1,2-Dichloroethane	A	100.0	112.3	0.3303627	0.3710501		12.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0219CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05201	Injection Date:	02/19/11
Lab Sample ID:	1B05201-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	100.1	0.1766574	0.1768882		0.1	20	
cis-1,2-Dichloroethene	A	100.0	98.12	0.2378304	0.2333646		-1.9	20	
trans-1,2-Dichloroethene	A	100.0	97.51	0.2137549	0.208438		-2.5	20	
1,2-Dichloropropane	A	100.0	96.19	0.2562795	0.2465248		-3.8	20	
1,3-Dichloropropane	A	100.0	92.70	0.7476228	0.693035		-7.3	20	
2,2-Dichloropropane	A	100.0	111.5	0.3047453	0.3398981		11.5	20	
1,1-Dichloropropene	A	100.0	101.9	0.3077578	0.3137395		1.9	20	
cis-1,3-Dichloropropene	A	100.0	104.8	0.3687261	0.3866147		4.9	20	
trans-1,3-Dichloropropene	A	100.0	103.2	0.6343731	0.6549459		3.2	20	
Ethylbenzene	A	100.0	91.49	2.356804	2.156349		-8.5	20	
Hexachlorobutadiene	L	100.0	92.55	0.3096349	0.274475		-7.4	20	
2-Hexanone	L	200.0	234.7	0.3159287	0.4156622		17.4	20	
Isopropylbenzene	A	100.0	94.52	1.931811	1.825877		-5.5	20	
p-Isopropyltoluene	A	100.0	92.84	1.341973	1.245857		-7.2	20	
Methylene chloride	A	100.0	95.53	0.2430347	0.2321684		-4.5	20	
Naphthalene	A	100.0	94.96	1.637823	1.555252		-5.0	20	
4-Methyl-2-pentanone	A	200.0	286.8	0.2213585	0.3174396		43.4	20	*
Methyl t-Butyl Ether	A	100.0	103.4	0.5783993	0.5982386		3.4	20	
n-Propylbenzene	A	100.0	92.49	2.265422	2.09527		-7.5	20	
Styrene	A	100.0	93.80	1.55917	1.462494		-6.2	20	
1,1,2,2-Tetrachloroethane	A	100.0	86.75	0.5234688	0.4541245	0.3	-13.2	20	
1,1,1,2-Tetrachloroethane	A	100.0	122.8	0.3922633	0.4816727		22.8	20	*
Tetrachloroethene	A	100.0	92.75	0.5803178	0.5382684		-7.2	20	
Toluene	A	100.0	89.07	1.266817	1.12837		-10.9	20	
1,2,3-Trichlorobenzene	A	100.0	92.28	0.6692996	0.6175991		-7.7	20	
1,2,4-Trichlorobenzene	A	100.0	91.01	0.7430317	0.6762109		-9.0	20	
1,1,2-Trichloroethane	A	100.0	90.59	0.3774056	0.3418966		-9.4	20	
1,1,1-Trichloroethane	A	100.0	118.3	0.3181209	0.3763742		18.3	20	
Trichloroethene	A	100.0	104.6	0.2462319	0.2574648		4.6	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0219CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05201	Injection Date:	02/19/11
Lab Sample ID:	1B05201-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	116.2	0.3227014	0.3751464		16.3	20
1,2,3-Trichloropropane	A	100.0	102.4	0.1759719	0.1802504		2.4	20
1,3,5-Trimethylbenzene	A	100.0	92.65	1.631362	1.511509		-7.3	20
1,2,4-Trimethylbenzene	A	100.0	91.40	1.6879	1.542669		-8.6	20
Vinyl chloride	A	100.0	106.3	0.211655	0.224982		6.3	20
m,p-Xylene	A	200.0	166.5	1.94475	1.61917		-16.7	20
o-Xylene	A	100.0	87.78	2.049863	1.79947		-12.2	20
Bromofluorobenzene	A	30.00	30.50	0.9432064	0.9590918		1.7	20
Dibromofluoromethane	A	30.00	31.86	0.2525351	0.2681778		6.2	20
1,2-Dichloroethane-d4	A	30.00	30.60	5.392485E-02	0.0549994		2.0	20
Toluene-d8	A	30.00	28.88	2.159642	2.078665		-3.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0218CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05303	Injection Date:	02/18/11
Lab Sample ID:	1B05303-CCV1	Injection Time:	08:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	225.2	9.490153E-02	0.101974		12.6	20
Benzene	A	100.0	101.4	0.8446166	0.8565535		1.4	20
Bromobenzene	A	100.0	108.1	0.6204208	0.6708072		8.1	20
Bromochloromethane	A	100.0	111.0	0.1224323	0.1359192		11.0	20
Bromodichloromethane	A	100.0	119.1	0.3700131	0.4408586		19.1	20
Bromoform	A	100.0	125.8	0.3580188	0.4502872	0.1	25.8	20 *
Bromomethane	L	100.0	102.3	0.1720739	0.2240494		2.3	20
n-Butylbenzene	A	100.0	100.9	1.598974	1.612799		0.9	20
2-Butanone	L	200.0	174.6	0.1122502	0.1062093		-12.7	20
sec-Butylbenzene	A	100.0	103.8	2.053309	2.131892		3.8	20
tert-Butylbenzene	A	100.0	103.9	1.63694	1.701162		3.9	20
Carbon disulfide	A	100.0	97.40	0.740979	0.7217148		-2.6	20
Carbon tetrachloride	A	100.0	130.6	0.3202351	0.4183934		30.7	20 *
Chlorobenzene	A	100.0	92.67	1.220943	1.131482	0.3	-7.3	20
Chloroethane	A	100.0	103.5	0.1624884	0.1682139		3.5	20
Chloroform	A	100.0	113.0	0.4766249	0.5383625		13.0	20
Chloromethane	A	100.0	88.77	0.3346068	0.2970347	0.1	-11.2	20
2-Chlorotoluene	A	100.0	98.22	1.714444	1.683944		-1.8	20
4-Chlorotoluene	A	100.0	101.6	1.808579	1.838502		1.7	20
Dibromochloromethane	A	100.0	110.5	0.5285393	0.5840986		10.5	20
1,2-Dibromo-3-chloropropane	A	100.0	115.9	0.1257405	0.1457587		15.9	20
1,2-Dibromoethane (EDB)	A	100.0	101.6	0.4888881	0.4964888		1.6	20
Dibromomethane	A	100.0	114.7	0.1899021	0.2179015		14.7	20
1,2-Dichlorobenzene	A	100.0	104.0	1.057762	1.100623		4.1	20
1,3-Dichlorobenzene	A	100.0	102.8	1.134514	1.165896		2.8	20
1,4-Dichlorobenzene	A	100.0	99.92	1.202795	1.201846		-0.08	20
Dichlorodifluoromethane	A	100.0	115.0	0.3200111	0.3679865		15.0	20
1,1-Dichloroethane	A	100.0	107.1	0.4470751	0.4788631	0.1	7.1	20
1,2-Dichloroethane	A	100.0	127.9	0.4169138	0.533161		27.9	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0218CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05303	Injection Date:	02/18/11
Lab Sample ID:	1B05303-CCV1	Injection Time:	08:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.0	0.1854158	0.1983056		7.0	20
cis-1,2-Dichloroethene	A	100.0	109.2	0.2319594	0.2533065		9.2	20
trans-1,2-Dichloroethene	A	100.0	106.7	0.2207055	0.2354214		6.7	20
1,2-Dichloropropane	A	100.0	100.0	0.2489638	0.2490354		0.03	20
1,3-Dichloropropane	A	100.0	94.62	0.8026791	0.7595119		-5.4	20
2,2-Dichloropropane	A	100.0	121.6	0.3707689	0.4508812		21.6	20 *
1,1-Dichloropropene	A	100.0	114.6	0.3237741	0.3711703		14.6	20
cis-1,3-Dichloropropene	A	100.0	117.0	0.4124454	0.4827691		17.1	20
trans-1,3-Dichloropropene	A	100.0	108.1	0.7158689	0.7740351		8.1	20
Ethylbenzene	A	100.0	94.93	2.007809	1.906019		-5.1	20
Hexachlorobutadiene	A	100.0	124.2	0.2687676	0.333852		24.2	20 *
2-Hexanone	L	200.0	184.0	0.36419	0.3466192		-8.0	20
Isopropylbenzene	A	100.0	104.1	1.566413	1.631191		4.1	20
p-Isopropyltoluene	A	100.0	108.8	1.324729	1.441641		8.8	20
Methylene chloride	A	100.0	103.8	0.2617562	0.2716974		3.8	20
Naphthalene	A	100.0	106.5	1.415562	1.507573		6.5	20
4-Methyl-2-pentanone	L	200.0	209.6	0.2489881	0.2752247		4.8	20
Methyl t-Butyl Ether	A	100.0	116.3	0.5979716	0.6955522		16.3	20
n-Propylbenzene	A	100.0	101.3	2.594076	2.62834		1.3	20
Styrene	A	100.0	100.2	1.204421	1.206793		0.2	20
1,1,2,2-Tetrachloroethane	A	100.0	93.86	0.7277649	0.6830894	0.3	-6.1	20
1,1,1,2-Tetrachloroethane	A	100.0	106.2	0.4510822	0.4788447		6.2	20
Tetrachloroethene	A	100.0	103.0	0.471928	0.4860038		3.0	20
Toluene	A	100.0	91.75	1.049879	0.9632838		-8.2	20
1,2,3-Trichlorobenzene	A	100.0	110.2	0.5841777	0.6436437		10.2	20
1,2,4-Trichlorobenzene	A	100.0	111.8	0.6562098	0.7339838		11.9	20
1,1,2-Trichloroethane	A	100.0	91.12	0.3903573	0.3556876		-8.9	20
1,1,1-Trichloroethane	A	100.0	126.8	0.3663266	0.4646371		26.8	20 *
Trichloroethene	A	100.0	111.1	0.246407	0.2736661		11.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0218CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05303	Injection Date:	02/18/11
Lab Sample ID:	1B05303-CCV1	Injection Time:	08:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	124.8	0.4122274	0.5144992		24.8	20 *
1,2,3-Trichloropropane	A	100.0	106.0	0.1661066	0.1760576		6.0	20
1,3,5-Trimethylbenzene	A	100.0	106.0	1.696793	1.797822		6.0	20
1,2,4-Trimethylbenzene	A	100.0	107.8	1.726979	1.861939		7.8	20
Vinyl chloride	A	100.0	106.6	0.305846	0.3259876		6.6	20
m,p-Xylene	A	200.0	193.8	1.54219	1.494797		-3.1	20
o-Xylene	A	100.0	97.42	1.656056	1.613382		-2.6	20
Bromofluorobenzene	A	30.00	28.49	0.8788963	0.8345831		-5.0	20
Dibromofluoromethane	A	30.00	30.93	0.3260638	0.3361878		3.1	20
1,2-Dichloroethane-d4	A	30.00	27.13	6.495731E-02	5.875186E-02		-9.6	20
Toluene-d8	A	30.00	25.89	1.870203	1.614228		-13.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0221CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05312	Injection Date:	02/21/11
Lab Sample ID:	1B05312-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	295.8	9.490153E-02	0.1340603		47.9	20 *
Benzene	A	100.0	95.20	0.8446166	0.8040564		-4.8	20
Bromobenzene	A	100.0	102.7	0.6204208	0.6374803		2.7	20
Bromochloromethane	A	100.0	107.8	0.1224323	0.1320493		7.9	20
Bromodichloromethane	A	100.0	111.4	0.3700131	0.4123609		11.4	20
Bromoform	A	100.0	118.1	0.3580188	0.4227115	0.1	18.1	20
Bromomethane	L	100.0	95.48	0.1720739	0.2088706		-4.5	20
n-Butylbenzene	A	100.0	97.02	1.598974	1.55142		-3.0	20
2-Butanone	L	200.0	235.6	0.1122502	0.1437401		17.8	20
sec-Butylbenzene	A	100.0	99.03	2.053309	2.033422		-1.0	20
tert-Butylbenzene	A	100.0	98.21	1.63694	1.607622		-1.8	20
Carbon disulfide	A	100.0	91.13	0.740979	0.6752551		-8.9	20
Carbon tetrachloride	A	100.0	118.5	0.3202351	0.3794937		18.5	20
Chlorobenzene	A	100.0	85.88	1.220943	1.048551	0.3	-14.1	20
Chloroethane	A	100.0	100.2	0.1624884	0.1627745		0.2	20
Chloroform	A	100.0	104.4	0.4766249	0.4976047		4.4	20
Chloromethane	A	100.0	86.94	0.3346068	0.2909137	0.1	-13.1	20
2-Chlorotoluene	A	100.0	95.82	1.714444	1.642773		-4.2	20
4-Chlorotoluene	A	100.0	93.28	1.808579	1.686955		-6.7	20
Dibromochloromethane	A	100.0	102.7	0.5285393	0.5426523		2.7	20
1,2-Dibromo-3-chloropropane	A	100.0	110.2	0.1257405	0.1385852		10.2	20
1,2-Dibromoethane (EDB)	A	100.0	93.19	0.4888881	0.4555766		-6.8	20
Dibromomethane	A	100.0	103.6	0.1899021	0.1967128		3.6	20
1,2-Dichlorobenzene	A	100.0	97.34	1.057762	1.029688		-2.7	20
1,3-Dichlorobenzene	A	100.0	95.79	1.134514	1.086726		-4.2	20
1,4-Dichlorobenzene	A	100.0	96.20	1.202795	1.157078		-3.8	20
Dichlorodifluoromethane	A	100.0	110.0	0.3200111	0.3519459		10.0	20
1,1-Dichloroethane	A	100.0	100.4	0.4470751	0.4490301	0.1	0.4	20
1,2-Dichloroethane	A	100.0	115.8	0.4169138	0.4828448		15.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0221CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05312	Injection Date:	02/21/11
Lab Sample ID:	1B05312-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	104.6	0.1854158	0.1939818		4.6	20	
cis-1,2-Dichloroethene	A	100.0	103.6	0.2319594	0.2403412		3.6	20	
trans-1,2-Dichloroethene	A	100.0	99.49	0.2207055	0.2195795		-0.5	20	
1,2-Dichloropropane	A	100.0	93.20	0.2489638	0.2320426		-6.8	20	
1,3-Dichloropropane	A	100.0	85.30	0.8026791	0.6846774		-14.7	20	
2,2-Dichloropropane	A	100.0	112.4	0.3707689	0.4166938		12.4	20	
1,1-Dichloropropene	A	100.0	110.1	0.3237741	0.3565449		10.1	20	
cis-1,3-Dichloropropene	A	100.0	110.1	0.4124454	0.4539878		10.1	20	
trans-1,3-Dichloropropene	A	100.0	100.2	0.7158689	0.7172929		0.2	20	
Ethylbenzene	A	100.0	89.93	2.007809	1.805644		-10.1	20	
Hexachlorobutadiene	A	100.0	118.6	0.2687676	0.3187384		18.6	20	
2-Hexanone	L	200.0	224.3	0.36419	0.4223016		12.2	20	
Isopropylbenzene	A	100.0	96.88	1.566413	1.517542		-3.1	20	
p-Isopropyltoluene	A	100.0	105.4	1.324729	1.396956		5.5	20	
Methylene chloride	A	100.0	97.86	0.2617562	0.2561581		-2.1	20	
Naphthalene	A	100.0	97.20	1.415562	1.37591		-2.8	20	
4-Methyl-2-pentanone	L	200.0	261.4	0.2489881	0.3431904		30.7	20	*
Methyl t-Butyl Ether	A	100.0	111.2	0.5979716	0.6652058		11.2	20	
n-Propylbenzene	A	100.0	96.40	2.594076	2.500695		-3.6	20	
Styrene	A	100.0	96.91	1.204421	1.167191		-3.1	20	
1,1,2,2-Tetrachloroethane	A	100.0	88.58	0.7277649	0.6446809	0.3	-11.4	20	
1,1,1,2-Tetrachloroethane	A	100.0	99.14	0.4510822	0.4472167		-0.9	20	
Tetrachloroethene	A	100.0	95.80	0.471928	0.4520952		-4.2	20	
Toluene	A	100.0	88.17	1.049879	0.9256429		-11.8	20	
1,2,3-Trichlorobenzene	A	100.0	102.1	0.5841777	0.5965241		2.1	20	
1,2,4-Trichlorobenzene	A	100.0	104.3	0.6562098	0.6841938		4.3	20	
1,1,2-Trichloroethane	A	100.0	85.63	0.3903573	0.3342699		-14.4	20	
1,1,1-Trichloroethane	A	100.0	118.1	0.3663266	0.4327068		18.1	20	
Trichloroethene	A	100.0	103.8	0.246407	0.2557131		3.8	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0221CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05312	Injection Date:	02/21/11
Lab Sample ID:	1B05312-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	115.6	0.4122274	0.4767259		15.6	20
1,2,3-Trichloropropane	A	100.0	95.08	0.1661066	0.1579267		-4.9	20
1,3,5-Trimethylbenzene	A	100.0	102.3	1.696793	1.735174		2.3	20
1,2,4-Trimethylbenzene	A	100.0	103.7	1.726979	1.791432		3.7	20
Vinyl chloride	A	100.0	101.2	0.305846	0.3095288		1.2	20
m,p-Xylene	A	200.0	177.4	1.54219	1.368204		-11.3	20
o-Xylene	A	100.0	89.58	1.656056	1.483492		-10.4	20
Bromofluorobenzene	A	30.00	29.13	0.8788963	0.8533716		-2.9	20
Dibromofluoromethane	A	30.00	31.04	0.3260638	0.337369		3.5	20
1,2-Dichloroethane-d4	A	30.00	28.56	6.495731E-02	6.184877E-02		-4.8	20
Toluene-d8	A	30.00	27.14	1.870203	1.691807		-9.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0222CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05401	Injection Date:	02/22/11
Lab Sample ID:	1B05401-CCV1	Injection Time:	07:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	278.1	6.734143E-02	9.362578E-02		39.0	20 *
Benzene	A	100.0	94.62	0.8877526	0.8400389		-5.4	20
Bromobenzene	A	100.0	94.14	0.658417	0.6198059		-5.9	20
Bromochloromethane	A	100.0	109.2	0.1221319	0.1333285		9.2	20
Bromodichloromethane	A	100.0	129.4	0.2617577	0.3387978		29.4	20 *
Bromoform	L	100.0	117.7	0.2222152	0.384833	0.1	17.7	20
Bromomethane	L	100.0	71.24	0.134767	0.1147507		-28.8	20 *
n-Butylbenzene	A	100.0	93.76	1.373729	1.288091		-6.2	20
2-Butanone	A	200.0	271.2	0.1029735	0.13966		35.6	20 *
sec-Butylbenzene	A	100.0	95.37	1.78503	1.702323		-4.6	20
tert-Butylbenzene	A	100.0	95.77	1.508831	1.444999		-4.2	20
Carbon disulfide	A	100.0	109.2	0.6389933	0.6977578		9.2	20
Carbon tetrachloride	L	100.0	124.8	0.2178602	0.3371886		24.8	20 *
Chlorobenzene	A	100.0	93.53	1.436424	1.34353	0.3	-6.5	20
Chloroethane	A	100.0	115.8	0.1259794	0.1458214		15.8	20
Chloroform	A	100.0	109.8	0.4027485	0.442416		9.8	20
Chloromethane	A	100.0	106.6	0.2467998	0.2631559	0.1	6.6	20
2-Chlorotoluene	A	100.0	95.67	1.557085	1.489628		-4.3	20
4-Chlorotoluene	A	100.0	93.94	1.615142	1.517287		-6.1	20
Dibromochloromethane	L	100.0	111.6	0.3561249	0.5108395		11.6	20
1,2-Dibromo-3-chloropropane	L	100.0	103.1	0.1049106	0.1401517		3.1	20
1,2-Dibromoethane (EDB)	A	100.0	100.2	0.4787408	0.4799108		0.2	20
Dibromomethane	A	100.0	110.5	0.155373	0.1717158		10.5	20
1,2-Dichlorobenzene	A	100.0	96.86	1.083088	1.049142		-3.1	20
1,3-Dichlorobenzene	A	100.0	96.68	1.123795	1.086438		-3.3	20
1,4-Dichlorobenzene	A	100.0	92.74	1.153886	1.070134		-7.3	20
Dichlorodifluoromethane	A	100.0	155.5	0.1736804	0.2701436		55.5	20 *
1,1-Dichloroethane	A	100.0	104.8	0.4157175	0.435485	0.1	4.8	20
1,2-Dichloroethane	A	100.0	117.9	0.3303627	0.3895169		17.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0222CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05401	Injection Date:	02/22/11
Lab Sample ID:	1B05401-CCV1	Injection Time:	07:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	105.9	0.1766574	0.1870188		5.9	20
cis-1,2-Dichloroethene	A	100.0	102.7	0.2378304	0.2443696		2.7	20
trans-1,2-Dichloroethene	A	100.0	103.1	0.2137549	0.2203234		3.1	20
1,2-Dichloropropane	A	100.0	98.86	0.2562795	0.2533655		-1.1	20
1,3-Dichloropropane	A	100.0	95.81	0.7476228	0.7162712		-4.2	20
2,2-Dichloropropane	A	100.0	115.5	0.3047453	0.3520271		15.5	20
1,1-Dichloropropene	A	100.0	107.1	0.3077578	0.329501		7.1	20
cis-1,3-Dichloropropene	A	100.0	110.9	0.3687261	0.4089716		10.9	20
trans-1,3-Dichloropropene	A	100.0	105.4	0.6343731	0.6685036		5.4	20
Ethylbenzene	A	100.0	92.63	2.356804	2.183194		-7.4	20
Hexachlorobutadiene	L	100.0	97.17	0.3096349	0.2882513		-2.8	20
2-Hexanone	L	200.0	245.5	0.3159287	0.4346281		22.8	20 *
Isopropylbenzene	A	100.0	94.75	1.931811	1.830356		-5.3	20
p-Isopropyltoluene	A	100.0	96.59	1.341973	1.296232		-3.4	20
Methylene chloride	A	100.0	99.04	0.2430347	0.2406925		-1.0	20
Naphthalene	A	100.0	100.0	1.637823	1.638108		0.02	20
4-Methyl-2-pentanone	A	200.0	294.3	0.2213585	0.3257792		47.2	20 *
Methyl t-Butyl Ether	A	100.0	108.0	0.5783993	0.6247314		8.0	20
n-Propylbenzene	A	100.0	92.94	2.265422	2.105478		-7.1	20
Styrene	A	100.0	96.64	1.55917	1.506735		-3.4	20
1,1,2,2-Tetrachloroethane	A	100.0	89.73	0.5234688	0.4697158	0.3	-10.3	20
1,1,1,2-Tetrachloroethane	A	100.0	125.6	0.3922633	0.4925561		25.6	20 *
Tetrachloroethene	A	100.0	97.08	0.5803178	0.5633987		-2.9	20
Toluene	A	100.0	90.44	1.266817	1.145705		-9.6	20
1,2,3-Trichlorobenzene	A	100.0	97.10	0.6692996	0.6498659		-2.9	20
1,2,4-Trichlorobenzene	A	100.0	94.76	0.7430317	0.704115		-5.2	20
1,1,2-Trichloroethane	A	100.0	91.98	0.3774056	0.3471509		-8.0	20
1,1,1-Trichloroethane	A	100.0	126.2	0.3181209	0.4015783		26.2	20 *
Trichloroethene	A	100.0	108.3	0.2462319	0.2666777		8.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0222CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05401	Injection Date:	02/22/11
Lab Sample ID:	1B05401-CCV1	Injection Time:	07:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	120.4	0.3227014	0.3885837		20.4	20 *
1,2,3-Trichloropropane	A	100.0	104.2	0.1759719	0.1834666		4.3	20
1,3,5-Trimethylbenzene	A	100.0	96.58	1.631362	1.575541		-3.4	20
1,2,4-Trimethylbenzene	A	100.0	95.94	1.6879	1.619352		-4.1	20
Vinyl chloride	A	100.0	111.0	0.211655	0.2348667		11.0	20
m,p-Xylene	A	200.0	166.5	1.94475	1.619277		-16.7	20
o-Xylene	A	100.0	89.94	2.049863	1.843699		-10.1	20
Bromofluorobenzene	A	30.00	29.50	0.9432064	0.9274274		-1.7	20
Dibromofluoromethane	A	30.00	32.72	0.2525351	0.2754527		9.1	20
1,2-Dichloroethane-d4	A	30.00	31.34	5.392485E-02	5.634397E-02		4.5	20
Toluene-d8	A	30.00	28.68	2.159642	2.064816		-4.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0223CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05514	Injection Date:	02/23/11
Lab Sample ID:	1B05514-CCV1	Injection Time:	10:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	315.2	9.490153E-02	0.1428507		57.6	20 *
Benzene	A	100.0	103.1	0.8446166	0.8708361		3.1	20
Bromobenzene	A	100.0	110.6	0.6204208	0.6862117		10.6	20
Bromochloromethane	A	100.0	114.4	0.1224323	0.1401233		14.4	20
Bromodichloromethane	A	100.0	125.0	0.3700131	0.4625762		25.0	20 *
Bromoform	A	100.0	127.4	0.3580188	0.4562788	0.1	27.4	20 *
Bromomethane	L	100.0	105.4	0.1720739	0.2309509		5.4	20
n-Butylbenzene	A	100.0	103.6	1.598974	1.656165		3.6	20
2-Butanone	L	200.0	249.0	0.1122502	0.1519307		24.5	20 *
sec-Butylbenzene	A	100.0	104.3	2.053309	2.141362		4.3	20
tert-Butylbenzene	A	100.0	101.6	1.63694	1.663863		1.6	20
Carbon disulfide	A	100.0	99.75	0.740979	0.7391229		-0.3	20
Carbon tetrachloride	A	100.0	137.2	0.3202351	0.4394784		37.2	20 *
Chlorobenzene	A	100.0	91.80	1.220943	1.120838	0.3	-8.2	20
Chloroethane	A	100.0	110.4	0.1624884	0.1793478		10.4	20
Chloroform	A	100.0	117.1	0.4766249	0.5581259		17.1	20
Chloromethane	A	100.0	96.39	0.3346068	0.3225333	0.1	-3.6	20
2-Chlorotoluene	A	100.0	100.1	1.714444	1.716466		0.1	20
4-Chlorotoluene	A	100.0	104.0	1.808579	1.880041		4.0	20
Dibromochloromethane	A	100.0	111.0	0.5285393	0.5865654		11.0	20
1,2-Dibromo-3-chloropropane	A	100.0	120.9	0.1257405	0.152078		20.9	20 *
1,2-Dibromoethane (EDB)	A	100.0	100.8	0.4888881	0.492802		0.8	20
Dibromomethane	A	100.0	120.0	0.1899021	0.227867		20.0	20
1,2-Dichlorobenzene	A	100.0	107.7	1.057762	1.139432		7.7	20
1,3-Dichlorobenzene	A	100.0	102.4	1.134514	1.162152		2.4	20
1,4-Dichlorobenzene	A	100.0	101.3	1.202795	1.218077		1.3	20
Dichlorodifluoromethane	A	100.0	120.7	0.3200111	0.3862186		20.7	20 *
1,1-Dichloroethane	A	100.0	111.0	0.4470751	0.4961746	0.1	11.0	20
1,2-Dichloroethane	A	100.0	131.5	0.4169138	0.5483371		31.5	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0223CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05514	Injection Date:	02/23/11
Lab Sample ID:	1B05514-CCV1	Injection Time:	10:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	112.6	0.1854158	0.2088248		12.6	20
cis-1,2-Dichloroethene	A	100.0	114.3	0.2319594	0.2650707		14.3	20
trans-1,2-Dichloroethene	A	100.0	105.7	0.2207055	0.2333589		5.7	20
1,2-Dichloropropane	A	100.0	104.3	0.2489638	0.2597421		4.3	20
1,3-Dichloropropane	A	100.0	95.71	0.8026791	0.7682221		-4.3	20
2,2-Dichloropropane	A	100.0	126.4	0.3707689	0.468589		26.4	20 *
1,1-Dichloropropene	A	100.0	120.6	0.3237741	0.3905036		20.6	20 *
cis-1,3-Dichloropropene	A	100.0	120.4	0.4124454	0.496513		20.4	20 *
trans-1,3-Dichloropropene	A	100.0	106.4	0.7158689	0.7614718		6.4	20
Ethylbenzene	A	100.0	94.53	2.007809	1.89801		-5.5	20
Hexachlorobutadiene	A	100.0	126.3	0.2687676	0.3394563		26.3	20 *
2-Hexanone	L	200.0	238.2	0.36419	0.448425		19.1	20
Isopropylbenzene	A	100.0	101.1	1.566413	1.583225		1.1	20
p-Isopropyltoluene	A	100.0	108.1	1.324729	1.432369		8.1	20
Methylene chloride	A	100.0	109.7	0.2617562	0.2872089		9.7	20
Naphthalene	A	100.0	109.4	1.415562	1.547934		9.4	20
4-Methyl-2-pentanone	L	200.0	283.7	0.2489881	0.3725197		41.8	20 *
Methyl t-Butyl Ether	A	100.0	117.7	0.5979716	0.7036504		17.7	20
n-Propylbenzene	A	100.0	100.8	2.594076	2.613627		0.8	20
Styrene	A	100.0	100.9	1.204421	1.21496		0.9	20
1,1,2,2-Tetrachloroethane	A	100.0	99.02	0.7277649	0.7206363	0.3	-1.0	20
1,1,1,2-Tetrachloroethane	A	100.0	106.9	0.4510822	0.4821809		6.9	20
Tetrachloroethene	A	100.0	101.2	0.471928	0.4776282		1.2	20
Toluene	A	100.0	91.90	1.049879	0.9648584		-8.1	20
1,2,3-Trichlorobenzene	A	100.0	112.6	0.5841777	0.6579152		12.6	20
1,2,4-Trichlorobenzene	A	100.0	112.5	0.6562098	0.7385483		12.5	20
1,1,2-Trichloroethane	A	100.0	89.32	0.3903573	0.3486739		-10.7	20
1,1,1-Trichloroethane	A	100.0	132.3	0.3663266	0.4847122		32.3	20 *
Trichloroethene	A	100.0	113.6	0.246407	0.2798966		13.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0223CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05514	Injection Date:	02/23/11
Lab Sample ID:	1B05514-CCV1	Injection Time:	10:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	132.8	0.4122274	0.5473539		32.8	20 *
1,2,3-Trichloropropane	A	100.0	103.7	0.1661066	0.1722198		3.7	20
1,3,5-Trimethylbenzene	A	100.0	106.7	1.696793	1.810059		6.7	20
1,2,4-Trimethylbenzene	A	100.0	110.3	1.726979	1.904694		10.3	20
Vinyl chloride	A	100.0	116.6	0.305846	0.3566406		16.6	20
m,p-Xylene	A	200.0	188.5	1.54219	1.453269		-5.8	20
o-Xylene	A	100.0	96.65	1.656056	1.600656		-3.3	20
Bromofluorobenzene	A	30.00	28.36	0.8788963	0.8310194		-5.4	20
Dibromofluoromethane	A	30.00	32.78	0.3260638	0.3562893		9.3	20
1,2-Dichloroethane-d4	A	30.00	30.31	6.495731E-02	6.562113E-02		1.0	20
Toluene-d8	A	30.00	25.75	1.870203	1.605043		-14.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05611	Injection Date:	02/24/11
Lab Sample ID:	1B05611-CCV1	Injection Time:	06:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	305.2	9.490153E-02	0.1382986		52.6	20 *
Benzene	A	100.0	96.68	0.8446166	0.8165657		-3.3	20
Bromobenzene	A	100.0	101.8	0.6204208	0.6316337		1.8	20
Bromochloromethane	A	100.0	106.5	0.1224323	0.1303548		6.5	20
Bromodichloromethane	A	100.0	113.5	0.3700131	0.4200714		13.5	20
Bromoform	A	100.0	120.6	0.3580188	0.4317291	0.1	20.6	20 *
Bromomethane	L	100.0	99.16	0.1720739	0.2170569		-0.8	20
n-Butylbenzene	A	100.0	98.90	1.598974	1.581407		-1.1	20
2-Butanone	L	200.0	246.4	0.1122502	0.1503625		23.2	20 *
sec-Butylbenzene	A	100.0	101.7	2.053309	2.08812		1.7	20
tert-Butylbenzene	A	100.0	101.4	1.63694	1.660764		1.5	20
Carbon disulfide	A	100.0	92.37	0.740979	0.6844418		-7.6	20
Carbon tetrachloride	A	100.0	126.4	0.3202351	0.404893		26.4	20 *
Chlorobenzene	A	100.0	89.62	1.220943	1.094207	0.3	-10.4	20
Chloroethane	A	100.0	101.1	0.1624884	0.1642885		1.1	20
Chloroform	A	100.0	105.9	0.4766249	0.5046801		5.9	20
Chloromethane	A	100.0	88.39	0.3346068	0.2957754	0.1	-11.6	20
2-Chlorotoluene	A	100.0	95.42	1.714444	1.635917		-4.6	20
4-Chlorotoluene	A	100.0	95.92	1.808579	1.73479		-4.1	20
Dibromochloromethane	A	100.0	106.8	0.5285393	0.5647309		6.8	20
1,2-Dibromo-3-chloropropane	A	100.0	112.2	0.1257405	0.1411		12.2	20
1,2-Dibromoethane (EDB)	A	100.0	98.30	0.4888881	0.4805904		-1.7	20
Dibromomethane	A	100.0	107.9	0.1899021	0.2049193		7.9	20
1,2-Dichlorobenzene	A	100.0	98.90	1.057762	1.04614		-1.1	20
1,3-Dichlorobenzene	A	100.0	96.36	1.134514	1.093278		-3.6	20
1,4-Dichlorobenzene	A	100.0	98.60	1.202795	1.185943		-1.4	20
Dichlorodifluoromethane	A	100.0	116.0	0.3200111	0.3711708		16.0	20
1,1-Dichloroethane	A	100.0	97.63	0.4470751	0.4364857	0.1	-2.4	20
1,2-Dichloroethane	A	100.0	122.7	0.4169138	0.5115831		22.7	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05611	Injection Date:	02/24/11
Lab Sample ID:	1B05611-CCV1	Injection Time:	06:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.6	0.1854158	0.1995326		7.6	20
cis-1,2-Dichloroethene	A	100.0	108.3	0.2319594	0.2512238		8.3	20
trans-1,2-Dichloroethene	A	100.0	101.8	0.2207055	0.2247775		1.8	20
1,2-Dichloropropane	A	100.0	97.58	0.2489638	0.242949		-2.4	20
1,3-Dichloropropane	A	100.0	89.01	0.8026791	0.7144528		-11.0	20
2,2-Dichloropropane	A	100.0	119.6	0.3707689	0.443284		19.6	20
1,1-Dichloropropene	A	100.0	113.4	0.3237741	0.3672735		13.4	20
cis-1,3-Dichloropropene	A	100.0	110.3	0.4124454	0.4548248		10.3	20
trans-1,3-Dichloropropene	A	100.0	101.6	0.7158689	0.7277325		1.7	20
Ethylbenzene	A	100.0	93.66	2.007809	1.880559		-6.3	20
Hexachlorobutadiene	A	100.0	122.2	0.2687676	0.3284207		22.2	20 *
2-Hexanone	L	200.0	246.4	0.36419	0.4639489		23.2	20 *
Isopropylbenzene	A	100.0	100.3	1.566413	1.571159		0.3	20
p-Isopropyltoluene	A	100.0	104.8	1.324729	1.388537		4.8	20
Methylene chloride	A	100.0	102.1	0.2617562	0.2671951		2.1	20
Naphthalene	A	100.0	102.2	1.415562	1.446599		2.2	20
4-Methyl-2-pentanone	L	200.0	271.0	0.2489881	0.3558818		35.5	20 *
Methyl t-Butyl Ether	A	100.0	110.1	0.5979716	0.6583859		10.1	20
n-Propylbenzene	A	100.0	96.06	2.594076	2.49179		-3.9	20
Styrene	A	100.0	96.43	1.204421	1.161393		-3.6	20
1,1,2,2-Tetrachloroethane	A	100.0	90.56	0.7277649	0.6590882	0.3	-9.4	20
1,1,1,2-Tetrachloroethane	A	100.0	103.7	0.4510822	0.4679955		3.7	20
Tetrachloroethene	A	100.0	100.3	0.471928	0.4735292		0.3	20
Toluene	A	100.0	90.76	1.049879	0.9529136		-9.2	20
1,2,3-Trichlorobenzene	A	100.0	104.2	0.5841777	0.6090461		4.3	20
1,2,4-Trichlorobenzene	A	100.0	103.9	0.6562098	0.6816909		3.9	20
1,1,2-Trichloroethane	A	100.0	89.67	0.3903573	0.350026		-10.3	20
1,1,1-Trichloroethane	A	100.0	121.3	0.3663266	0.4445053		21.3	20 *
Trichloroethene	A	100.0	105.9	0.246407	0.2610543		5.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05611	Injection Date:	02/24/11
Lab Sample ID:	1B05611-CCV1	Injection Time:	06:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	127.8	0.4122274	0.5268646		27.8	20 *
1,2,3-Trichloropropane	A	100.0	100.7	0.1661066	0.1672838		0.7	20
1,3,5-Trimethylbenzene	A	100.0	101.7	1.696793	1.726318		1.7	20
1,2,4-Trimethylbenzene	A	100.0	102.6	1.726979	1.77281		2.7	20
Vinyl chloride	A	100.0	108.2	0.305846	0.331025		8.2	20
m,p-Xylene	A	200.0	187.2	1.54219	1.443798		-6.4	20
o-Xylene	A	100.0	95.16	1.656056	1.575943		-4.8	20
Bromofluorobenzene	A	30.00	28.65	0.8788963	0.8393015		-4.5	20
Dibromofluoromethane	A	30.00	31.77	0.3260638	0.3452746		5.9	20
1,2-Dichloroethane-d4	A	30.00	29.80	6.495731E-02	6.453668E-02		-0.6	20
Toluene-d8	A	30.00	27.04	1.870203	1.685496		-9.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	309.9	9.490153E-02	0.1404714		55.0	20 *
Benzene	A	100.0	103.2	0.8446166	0.8721		3.3	20
Bromobenzene	A	100.0	102.4	0.6204208	0.6351282		2.4	20
Bromochloromethane	A	100.0	109.2	0.1224323	0.133738		9.2	20
Bromodichloromethane	A	100.0	114.0	0.3700131	0.4216329		14.0	20
Bromoform	A	100.0	119.0	0.3580188	0.4262222	0.1	19.1	20
Bromomethane	L	100.0	103.3	0.1720739	0.2263494		3.3	20
n-Butylbenzene	A	100.0	96.48	1.598974	1.542675		-3.5	20
2-Butanone	L	200.0	260.9	0.1122502	0.1592514		30.4	20 *
sec-Butylbenzene	A	100.0	99.71	2.053309	2.047288		-0.3	20
tert-Butylbenzene	A	100.0	98.63	1.63694	1.614573		-1.4	20
Carbon disulfide	A	100.0	96.67	0.740979	0.7162831		-3.3	20
Carbon tetrachloride	A	100.0	126.9	0.3202351	0.4063089		26.9	20 *
Chlorobenzene	A	100.0	90.36	1.220943	1.103267	0.3	-9.6	20
Chloroethane	A	100.0	108.2	0.1624884	0.1757403		8.2	20
Chloroform	A	100.0	110.0	0.4766249	0.5244819		10.0	20
Chloromethane	A	100.0	95.61	0.3346068	0.319914	0.1	-4.4	20
2-Chlorotoluene	A	100.0	94.07	1.714444	1.612717		-5.9	20
4-Chlorotoluene	A	100.0	95.46	1.808579	1.726543		-4.5	20
Dibromochloromethane	A	100.0	106.6	0.5285393	0.5634277		6.6	20
1,2-Dibromo-3-chloropropane	A	100.0	109.5	0.1257405	0.1376379		9.5	20
1,2-Dibromoethane (EDB)	A	100.0	98.35	0.4888881	0.4808034		-1.7	20
Dibromomethane	A	100.0	110.8	0.1899021	0.2104343		10.8	20
1,2-Dichlorobenzene	A	100.0	99.37	1.057762	1.051071		-0.6	20
1,3-Dichlorobenzene	A	100.0	98.92	1.134514	1.122289		-1.1	20
1,4-Dichlorobenzene	A	100.0	93.94	1.202795	1.129889		-6.1	20
Dichlorodifluoromethane	A	100.0	105.6	0.3200111	0.3379094		5.6	20
1,1-Dichloroethane	A	100.0	107.6	0.4470751	0.4810771	0.1	7.6	20
1,2-Dichloroethane	A	100.0	118.3	0.4169138	0.49322		18.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	110.8	0.1854158	0.2054863		10.8	20
cis-1,2-Dichloroethene	A	100.0	111.9	0.2319594	0.2595942		11.9	20
trans-1,2-Dichloroethene	A	100.0	105.9	0.2207055	0.2338036		5.9	20
1,2-Dichloropropane	A	100.0	101.9	0.2489638	0.2536873		1.9	20
1,3-Dichloropropane	A	100.0	91.21	0.8026791	0.7321617		-8.8	20
2,2-Dichloropropane	A	100.0	115.3	0.3707689	0.4274119		15.3	20
1,1-Dichloropropene	A	100.0	115.3	0.3237741	0.373359		15.3	20
cis-1,3-Dichloropropene	A	100.0	114.8	0.4124454	0.4737151		14.9	20
trans-1,3-Dichloropropene	A	100.0	101.4	0.7158689	0.7257802		1.4	20
Ethylbenzene	A	100.0	93.51	2.007809	1.877464		-6.5	20
Hexachlorobutadiene	A	100.0	121.9	0.2687676	0.3277617		21.9	20 *
2-Hexanone	L	200.0	241.4	0.36419	0.4544813		20.7	20 *
Isopropylbenzene	A	100.0	95.89	1.566413	1.502028		-4.1	20
p-Isopropyltoluene	A	100.0	104.3	1.324729	1.382186		4.3	20
Methylene chloride	A	100.0	104.6	0.2617562	0.273865		4.6	20
Naphthalene	A	100.0	102.8	1.415562	1.454617		2.8	20
4-Methyl-2-pentanone	L	200.0	282.6	0.2489881	0.3709827		41.3	20 *
Methyl t-Butyl Ether	A	100.0	118.1	0.5979716	0.7064798		18.1	20
n-Propylbenzene	A	100.0	96.34	2.594076	2.49919		-3.7	20
Styrene	A	100.0	96.89	1.204421	1.167012		-3.1	20
1,1,2,2-Tetrachloroethane	A	100.0	93.44	0.7277649	0.6799902	0.3	-6.6	20
1,1,1,2-Tetrachloroethane	A	100.0	100.9	0.4510822	0.4551032		0.9	20
Tetrachloroethene	A	100.0	101.9	0.471928	0.48086		1.9	20
Toluene	A	100.0	91.47	1.049879	0.9603492		-8.5	20
1,2,3-Trichlorobenzene	A	100.0	105.7	0.5841777	0.6175225		5.7	20
1,2,4-Trichlorobenzene	A	100.0	105.2	0.6562098	0.6902299		5.2	20
1,1,2-Trichloroethane	A	100.0	91.43	0.3903573	0.3569044		-8.6	20
1,1,1-Trichloroethane	A	100.0	122.2	0.3663266	0.4476627		22.2	20 *
Trichloroethene	A	100.0	108.4	0.246407	0.2669834		8.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	120.7	0.4122274	0.4974031		20.7	20 *
1,2,3-Trichloropropane	A	100.0	101.4	0.1661066	0.1684455		1.4	20
1,3,5-Trimethylbenzene	A	100.0	99.33	1.696793	1.685414		-0.7	20
1,2,4-Trimethylbenzene	A	100.0	101.8	1.726979	1.758064		1.8	20
Vinyl chloride	A	100.0	112.5	0.305846	0.3440009		12.5	20
m,p-Xylene	A	200.0	178.8	1.54219	1.379077		-10.6	20
o-Xylene	A	100.0	92.03	1.656056	1.524124		-8.0	20
Bromofluorobenzene	A	30.00	28.02	0.8788963	0.8209962		-6.6	20
Dibromofluoromethane	A	30.00	32.91	0.3260638	0.3576512		9.7	20
1,2-Dichloroethane-d4	A	30.00	28.77	6.495731E-02	6.229288E-02		-4.1	20
Toluene-d8	A	30.00	26.95	1.870203	1.680189		-10.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BLK1 File ID: 0217BL1E.D

Sampled: Prepared: Analyzed: 02/17/11 23:03

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.62	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.741	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BLK1 File ID: 0217BL1E.D

Sampled: Prepared: Analyzed: 02/17/11 23:03

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.00	103	75 - 120	
Dibromofluoromethane	30.00	31.09	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.19	101	70 - 120	
Toluene-d8	30.00	29.52	98.4	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BS1 File ID: 0217LS1E.D

Sampled: Prepared: Analyzed: 02/17/11 21:37

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	110	2.50	5.00	10.0	B
71-43-2	Benzene	52.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.9	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	66.8	0.250	0.500	1.00	X
75-25-2	Bromoform	58.0	0.250	0.500	1.00	
74-83-9	Bromomethane	24.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.2	0.250	0.500	1.00	
78-93-3	2-Butanone	98.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	60.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.9	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	53.7	0.250	0.500	1.00	
75-00-3	Chloroethane	57.6	0.500	1.00	2.00	
67-66-3	Chloroform	55.4	0.250	0.500	1.00	
74-87-3	Chloromethane	52.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	83.6	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	60.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	55.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BS1 File ID: 0217LS1E.D

Sampled: Prepared: Analyzed: 02/17/11 21:37

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	95.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	57.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.9	0.500	1.00	2.00	
91-20-3	Naphthalene	52.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	109	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	108	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.9	0.250	0.500	1.00	
100-42-5	Styrene	54.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	66.4	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	53.8	0.250	0.500	1.00	
108-88-3	Toluene	51.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.8	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	61.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	56.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	66.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	59.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.6	0.500	1.00	2.00	
95-47-6	o-Xylene	51.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.32	101	75 - 120	
Dibromofluoromethane	30.00	31.07	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	29.93	99.8	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BSD1 File ID: 0217LCSDE.D

Sampled: Prepared: Analyzed: 02/18/11 07:29

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	B
71-43-2	Benzene	51.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	65.4	0.250	0.500	1.00	X
75-25-2	Bromoform	55.0	0.250	0.500	1.00	
74-83-9	Bromomethane	20.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.2	0.250	0.500	1.00	
78-93-3	2-Butanone	102	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	57.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.5	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	53.9	0.250	0.500	1.00	
75-00-3	Chloroethane	56.2	0.500	1.00	2.00	
67-66-3	Chloroform	55.7	0.250	0.500	1.00	
74-87-3	Chloromethane	53.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	74.5	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	56.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	36.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	48.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	56.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	48.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BSD1 File ID: 0217LCSDE.D

Sampled: Prepared: Analyzed: 02/18/11 07:29

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	57.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	121	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.3	0.250	0.500	1.00	
100-42-5	Styrene	56.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	65.7	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	52.8	0.250	0.500	1.00	
108-88-3	Toluene	51.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	47.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	56.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	58.7	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	56.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	100	0.500	1.00	2.00	
95-47-6	o-Xylene	52.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.88	103	75 - 120	
Dibromofluoromethane	30.00	30.99	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.53	102	70 - 120	
Toluene-d8	30.00	29.39	98.0	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BLK1 File ID: 0218BL1.D

Sampled: Prepared: Analyzed: 02/18/11 10:53

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	Q, X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	Q, X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BLK1 File ID: 0218BL1.D

Sampled: Prepared: Analyzed: 02/18/11 10:53

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.48	105	75 - 120	
Dibromofluoromethane	30.00	32.85	110	85 - 115	
1,2-Dichloroethane-d4	30.00	29.55	98.5	70 - 120	
Toluene-d8	30.00	28.59	95.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BS1 File ID: 0218LS1.D

Sampled: Prepared: Analyzed: 02/18/11 09:25

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	112	2.50	5.00	10.0	
71-43-2	Benzene	52.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.7	0.250	0.500	1.00	
75-25-2	Bromoform	65.3	0.250	0.500	1.00	X
74-83-9	Bromomethane	55.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.7	0.250	0.500	1.00	
78-93-3	2-Butanone	98.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.6	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.6	0.250	0.500	1.00	
75-00-3	Chloroethane	56.6	0.500	1.00	2.00	
67-66-3	Chloroform	56.3	0.250	0.500	1.00	
74-87-3	Chloromethane	54.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	60.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	57.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	60.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	64.0	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	59.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	56.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	57.9	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	59.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	55.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	63.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	62.4	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BS1 File ID: 0218LS1.D

Sampled: Prepared: Analyzed: 02/18/11 09:25

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	94.8	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	58.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.7	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	121	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.0	0.250	0.500	1.00	
100-42-5	Styrene	55.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	57.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	56.4	0.250	0.500	1.00	
108-88-3	Toluene	51.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.4	0.250	0.500	1.00	X
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	59.7	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	55.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.4	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	107	0.500	1.00	2.00	
95-47-6	o-Xylene	52.7	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.36	101	75 - 120	
Dibromofluoromethane	30.00	31.88	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.35	101	70 - 120	
Toluene-d8	30.00	28.60	95.3	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BSD1 File ID: 0218LD1.D

Sampled: Prepared: Analyzed: 02/18/11 20:27

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	
71-43-2	Benzene	54.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.4	0.250	0.500	1.00	
75-25-2	Bromoform	64.1	0.250	0.500	1.00	X
74-83-9	Bromomethane	53.9	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.6	0.250	0.500	1.00	
78-93-3	2-Butanone	94.0	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	63.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.1	0.250	0.500	1.00	
75-00-3	Chloroethane	57.8	0.500	1.00	2.00	
67-66-3	Chloroform	58.1	0.250	0.500	1.00	
74-87-3	Chloromethane	56.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	60.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.7	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	59.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	63.9	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	65.6	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	61.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	53.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.0	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	58.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	56.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	55.6	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BSD1 File ID: 0218LD1.D

Sampled: Prepared: Analyzed: 02/18/11 20:27

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	95.6	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	59.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.5	0.500	1.00	2.00	
91-20-3	Naphthalene	48.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	118	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.5	0.250	0.500	1.00	
100-42-5	Styrene	55.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.5	0.250	0.500	1.00	
108-88-3	Toluene	50.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	47.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.6	0.250	0.500	1.00	X
79-01-6	Trichloroethene	57.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	61.5	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	52.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	52.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.28	101	75 - 120	
Dibromofluoromethane	30.00	32.71	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.63	102	70 - 120	
Toluene-d8	30.00	28.11	93.7	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BLK1 File ID: 0219BL1.D

Sampled: Prepared: Analyzed: 02/19/11 13:35

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.751	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BLK1 File ID: 0219BL1.D

Sampled: Prepared: Analyzed: 02/19/11 13:35

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.46	105	75 - 120	
Dibromofluoromethane	30.00	31.93	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.54	105	70 - 120	
Toluene-d8	30.00	30.46	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BS1 File ID: 0219LS1.D

Sampled: Prepared: Analyzed: 02/19/11 12:08

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	X
71-43-2	Benzene	52.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	69.8	0.250	0.500	1.00	X
75-25-2	Bromoform	60.8	0.250	0.500	1.00	
74-83-9	Bromomethane	27.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.0	0.250	0.500	1.00	
78-93-3	2-Butanone	96.7	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	52.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	58.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	64.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.4	0.250	0.500	1.00	
75-00-3	Chloroethane	60.8	0.500	1.00	2.00	
67-66-3	Chloroform	56.2	0.250	0.500	1.00	
74-87-3	Chloromethane	55.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	61.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	53.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	54.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	95.1	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.7	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	57.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	56.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.5	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BS1 File ID: 0219LS1.D

Sampled: Prepared: Analyzed: 02/19/11 12:08

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	95.2	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.3	0.500	1.00	2.00	
91-20-3	Naphthalene	51.8	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	115	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.2	0.250	0.500	1.00	
100-42-5	Styrene	55.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	66.7	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	51.9	0.250	0.500	1.00	
108-88-3	Toluene	49.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	63.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	57.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	67.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	55.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	97.3	0.500	1.00	2.00	
95-47-6	o-Xylene	50.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.87	99.6	75 - 120	
Dibromofluoromethane	30.00	31.22	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.13	104	70 - 120	
Toluene-d8	30.00	28.74	95.8	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BLK1 File ID: 0221BL1.D

Sampled: Prepared: Analyzed: 02/21/11 10:33

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.301	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BLK1 File ID: 0221BL1.D

Sampled: Prepared: Analyzed: 02/21/11 10:33

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.12	97.1	75 - 120	
Dibromofluoromethane	30.00	32.58	109	85 - 115	
1,2-Dichloroethane-d4	30.00	31.17	104	70 - 120	
Toluene-d8	30.00	29.86	99.5	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BS1 File ID: 0221LS1.D

Sampled: Prepared: Analyzed: 02/21/11 09:05

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	118	2.50	5.00	10.0	X
71-43-2	Benzene	52.7	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.2	0.250	0.500	1.00	
75-25-2	Bromoform	62.5	0.250	0.500	1.00	
74-83-9	Bromomethane	52.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.9	0.250	0.500	1.00	
78-93-3	2-Butanone	101	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	59.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.1	0.250	0.500	1.00	
75-00-3	Chloroethane	55.6	0.500	1.00	2.00	
67-66-3	Chloroform	54.8	0.250	0.500	1.00	
74-87-3	Chloromethane	53.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.5	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	61.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	54.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.2	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	58.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	63.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BS1 File ID: 0221LS1.D

Sampled: Prepared: Analyzed: 02/21/11 09:05

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	101	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	58.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.9	0.500	1.00	2.00	
91-20-3	Naphthalene	51.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	105	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.1	0.250	0.500	1.00	
100-42-5	Styrene	54.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.7	0.250	0.500	1.00	
108-88-3	Toluene	49.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	54.5	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	57.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.03	96.8	75 - 120	
Dibromofluoromethane	30.00	31.05	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.61	98.7	70 - 120	
Toluene-d8	30.00	28.24	94.1	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BSD1 File ID: 0221LD1.D

Sampled: Prepared: Analyzed: 02/21/11 20:12

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	122	2.50	5.00	10.0	X
71-43-2	Benzene	46.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.4	0.250	0.500	1.00	
75-25-2	Bromoform	60.5	0.250	0.500	1.00	
74-83-9	Bromomethane	38.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	45.3	0.250	0.500	1.00	
78-93-3	2-Butanone	101	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	46.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	45.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	45.0	0.250	0.500	1.00	
75-00-3	Chloroethane	49.2	0.500	1.00	2.00	
67-66-3	Chloroform	51.1	0.250	0.500	1.00	
74-87-3	Chloromethane	43.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	45.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	46.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	46.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	46.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	45.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	59.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	53.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	49.4	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	47.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	45.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	48.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	53.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.8	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BSD1 File ID: 0221LD1.D

Sampled: Prepared: Analyzed: 02/21/11 20:12

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	104	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	46.9	0.500	1.00	2.00	
91-20-3	Naphthalene	43.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	112	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	101	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	46.6	0.250	0.500	1.00	
100-42-5	Styrene	49.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.9	0.250	0.500	1.00	
108-88-3	Toluene	44.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	43.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	43.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	44.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	48.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.2	0.500	1.00	2.00	
95-47-6	o-Xylene	49.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.34	101	75 - 120	
Dibromofluoromethane	30.00	31.97	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.87	99.6	70 - 120	
Toluene-d8	30.00	28.31	94.4	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BLK1 File ID: 0222BL1.D

Sampled: Prepared: Analyzed: 02/22/11 09:45

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.786	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BLK1 File ID: 0222BL1.D

Sampled: Prepared: Analyzed: 02/22/11 09:45

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.03	103	75 - 120	
Dibromofluoromethane	30.00	31.27	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.87	103	70 - 120	
Toluene-d8	30.00	29.12	97.1	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BS1 File ID: 0222LS1.D

Sampled: Prepared: Analyzed: 02/22/11 08:19

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	123	2.50	5.00	10.0	X
71-43-2	Benzene	52.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	68.8	0.250	0.500	1.00	X
75-25-2	Bromoform	61.7	0.250	0.500	1.00	
74-83-9	Bromomethane	31.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	53.3	0.250	0.500	1.00	
78-93-3	2-Butanone	110	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	59.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	64.3	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	53.1	0.250	0.500	1.00	
75-00-3	Chloroethane	61.9	0.500	1.00	2.00	
67-66-3	Chloroform	57.2	0.250	0.500	1.00	
74-87-3	Chloromethane	58.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	54.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	61.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	54.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	54.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	86.5	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	60.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	58.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	57.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	57.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	55.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	62.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	56.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BS1 File ID: 0222LS1.D

Sampled: Prepared: Analyzed: 02/22/11 08:19

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	106	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	57.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.0	0.500	1.00	2.00	
91-20-3	Naphthalene	52.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	124	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	108	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.6	0.250	0.500	1.00	
100-42-5	Styrene	54.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	66.9	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	53.0	0.250	0.500	1.00	
108-88-3	Toluene	50.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	63.7	0.250	0.500	1.00	X
79-01-6	Trichloroethene	57.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	64.5	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.7	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	63.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.7	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.66	98.9	75 - 120	
Dibromofluoromethane	30.00	31.53	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.07	104	70 - 120	
Toluene-d8	30.00	28.33	94.4	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MS1 File ID: 0216601M.D

Sampled: Prepared: Analyzed: 02/22/11 18:12

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	13200	250	500	1000	X, D
71-43-2	Benzene	9360	25.0	50.0	100	D
108-86-1	Bromobenzene	5250	25.0	50.0	100	D
74-97-5	Bromochloromethane	5830	25.0	50.0	100	D
75-27-4	Bromodichloromethane	7250	25.0	50.0	100	Q, X, D
75-25-2	Bromoform	5790	25.0	50.0	100	D
74-83-9	Bromomethane	3050	50.0	100	200	Y, D
104-51-8	n-Butylbenzene	5240	25.0	50.0	100	D
78-93-3	2-Butanone	10200	250	500	1000	X, D
135-98-8	sec-Butylbenzene	5340	25.0	50.0	100	D
98-06-6	tert-Butylbenzene	5640	25.0	50.0	100	D
75-15-0	Carbon disulfide	6060	25.0	50.0	100	D
56-23-5	Carbon tetrachloride	6680	25.0	50.0	100	X, D
108-90-7	Chlorobenzene	5290	25.0	50.0	100	D
75-00-3	Chloroethane	5900	50.0	100	200	D
67-66-3	Chloroform	6060	25.0	50.0	100	D
74-87-3	Chloromethane	5810	25.0	50.0	100	D
95-49-8	2-Chlorotoluene	5290	25.0	50.0	100	D
106-43-4	4-Chlorotoluene	5400	25.0	50.0	100	D
124-48-1	Dibromochloromethane	5910	25.0	50.0	100	D
96-12-8	1,2-Dibromo-3-chloropropane	4810	50.0	100	200	D
106-93-4	1,2-Dibromoethane (EDB)	5540	25.0	50.0	100	D
74-95-3	Dibromomethane	6020	25.0	50.0	100	D
95-50-1	1,2-Dichlorobenzene	5390	25.0	50.0	100	D
541-73-1	1,3-Dichlorobenzene	5130	25.0	50.0	100	D
106-46-7	1,4-Dichlorobenzene	5470	25.0	50.0	100	D
75-71-8	Dichlorodifluoromethane	9240	50.0	100	200	Q, X, D
75-34-3	1,1-Dichloroethane	5780	25.0	50.0	100	D
107-06-2	1,2-Dichloroethane	6570	25.0	50.0	100	D
75-35-4	1,1-Dichloroethene	6010	25.0	50.0	100	D
156-59-2	cis-1,2-Dichloroethene	5390	25.0	50.0	100	D
156-60-5	trans-1,2-Dichloroethene	5570	25.0	50.0	100	D
78-87-5	1,2-Dichloropropane	5360	25.0	50.0	100	D
142-28-9	1,3-Dichloropropane	5110	25.0	50.0	100	D
594-20-7	2,2-Dichloropropane	5400	25.0	50.0	100	D
563-58-6	1,1-Dichloropropene	5890	25.0	50.0	100	D
10061-01-5	cis-1,3-Dichloropropene	5470	25.0	50.0	100	D
10061-02-6	trans-1,3-Dichloropropene	5870	25.0	50.0	100	D
100-41-4	Ethylbenzene	6240	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene	4980	25.0	50.0	100	D, B

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MS1 File ID: 0216601M.D

Sampled: Prepared: Analyzed: 02/22/11 18:12

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	9360	125	250	500	X, D
98-82-8	Isopropylbenzene	5960	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene	5450	25.0	50.0	100	D
75-09-2	Methylene chloride	5490	50.0	100	200	D
91-20-3	Naphthalene	4990	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone	11500	125	250	500	X, D
1634-04-4	Methyl t-Butyl Ether	11000	25.0	50.0	100	D
103-65-1	n-Propylbenzene	5510	25.0	50.0	100	D
100-42-5	Styrene	5450	25.0	50.0	100	D
79-34-5	1,1,2,2-Tetrachloroethane	4730	25.0	50.0	100	D
630-20-6	1,1,1,2-Tetrachloroethane	6720	25.0	50.0	100	Q, X, D
127-18-4	Tetrachloroethene	5310	25.0	50.0	100	D
108-88-3	Toluene	11600	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene	4760	25.0	50.0	100	D
120-82-1	1,2,4-Trichlorobenzene	4850	25.0	50.0	100	D
79-00-5	1,1,2-Trichloroethane	4990	25.0	50.0	100	D
71-55-6	1,1,1-Trichloroethane	6660	25.0	50.0	100	X, D
79-01-6	Trichloroethene	6050	25.0	50.0	100	D
75-69-4	Trichlorofluoromethane	7310	50.0	100	200	X, D
96-18-4	1,2,3-Trichloropropane	5690	50.0	100	200	D
108-67-8	1,3,5-Trimethylbenzene	5490	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	5780	25.0	50.0	100	D
75-01-4	Vinyl chloride	6050	25.0	50.0	100	D
108-38-3/106-42-	m,p-Xylene	11400	50.0	100	200	D
95-47-6	o-Xylene	5800	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.79	99.3	75 - 120	
Dibromofluoromethane	30.00	31.68	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.26	101	70 - 120	
Toluene-d8	30.00	27.82	92.7	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MSD1 File ID: 0216601S.D

Sampled: Prepared: Analyzed: 02/22/11 18:42

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	13700	250	500	1000	X, D
71-43-2	Benzene	8410	25.0	50.0	100	D
108-86-1	Bromobenzene	4680	25.0	50.0	100	D
74-97-5	Bromochloromethane	5090	25.0	50.0	100	D
75-27-4	Bromodichloromethane	6430	25.0	50.0	100	Q, X, D
75-25-2	Bromoform	5470	25.0	50.0	100	D
74-83-9	Bromomethane	2800	50.0	100	200	Y, D
104-51-8	n-Butylbenzene	4650	25.0	50.0	100	D
78-93-3	2-Butanone	10500	250	500	1000	X, D
135-98-8	sec-Butylbenzene	4690	25.0	50.0	100	D
98-06-6	tert-Butylbenzene	4970	25.0	50.0	100	D
75-15-0	Carbon disulfide	5340	25.0	50.0	100	D
56-23-5	Carbon tetrachloride	5930	25.0	50.0	100	X, D
108-90-7	Chlorobenzene	4800	25.0	50.0	100	D
75-00-3	Chloroethane	5270	50.0	100	200	D
67-66-3	Chloroform	5360	25.0	50.0	100	D
74-87-3	Chloromethane	5280	25.0	50.0	100	D
95-49-8	2-Chlorotoluene	4670	25.0	50.0	100	D
106-43-4	4-Chlorotoluene	4840	25.0	50.0	100	D
124-48-1	Dibromochloromethane	5550	25.0	50.0	100	D
96-12-8	1,2-Dibromo-3-chloropropane	4670	50.0	100	200	D
106-93-4	1,2-Dibromoethane (EDB)	5260	25.0	50.0	100	D
74-95-3	Dibromomethane	5390	25.0	50.0	100	D
95-50-1	1,2-Dichlorobenzene	4730	25.0	50.0	100	D
541-73-1	1,3-Dichlorobenzene	4560	25.0	50.0	100	D
106-46-7	1,4-Dichlorobenzene	4890	25.0	50.0	100	D
75-71-8	Dichlorodifluoromethane	8740	50.0	100	200	Q, X, D
75-34-3	1,1-Dichloroethane	5050	25.0	50.0	100	D
107-06-2	1,2-Dichloroethane	5840	25.0	50.0	100	D
75-35-4	1,1-Dichloroethene	5380	25.0	50.0	100	D
156-59-2	cis-1,2-Dichloroethene	4870	25.0	50.0	100	D
156-60-5	trans-1,2-Dichloroethene	5070	25.0	50.0	100	D
78-87-5	1,2-Dichloropropane	4750	25.0	50.0	100	D
142-28-9	1,3-Dichloropropane	4780	25.0	50.0	100	D
594-20-7	2,2-Dichloropropane	4680	25.0	50.0	100	D
563-58-6	1,1-Dichloropropene	5220	25.0	50.0	100	D
10061-01-5	cis-1,3-Dichloropropene	4890	25.0	50.0	100	D
10061-02-6	trans-1,3-Dichloropropene	5480	25.0	50.0	100	D
100-41-4	Ethylbenzene	5650	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene	4650	25.0	50.0	100	D, B

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MSD1 File ID: 0216601S.D

Sampled: Prepared: Analyzed: 02/22/11 18:42

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	9870	125	250	500	X, D
98-82-8	Isopropylbenzene	5340	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene	4790	25.0	50.0	100	D
75-09-2	Methylene chloride	4830	50.0	100	200	D
91-20-3	Naphthalene	4640	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone	12000	125	250	500	X, D
1634-04-4	Methyl t-Butyl Ether	10100	25.0	50.0	100	D
103-65-1	n-Propylbenzene	4860	25.0	50.0	100	D
100-42-5	Styrene	5120	25.0	50.0	100	D
79-34-5	1,1,2,2-Tetrachloroethane	4530	25.0	50.0	100	D
630-20-6	1,1,1,2-Tetrachloroethane	6100	25.0	50.0	100	Q, X, D
127-18-4	Tetrachloroethene	4730	25.0	50.0	100	D
108-88-3	Toluene	10900	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene	4390	25.0	50.0	100	D
120-82-1	1,2,4-Trichlorobenzene	4260	25.0	50.0	100	D
79-00-5	1,1,2-Trichloroethane	4700	25.0	50.0	100	D
71-55-6	1,1,1-Trichloroethane	5830	25.0	50.0	100	X, D
79-01-6	Trichloroethene	5220	25.0	50.0	100	D
75-69-4	Trichlorofluoromethane	6270	50.0	100	200	X, D
96-18-4	1,2,3-Trichloropropane	5470	50.0	100	200	D
108-67-8	1,3,5-Trimethylbenzene	4820	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	4990	25.0	50.0	100	D
75-01-4	Vinyl chloride	5670	25.0	50.0	100	D
108-38-3/106-42-	m,p-Xylene	10300	50.0	100	200	D
95-47-6	o-Xylene	5350	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	32.11	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.74	99.1	70 - 120	
Toluene-d8	30.00	29.06	96.9	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BLK1 File ID: 0223BL1.D

Sampled: Prepared: Analyzed: 02/23/11 12:57

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	Q, X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	X, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	Q, X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	X, U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	X, U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BLK1 File ID: 0223BL1.D

Sampled: Prepared: Analyzed: 02/23/11 12:57

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.87	103	75 - 120	
Dibromofluoromethane	30.00	32.94	110	85 - 115	
1,2-Dichloroethane-d4	30.00	31.53	105	70 - 120	
Toluene-d8	30.00	29.06	96.9	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: kirtland_004

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 1B23016-BS1 | File ID: 0223LS1.D

Sampled: | Prepared: | Analyzed: 02/23/11 10:59

Solids: | Preparation: 5030B | Dilution:

Batch: 1B23016 | Sequence: 1B05514 | Calibration: 0349002 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	115	2.50	5.00	10.0	X
71-43-2	Benzene	51.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.9	0.250	0.500	1.00	X
75-25-2	Bromoform	64.4	0.250	0.500	1.00	X
74-83-9	Bromomethane	54.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.0	0.250	0.500	1.00	
78-93-3	2-Butanone	89.4	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	50.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	50.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	60.4	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.3	0.250	0.500	1.00	
75-00-3	Chloroethane	53.7	0.500	1.00	2.00	
67-66-3	Chloroform	56.2	0.250	0.500	1.00	
74-87-3	Chloromethane	52.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	60.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.6	0.500	1.00	2.00	X
106-93-4	1,2-Dibromoethane (EDB)	53.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	58.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	62.2	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	58.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	55.6	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	57.7	0.250	0.500	1.00	X
10061-01-5	cis-1,3-Dichloropropene	54.9	0.250	0.500	1.00	X
10061-02-6	trans-1,3-Dichloropropene	62.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	59.9	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BS1 File ID: 0223LS1.D

Sampled: Prepared: Analyzed: 02/23/11 10:59

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	93.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.6	0.500	1.00	2.00	
91-20-3	Naphthalene	51.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	100	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	116	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.6	0.250	0.500	1.00	
100-42-5	Styrene	54.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.5	0.250	0.500	1.00	
108-88-3	Toluene	49.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.2	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	58.8	0.250	0.500	1.00	X
79-01-6	Trichloroethene	54.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	60.3	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	52.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.49	95.0	75 - 120	
Dibromofluoromethane	30.00	32.84	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.66	102	70 - 120	
Toluene-d8	30.00	28.05	93.5	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BSD1 File ID: 0223LD1.D

Sampled: Prepared: Analyzed: 02/23/11 22:01

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	118	2.50	5.00	10.0	X
71-43-2	Benzene	52.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.6	0.250	0.500	1.00	X
75-25-2	Bromoform	68.5	0.250	0.500	1.00	X
74-83-9	Bromomethane	47.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.9	0.250	0.500	1.00	
78-93-3	2-Butanone	92.5	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	50.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	48.2	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.1	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	49.5	0.250	0.500	1.00	
75-00-3	Chloroethane	51.0	0.500	1.00	2.00	
67-66-3	Chloroform	57.5	0.250	0.500	1.00	
74-87-3	Chloromethane	48.1	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	62.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.8	0.500	1.00	2.00	X
106-93-4	1,2-Dibromoethane (EDB)	55.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	59.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	55.2	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	53.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	67.3	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	55.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.2	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	56.0	0.250	0.500	1.00	X
10061-01-5	cis-1,3-Dichloropropene	55.1	0.250	0.500	1.00	X
10061-02-6	trans-1,3-Dichloropropene	62.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.7	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BSD1 File ID: 0223LD1.D

Sampled: Prepared: Analyzed: 02/23/11 22:01

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	59.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	54.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	105	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	117	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.2	0.250	0.500	1.00	
100-42-5	Styrene	55.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	58.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.0	0.250	0.500	1.00	
108-88-3	Toluene	48.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.6	0.250	0.500	1.00	X
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	58.6	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.4	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	54.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.63	105	75 - 120	
Dibromofluoromethane	30.00	32.31	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.86	103	70 - 120	
Toluene-d8	30.00	27.87	92.9	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BLK1 File ID: 0224BL1.D

Sampled: Prepared: Analyzed: 02/24/11 08:54

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BLK1 File ID: 0224BL1.D

Sampled: Prepared: Analyzed: 02/24/11 08:54

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.57	102	75 - 120	
Dibromofluoromethane	30.00	33.27	111	85 - 115	
1,2-Dichloroethane-d4	30.00	30.17	101	70 - 120	
Toluene-d8	30.00	30.04	100	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BS1 File ID: 0224LS1.D

Sampled: Prepared: Analyzed: 02/24/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	X
71-43-2	Benzene	51.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	57.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.5	0.250	0.500	1.00	
75-25-2	Bromoform	61.7	0.250	0.500	1.00	X
74-83-9	Bromomethane	54.4	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.2	0.250	0.500	1.00	
78-93-3	2-Butanone	99.2	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	60.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.2	0.250	0.500	1.00	
75-00-3	Chloroethane	53.7	0.500	1.00	2.00	
67-66-3	Chloroform	55.3	0.250	0.500	1.00	
74-87-3	Chloromethane	52.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	57.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	53.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	58.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	54.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.9	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	60.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	58.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	57.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	63.8	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BS1 File ID: 0224LS1.D

Sampled: Prepared: Analyzed: 02/24/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	102	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	58.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	48.8	0.500	1.00	2.00	
91-20-3	Naphthalene	49.9	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	109	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.9	0.250	0.500	1.00	
100-42-5	Styrene	55.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	57.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	55.8	0.250	0.500	1.00	
108-88-3	Toluene	51.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	46.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	58.9	0.250	0.500	1.00	X
79-01-6	Trichloroethene	55.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	60.1	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	51.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	51.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.76	99.2	75 - 120	
Dibromofluoromethane	30.00	31.27	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.98	103	70 - 120	
Toluene-d8	30.00	29.42	98.1	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BLK1 File ID: 0224BL1E.D

Sampled: Prepared: Analyzed: 02/24/11 21:28

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.317	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BLK1 File ID: 0224BL1E.D

Sampled: Prepared: Analyzed: 02/24/11 21:28

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.26	101	75 - 120	
Dibromofluoromethane	30.00	32.69	109	85 - 115	
1,2-Dichloroethane-d4	30.00	29.56	98.5	70 - 120	
Toluene-d8	30.00	29.91	99.7	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BS1 File ID: 0224LS1E.D

Sampled: Prepared: Analyzed: 02/24/11 20:00

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	X
71-43-2	Benzene	47.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.1	0.250	0.500	1.00	
75-25-2	Bromoform	66.5	0.250	0.500	1.00	
74-83-9	Bromomethane	24.3	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	103	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	52.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	28.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.5	0.250	0.500	1.00	
75-00-3	Chloroethane	28.2	0.500	1.00	2.00	
67-66-3	Chloroform	51.3	0.250	0.500	1.00	
74-87-3	Chloromethane	10.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	52.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	2.55	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	48.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	42.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	46.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	62.7	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BS1 File ID: 0224LS1E.D

Sampled: Prepared: Analyzed: 02/24/11 20:00

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	109	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	59.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.8	0.500	1.00	2.00	
91-20-3	Naphthalene	53.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	111	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	97.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.0	0.250	0.500	1.00	
100-42-5	Styrene	55.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.8	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.6	0.250	0.500	1.00	
108-88-3	Toluene	48.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.1	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	51.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	31.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	54.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	15.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	53.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.29	97.6	75 - 120	
Dibromofluoromethane	30.00	31.42	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	28.89	96.3	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BSD1 File ID: 0224LD1E.D

Sampled: Prepared: Analyzed: 02/25/11 02:30

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	115	2.50	5.00	10.0	X
71-43-2	Benzene	45.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.4	0.250	0.500	1.00	
75-25-2	Bromoform	65.9	0.250	0.500	1.00	
74-83-9	Bromomethane	20.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.4	0.250	0.500	1.00	
78-93-3	2-Butanone	100	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	26.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.2	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	48.5	0.250	0.500	1.00	
75-00-3	Chloroethane	24.1	0.500	1.00	2.00	
67-66-3	Chloroform	49.6	0.250	0.500	1.00	
74-87-3	Chloromethane	9.52	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	45.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	55.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	55.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	2.20	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	46.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	38.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	47.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	43.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	46.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	39.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	58.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	58.2	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BSD1 File ID: 0224LD1E.D

Sampled: Prepared: Analyzed: 02/25/11 02:30

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	103	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	59.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	43.5	0.500	1.00	2.00	
91-20-3	Naphthalene	51.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	107	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	96.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.5	0.250	0.500	1.00	
100-42-5	Styrene	54.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.7	0.250	0.500	1.00	
108-88-3	Toluene	48.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.2	0.250	0.500	1.00	X
79-01-6	Trichloroethene	49.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	30.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	55.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	14.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.81	103	75 - 120	
Dibromofluoromethane	30.00	30.75	102	85 - 115	
1,2-Dichloroethane-d4	30.00	28.48	94.9	70 - 120	
Toluene-d8	30.00	29.43	98.1	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/19/11 00:00	N/A	14.00	02/19/11 15:04	4.89	14.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/17/11 11:15	N/A	14.00	02/18/11 06:00	3.51	14.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/17/11 11:15	N/A	14.00	02/18/11 06:30	3.76	14.00	
GW8013-TB	02/14/11 08:00	02/15/11 08:45	02/17/11 11:15	N/A	14.00	02/18/11 00:33	3.69	14.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 15:56	3.08	14.00	
GW8002-AB	02/15/11 10:30	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 12:54	3.10	14.00	
GW8002-RB	02/15/11 14:50	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 12:24	2.90	14.00	
GW8014-TB	02/15/11 08:00	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 11:23	3.14	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/22/11 00:00	N/A	14.00	02/22/11 16:43	6.21	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/22/11 00:00	N/A	14.00	02/22/11 17:12	6.05	14.00	
GW8015-TB	02/16/11 08:00	02/17/11 08:45	02/21/11 00:00	N/A	14.00	02/21/11 11:07	5.09	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 23:59	7.34	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/25/11 00:29	7.51	14.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 22:28	7.47	14.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 22:59	7.46	14.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 23:29	7.49	14.00	
GW8016-TB	02/17/11 08:00	02/18/11 08:45	02/23/11 00:00	N/A	14.00	02/23/11 13:27	6.23	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/24/11 00:00	N/A	14.00	02/24/11 16:28	6.10	14.00	
GW8017-TB	02/18/11 08:00	02/19/11 09:30	02/24/11 00:00	N/A	14.00	02/24/11 09:24	6.06	14.00	

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

GW0039-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-02	File ID:	0214102.D
Sampled:	02/15/11 10:30	Prepared:	02/18/11 14:18	Analyzed:	02/24/11 23:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B18006 Sequence: 1B05614 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	U
120-12-7	Anthracene		0.0467	0.0935	0.187	U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	X, U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	U
218-01-9	Chrysene		0.0467	0.0935	0.187	X, U
53-70-3	Dibenz(a,h)anthracene	0.248	0.0467	0.0935	0.187	
206-44-0	Fluoranthene		0.0467	0.0935	0.187	U
86-73-7	Fluorene		0.0467	0.0935	0.187	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	U
90-12-0	1-Methylnaphthalene	0.0472	0.0467	0.0935	0.187	J, B
91-57-6	2-Methylnaphthalene	0.0763	0.0467	0.0935	0.187	J, B
91-20-3	Naphthalene	0.0751	0.0467	0.0935	0.187	J, B
85-01-8	Phenanthrene		0.0467	0.0935	0.187	U
129-00-0	Pyrene		0.0467	0.0935	0.187	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	48.07	103	34 - 167	
Terphenyl-d14	46.73	42.02	89.9	34 - 167	X

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	0217405.D
Sampled:	02/17/11 10:18	Prepared:	02/25/11 16:45	Analyzed:	03/04/11 18:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0472	0.0943	0.189	H2, U
208-96-8	Acenaphthylene		0.0472	0.0943	0.189	H2, U
120-12-7	Anthracene		0.0472	0.0943	0.189	H2, U
56-55-3	Benzo(a)anthracene		0.0472	0.0943	0.189	H2, U
50-32-8	Benzo(a)pyrene		0.0472	0.0943	0.189	H2, U
205-99-2	Benzo(b)fluoranthene		0.0472	0.0943	0.189	H2, U
191-24-2	Benzo(g,h,i)perylene		0.0472	0.0943	0.189	H2, U
207-08-9	Benzo(k)fluoranthene		0.0472	0.0943	0.189	H2, U
218-01-9	Chrysene		0.0472	0.0943	0.189	H2, U
53-70-3	Dibenz(a,h)anthracene		0.0472	0.0943	0.189	H2, U
206-44-0	Fluoranthene		0.0472	0.0943	0.189	H2, U
86-73-7	Fluorene		0.0472	0.0943	0.189	H2, U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0472	0.0943	0.189	H2, U
90-12-0	1-Methylnaphthalene		0.0472	0.0943	0.189	H2, U
91-57-6	2-Methylnaphthalene		0.0472	0.0943	0.189	H2, U
91-20-3	Naphthalene		0.0472	0.0943	0.189	H2, U
85-01-8	Phenanthrene		0.0472	0.0943	0.189	H2, U
129-00-0	Pyrene		0.0472	0.0943	0.189	H2, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	29.17	61.9	34 - 167	H2
Terphenyl-d14	47.17	19.70	41.8	34 - 167	H2

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	0217407.D
Sampled:	02/17/11 10:50	Prepared:	02/25/11 16:45	Analyzed:	03/04/11 18:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	H2, U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	H2, U
120-12-7	Anthracene		0.0467	0.0935	0.187	H2, U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	H2, U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	H2, U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	H2, U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	H2, U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	H2, U
218-01-9	Chrysene		0.0467	0.0935	0.187	H2, U
53-70-3	Dibenz(a,h)anthracene		0.0467	0.0935	0.187	H2, U
206-44-0	Fluoranthene		0.0467	0.0935	0.187	H2, U
86-73-7	Fluorene		0.0467	0.0935	0.187	H2, U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	H2, U
90-12-0	1-Methylnaphthalene		0.0467	0.0935	0.187	H2, U
91-57-6	2-Methylnaphthalene		0.0467	0.0935	0.187	H2, U
91-20-3	Naphthalene		0.0467	0.0935	0.187	H2, U
85-01-8	Phenanthrene		0.0467	0.0935	0.187	H2, U
129-00-0	Pyrene		0.0467	0.0935	0.187	H2, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	29.47	63.1	34 - 167	H2
Terphenyl-d14	46.73	20.90	44.7	34 - 167	H2

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05614	Instrument:	MS-BNA4
		Calibration:	1048001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05614-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 02/24/11 20:12		
2-Fluorobiphenyl	5.000	97.6	80 - 120	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	5.000	125	80 - 120	12.46	12.46	0.0000	+/-0.500	*
LCS (1B18006-BS1) ug/L				Lab File ID: B18006L1.D		Analyzed: 02/24/11 21:55		
2-Fluorobiphenyl	50.00	83.4	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	50.00	100	34 - 167	12.46	12.46	0.0000	+/-0.500	
LCS Dup (1B18006-BSD1) ug/L				Lab File ID: B18006L2.D		Analyzed: 02/24/11 22:21		
2-Fluorobiphenyl	50.00	78.0	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	50.00	92.8	34 - 167	12.46	12.46	0.0000	+/-0.500	
GW0039-R (1102141-02) ug/L				Lab File ID: 0214102.D		Analyzed: 02/24/11 23:39		
2-Fluorobiphenyl	46.73	103	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	46.73	89.9	34 - 167	12.46	12.46	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05615	Instrument:	MS-BNA4
		Calibration:	1048001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05615-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/25/11 12:30		
2-Fluorobiphenyl	5.000	97.4	80 - 120	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	5.000	126	80 - 120	12.46	12.46	0.0000	+/-0.500	*
Blank (1B18006-BLK1) ug/L				Lab File ID: B1806B1R.D		Analyzed: 02/25/11 13:46		
2-Fluorobiphenyl	50.00	72.2	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	34 - 167	12.46	12.46	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06708	Instrument:	MS-BNA4
		Calibration:	1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06708-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/04/11 15:30		
2-Fluorobiphenyl	5.000	110	80 - 120	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	5.000	111	80 - 120	13.365	13.365	0.0000	+/-0.500	
Blank (1B25030-BLK1) ug/L				Lab File ID: B25030B1.D		Analyzed: 03/04/11 16:44		
2-Fluorobiphenyl	50.00	69.2	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	50.00	72.3	34 - 167	13.375	13.365	0.0100	+/-0.500	
LCS (1B25030-BS1) ug/L				Lab File ID: B25030L1.D		Analyzed: 03/04/11 17:11		
2-Fluorobiphenyl	50.00	76.6	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	50.00	64.2	34 - 167	13.375	13.365	0.0100	+/-0.500	
LCS Dup (1B25030-BSD1) ug/L				Lab File ID: B25030L2.D		Analyzed: 03/04/11 17:38		
2-Fluorobiphenyl	50.00	86.5	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	50.00	65.9	34 - 167	13.375	13.365	0.0100	+/-0.500	
GW0036 (1102174-05) ug/L				Lab File ID: 0217405.D		Analyzed: 03/04/11 18:05		
2-Fluorobiphenyl	47.17	61.9	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	47.17	41.8	34 - 167	13.375	13.365	0.0100	+/-0.500	
GW0037 (1102174-07) ug/L				Lab File ID: 0217407.D		Analyzed: 03/04/11 18:33		
2-Fluorobiphenyl	46.73	63.1	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	46.73	44.7	34 - 167	13.375	13.365	0.0100	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18006	Laboratory ID:	1B18006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.9122	91.2	41 - 132
Acenaphthylene	1.000	0.8374	83.7	43 - 140
Anthracene	1.000	0.8838	88.4	50 - 139
Benzo(a)anthracene	1.000	1.119	112	58 - 141
Benzo(a)pyrene	1.000	0.8489	84.9	31 - 142
Benzo(b)fluoranthene	1.000	0.9064	90.6	42 - 156
Benzo(g,h,i)perylene	1.000	0.9120	91.2	12 - 171
Benzo(k)fluoranthene	1.000	0.9773	97.7	49 - 165
Chrysene	1.000	1.078	108	51 - 155
Dibenz(a,h)anthracene	1.000	0.8882	88.8	28 - 153
Fluoranthene	1.000	1.050	105	47 - 158
Fluorene	1.000	0.9115	91.2	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.8974	89.7	20 - 167
1-Methylnaphthalene	1.000	0.8869	88.7	35 - 131
2-Methylnaphthalene	1.000	1.045	104	36 - 121
Naphthalene	1.000	1.002	100	39 - 125
Phenanthrene	1.000	1.041	104	46 - 144
Pyrene	1.000	1.035	104	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.8441	84.4	7.75	30	41 - 132
Acenaphthylene	1.000	0.7977	79.8	4.86	30	43 - 140
Anthracene	1.000	0.8945	89.5	1.20	30	50 - 139
Benzo(a)anthracene	1.000	1.131	113	1.05	30	58 - 141
Benzo(a)pyrene	1.000	0.8421	84.2	0.804	30	31 - 142
Benzo(b)fluoranthene	1.000	1.050	105	14.7	30	42 - 156
Benzo(g,h,i)perylene	1.000	1.005	101	9.73	30	12 - 171
Benzo(k)fluoranthene	1.000	0.8906	89.1	9.28	30	49 - 165
Chrysene	1.000	1.099	110	1.87	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18006	Laboratory ID:	1B18006-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	1.000	0.9436	94.4	6.05	30	28 - 153
Fluoranthene	1.000	1.070	107	1.91	30	47 - 158
Fluorene	1.000	0.8944	89.4	1.89	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.9413	94.1	4.78	30	20 - 167
1-Methylnaphthalene	1.000	0.9108	91.1	2.66	30	35 - 131
2-Methylnaphthalene	1.000	1.150	115	9.63	30	36 - 121
Naphthalene	1.000	0.9660	96.6	3.60	30	39 - 125
Phenanthrene	1.000	0.9910	99.1	4.94	30	46 - 144
Pyrene	1.000	1.084	108	4.59	30	39 - 158

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B25030	Laboratory ID:	1B25030-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.8548	85.5	41 - 132
Acenaphthylene	1.000	0.7945	79.4	43 - 140
Anthracene	1.000	0.8476	84.8	50 - 139
Benzo(a)anthracene	1.000	0.7752	77.5	58 - 141
Benzo(a)pyrene	1.000	0.7554	75.5	31 - 142
Benzo(b)fluoranthene	1.000	0.9921	99.2	42 - 156
Benzo(g,h,i)perylene	1.000	0.6155	61.6	12 - 171
Benzo(k)fluoranthene	1.000	0.9030	90.3	49 - 165
Chrysene	1.000	0.6098	61.0	51 - 155
Dibenz(a,h)anthracene	1.000	0.5772	57.7	28 - 153
Fluoranthene	1.000	0.7962	79.6	47 - 158
Fluorene	1.000	0.9264	92.6	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.6239	62.4	20 - 167
1-Methylnaphthalene	1.000	0.8344	83.4	35 - 131
2-Methylnaphthalene	1.000	0.8326	83.3	36 - 121
Naphthalene	1.000	0.8187	81.9	39 - 125
Phenanthrene	1.000	0.9281	92.8	46 - 144
Pyrene	1.000	0.8154	81.5	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.9350	93.5	8.96	30	41 - 132
Acenaphthylene	1.000	0.8751	87.5	9.66	30	43 - 140
Anthracene	1.000	0.8830	88.3	4.09	30	50 - 139
Benzo(a)anthracene	1.000	0.8256	82.6	6.30	30	58 - 141
Benzo(a)pyrene	1.000	0.7692	76.9	1.80	30	31 - 142
Benzo(b)fluoranthene	1.000	0.9170	91.7	7.87	30	42 - 156
Benzo(g,h,i)perylene	1.000	0.6915	69.1	11.6	30	12 - 171
Benzo(k)fluoranthene	1.000	0.8738	87.4	3.28	30	49 - 165
Chrysene	1.000	0.6620	66.2	8.21	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B25030	Laboratory ID:	1B25030-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	1.000	0.5781	57.8	0.161	30	28 - 153
Fluoranthene	1.000	0.8464	84.6	6.11	30	47 - 158
Fluorene	1.000	0.9739	97.4	5.01	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.6096	61.0	2.32	30	20 - 167
1-Methylnaphthalene	1.000	0.9346	93.5	11.3	30	35 - 131
2-Methylnaphthalene	1.000	0.8892	88.9	6.58	30	36 - 121
Naphthalene	1.000	0.9016	90.2	9.64	30	39 - 125
Phenanthrene	1.000	0.9601	96.0	3.39	30	46 - 144
Pyrene	1.000	0.8451	84.5	3.58	30	39 - 158

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0039-R	1102141-02	02/18/11 14:18	1,070.00	1.00
Blank	1B18006-BLK1	02/18/11 14:18	1,000.00	1.00
LCS	1B18006-BS1	02/18/11 14:18	1,000.00	1.00
LCS Dup	1B18006-BSD1	02/18/11 14:18	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B25030 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0036	1102174-05	02/25/11 16:45	1,060.00	1.00
GW0037	1102174-07	02/25/11 16:45	1,070.00	1.00
Blank	1B25030-BLK1	02/25/11 16:45	1,000.00	1.00
LCS	1B25030-BS1	02/25/11 16:45	1,000.00	1.00
LCS Dup	1B25030-BSD1	02/25/11 16:45	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/07/11
Instrument ID:	MS-BNA4	Injection Time:	18:14
Sequence:	1B03911	Lab Sample ID:	1B03911-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.4	PASS
68	Less than 2% of 69	1.6	PASS
69	Less than 200% of 198	48.3	PASS
70	Less than 2% of 69	0.382	PASS
127	40 - 60% of 198	54.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.54	PASS
275	10 - 30% of 198	26.1	PASS
365	1 - 200% of 198	3.76	PASS
441	0.001 - 100% of 443	83.9	PASS
442	40 - 200% of 198	121	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	02/24/11
Instrument ID:	MS-BNA4	Injection Time:	19:52
Sequence:	1B05614	Lab Sample ID:	1B05614-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.4	PASS
68	Less than 2% of 69	1.56	PASS
69	Less than 200% of 198	52.2	PASS
70	Less than 2% of 69	0.539	PASS
127	40 - 60% of 198	56.2	PASS
197	Less than 1% of 198	0.0168	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.82	PASS
275	10 - 30% of 198	27.9	PASS
365	1 - 200% of 198	4.54	PASS
441	0.001 - 100% of 443	84.6	PASS
442	40 - 200% of 198	168	PASS
443	17 - 23% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/25/11
Instrument ID:	MS-BNA4	Injection Time:	12:10
Sequence:	1B05615	Lab Sample ID:	1B05615-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	35.3	PASS
68	Less than 2% of 69	1.59	PASS
69	Less than 200% of 198	36.4	PASS
70	Less than 2% of 69	0.387	PASS
127	40 - 60% of 198	47.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.46	PASS
275	10 - 30% of 198	28.7	PASS
365	1 - 200% of 198	4.48	PASS
441	0.001 - 100% of 443	83.7	PASS
442	40 - 200% of 198	152	PASS
443	17 - 23% of 442	19.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/28/11
Instrument ID:	MS-BNA4	Injection Time:	19:40
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54	PASS
68	Less than 2% of 69	1.39	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.407	PASS
127	40 - 60% of 198	57.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.79	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	81.8	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/01/11
Instrument ID:	MS-BNA4	Injection Time:	12:01
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.6	PASS
68	Less than 2% of 69	1.55	PASS
69	Less than 200% of 198	50.4	PASS
70	Less than 2% of 69	0.486	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	1	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.03	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 200% of 198	3.45	PASS
441	0.001 - 100% of 443	82.1	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/04/11
Instrument ID:	MS-BNA4	Injection Time:	15:11
Sequence:	1C06708	Lab Sample ID:	1C06708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	51.1	PASS
68	Less than 2% of 69	1.61	PASS
69	Less than 200% of 198	50.4	PASS
70	Less than 2% of 69	0.507	PASS
127	40 - 60% of 198	56.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.36	PASS
441	0.001 - 100% of 443	80.4	PASS
442	40 - 200% of 198	99.8	PASS
443	17 - 23% of 442	20.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03911	Instrument:	MS-BNA4
Calibration:	1048001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03911-TUN1	SEQ-TUN1.D	02/07/11 18:14
Cal Standard	1B03911-CAL1	SEQ-CAL1.D	02/07/11 18:33
Cal Standard	1B03911-CAL2	SEQ-CAL2.D	02/07/11 19:06
Cal Standard	1B03911-CAL3	SEQ-CAL3.D	02/07/11 19:39
Cal Standard	1B03911-CAL4	SEQ-CAL4.D	02/07/11 20:12
Cal Standard	1B03911-CAL5	SEQ-CAL5.D	02/07/11 20:45
Cal Standard	1B03911-CAL6	SEQ-CAL6.D	02/07/11 21:18
Cal Standard	1B03911-CAL7	SEQ-CAL7.D	02/07/11 21:51
Cal Standard	1B03911-CAL8	SEQ-CAL8.D	02/07/11 22:24
Cal Standard	1B03911-CAL9	SEQ-CAL9.D	02/07/11 22:57
Cal Standard	1B03911-CALA	SEQ-CALA.D	02/07/11 23:30
Cal Standard	1B03911-CALB	SEQ-CALB.D	02/08/11 00:03
Initial Cal Check	1B03911-ICV3	SEQ-ICV3.D	02/08/11 01:43

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05614	Instrument:	MS-BNA4
Calibration:	1048001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05614-TUN1	SEQ-TUN2.D	02/24/11 19:52
Calibration Check	1B05614-CCV1	SEQ-CCV2.D	02/24/11 20:12
LCS	1B18006-BS1	B18006L1.D	02/24/11 21:55
LCS Dup	1B18006-BSD1	B18006L2.D	02/24/11 22:21
GW0039-R	1102141-02	0214102.D	02/24/11 23:39

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05615	Instrument:	MS-BNA4
Calibration:	1048001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05615-TUN1	SEQ-TUN1.D	02/25/11 12:10
Calibration Check	1B05615-CCV1	SEQ-CCV1.D	02/25/11 12:30
Blank	1B18006-BLK1	B1806B1R.D	02/25/11 13:46

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06115	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06115-TUN1	SEQ-TUN1.D	02/28/11 19:40
Cal Standard	1C06115-CAL1	SEQ-CAL1.D	02/28/11 19:58
Cal Standard	1C06115-CAL2	SEQ-CAL2.D	02/28/11 20:24
Cal Standard	1C06115-CAL3	SEQ-CAL3.D	02/28/11 20:50
Cal Standard	1C06115-CAL4	SEQ-CAL4.D	02/28/11 21:16
Cal Standard	1C06115-CAL5	SEQ-CAL5.D	02/28/11 21:42
Cal Standard	1C06115-CAL6	SEQ-CAL6.D	02/28/11 22:08
Cal Standard	1C06115-CAL7	SEQ-CAL7.D	02/28/11 22:35
Cal Standard	1C06115-CAL8	SEQ-CAL8.D	02/28/11 23:01
MS Tune	1C06115-TUN2	SEQ-TUN1.D	03/01/11 12:01
Initial Cal Check	1C06115-ICV1	SEQ-ICV1.D	03/01/11 12:19

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06708	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06708-TUN1	SEQ-TUN1.D	03/04/11 15:11
Calibration Check	1C06708-CCV1	SEQ-CCV1.D	03/04/11 15:30
Blank	1B25030-BLK1	B25030B1.D	03/04/11 16:44
LCS	1B25030-BS1	B25030L1.D	03/04/11 17:11
LCS Dup	1B25030-BSD1	B25030L2.D	03/04/11 17:38
GW0036	1102174-05	0217405.D	03/04/11 18:05
GW0037	1102174-07	0217407.D	03/04/11 18:33

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05614	Instrument:	MS-BNA4
		Calibration:	1048001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05614-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 02/24/11 20:12			
Phenanthrene-d10	93769	10.48	156632	12.199	60	50 - 200	-1.7190	+/-0.50	
Perylene-d12	80438	15.612	99936	18.353	80	50 - 200	-2.7410	+/-0.50	
LCS (1B18006-BS1)			Lab File ID: B18006L1.D			Analyzed: 02/24/11 21:55			
Phenanthrene-d10	102121	10.48	93769	10.48	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	74204	15.602	80438	15.612	92	50 - 200	-0.0100	+/-0.50	
LCS Dup (1B18006-BSD1)			Lab File ID: B18006L2.D			Analyzed: 02/24/11 22:21			
Phenanthrene-d10	89705	10.48	93769	10.48	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	65362	15.612	80438	15.612	81	50 - 200	0.0000	+/-0.50	
GW0039-R (1102141-02)			Lab File ID: 0214102.D			Analyzed: 02/24/11 23:39			
Phenanthrene-d10	85432	10.48	93769	10.48	91	50 - 200	0.0000	+/-0.50	
Perylene-d12	56251	15.612	80438	15.612	70	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05615	Instrument:	MS-BNA4
		Calibration:	1048001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05615-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/25/11 12:30			
Phenanthrene-d10	136332	10.48	156632	12.199	87	50 - 200	-1.7190	+/-0.50	
Perylene-d12	97406	15.602	99936	18.353	97	50 - 200	-2.7510	+/-0.50	
Blank (1B18006-BLK1)			Lab File ID: B1806B1R.D			Analyzed: 02/25/11 13:46			
Phenanthrene-d10	121241	10.48	136332	10.48	89	50 - 200	0.0000	+/-0.50	
Perylene-d12	75675	15.602	97406	15.602	78	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06708	Instrument:	MS-BNA4
		Calibration:	1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06708-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/04/11 15:30			
Phenanthrene-d10	146161	11.394	106904	11.432	137	50 - 200	-0.0380	+/-0.50	
Perylene-d12	95935	16.498	80420	16.536	119	50 - 200	-0.0380	+/-0.50	
Blank (1B25030-BLK1)			Lab File ID: B25030B1.D			Analyzed: 03/04/11 16:44			
Phenanthrene-d10	150495	11.395	146161	11.394	103	50 - 200	0.0010	+/-0.50	
Perylene-d12	85802	16.498	95935	16.498	89	50 - 200	0.0000	+/-0.50	
LCS (1B25030-BS1)			Lab File ID: B25030L1.D			Analyzed: 03/04/11 17:11			
Phenanthrene-d10	148469	11.394	146161	11.394	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	52488	16.498	95935	16.498	55	50 - 200	0.0000	+/-0.50	
LCS Dup (1B25030-BSD1)			Lab File ID: B25030L2.D			Analyzed: 03/04/11 17:38			
Phenanthrene-d10	135413	11.395	146161	11.394	93	50 - 200	0.0010	+/-0.50	
Perylene-d12	55205	16.498	95935	16.498	58	50 - 200	0.0000	+/-0.50	
GW0036 (1102174-05)			Lab File ID: 0217405.D			Analyzed: 03/04/11 18:05			
Phenanthrene-d10	152941	11.395	146161	11.394	105	50 - 200	0.0010	+/-0.50	
Perylene-d12	80118	16.498	95935	16.498	84	50 - 200	0.0000	+/-0.50	
GW0037 (1102174-07)			Lab File ID: 0217407.D			Analyzed: 03/04/11 18:33			
Phenanthrene-d10	163734	11.395	146161	11.394	112	50 - 200	0.0010	+/-0.50	
Perylene-d12	83557	16.498	95935	16.498	87	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1048001	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/7/2011 6:33:21PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.05	0.7687549	0.1	0.7794806	0.25	0.7766594	0.5	0.7998819	1	0.8071786	2	0.7640138
Acenaphthylene	0.05	1.136151	0.1	1.152763	0.25	1.161768	0.5	1.232618	1	1.205188	2	1.124647
Anthracene	0.05	1.1272	0.1	1.090745	0.25	1.069653	0.5	1.101154	1	1.133319	2	1.038877
Benzo(a)anthracene	0.05	0.7748101	0.1	0.6248166	0.25	0.6014083	0.5	0.6444341	1	0.7394402	2	0.6717666
Benzo(a)pyrene	0.05	0.926754	0.1	0.8906985	0.25	0.9382025	0.5	0.9466959	1	0.995267	2	0.9239176
Benzo(b)fluoranthene	0.05	1.071226	0.1	0.8732557	0.25	0.9560665	0.5	1.032767	1	1.095081	2	1.064222
Benzo(g,h,i)perylene	0.05	0.8246691	0.1	0.7337133	0.25	0.6937903	0.5	0.7818547	1	0.8054755	2	0.7348593
Benzo(k)fluoranthene	0.05	1.308907	0.1	1.125365	0.25	1.287534	0.5	1.384538	1	1.220601	2	1.205992
Chrysene	0.05	0.8303606	0.1	0.7906286	0.25	0.7466236	0.5	0.7549162	1	0.80172	2	0.6973931
Dibenz(a,h)anthracene	0.05	0.6788651	0.1	0.6630294	0.25	0.6084448	0.5	0.6697015	1	0.6919328	2	0.6498355
Fluoranthene	0.05	1.062303	0.1	1.022742	0.25	0.9407826	0.5	0.9756467	1	1.023028	2	0.9696554
Fluorene	0.05	0.6468598	0.1	0.744159	0.25	0.732102	0.5	0.8194482	1	0.8230055	2	0.7665987
2-Fluorobiphenyl	0.05	0.7287375	0.1	0.8186747	0.25	0.8743161	0.5	0.8858138	1	0.9209548	2	0.8523206
Indeno(1,2,3-cd)pyrene	0.05	0.915214	0.1	0.7778274	0.25	0.8272576	0.5	0.8718282	1	0.8883886	2	0.8420033
1-Methylnaphthalene	0.05	0.9556781	0.1	0.8689581	0.25	0.7951518	0.5	0.8449829	1	0.8159955	2	0.8012708
2-Methylnaphthalene	0.05	0.6747667	0.1	0.7228018	0.25	0.799192	0.5	0.7940243	1	0.8082065	2	0.7386292
Naphthalene	0.05	1.246462	0.1	1.141791	0.25	1.24368	0.5	1.278543	1	1.305538	2	1.243128
Phenanthrene	0.05	1.04914	0.1	1.006196	0.25	1.019947	0.5	1.040929	1	1.087064	2	0.9834352
Pyrene	0.05	1.010965	0.1	1.007663	0.25	0.9867021	0.5	1.018902	1	1.066506	2	0.9655344
Terphenyl-d14	0.05	0.5859123	0.1	0.578171	0.25	0.5713263	0.5	0.5883808	1	0.642174	2	0.5892298
2,4,6-Tribromophenol	0.1	5.462898E-02	0.2	7.580647E-02	0.5	9.489784E-02	1	0.1089439	2	0.1307076	4	0.1248782

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1048001	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/7/2011 6:33:21PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	0.7377252	10	0.7830595	20	0.8276625	40	0.7771579	50	0.8980751		
Acenaphthylene	5	1.1949	10	1.219168	20	1.263119	40	1.160777	50	1.333199		
Anthracene	5	1.095892	10	1.056848	20	1.087627	40	1.063203	50	1.07132		
Benzo(a)anthracene	5	0.7405289	10	0.6744947	20	0.6091123	40	0.6920424	50	0.6670891		
Benzo(a)pyrene	5	1.028292	10	1.056758	20	1.04443	40	1.034508	50	1.080564		
Benzo(b)fluoranthene	5	1.137275	10	1.155306	20	1.155705	40	1.220756	50	1.260372		
Benzo(g,h,i)perylene	5	0.8921536	10	0.9181814	20	0.9170102	40	0.9395668	50	0.8943174		
Benzo(k)fluoranthene	5	1.184552	10	1.272388	20	1.18664	40	1.139649	50	1.204391		
Chrysene	5	0.7345836	10	0.6767857	20	0.6198731	40	0.6466793	50	0.6351785		
Dibenz(a,h)anthracene	5	0.8485192	10	0.8803464	20	0.9008122	40	0.9424926	50	0.9102547		
Fluoranthene	5	1.026152	10	1.01825	20	0.9539957	40	0.9411422	50	0.9189415		
Fluorene	5	0.7670745	10	0.7937771	20	0.8454238	40	0.7848189	50	0.8589597		
2-Fluorobiphenyl	5	0.8783049	10	0.8994623	20	0.9503178	40	0.8884214	50	1.041237		
Indeno(1,2,3-cd)pyrene	5	1.069882	10	1.082264	20	1.109182	40	1.150069	50	1.104343		
1-Methylnaphthalene	5	0.8038967	10	0.8209737	20	0.8807318	40	0.7756046	50	0.9087576		
2-Methylnaphthalene	5	0.773088	10	0.8093608	20	0.8402791	40	0.7578547	50	0.8709262		
Naphthalene	5	1.290397	10	1.315019	20	1.418772	40	1.207416	50	1.387788		
Phenanthrene	5	1.049277	10	1.053486	20	1.072179	40	1.054583	50	1.073802		
Pyrene	5	1.015789	10	1.013387	20	0.9541999	40	0.9927119	50	0.9540703		
Terphenyl-d14	5	0.642525	10	0.6168882	20	0.5844269	40	0.5950906	50	0.5742964		
2,4,6-Tribromophenol	10	0.1450625	20	0.1545971	40	0.1608854	80	0.1619007	100	0.1720573		

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1048001	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/7/2011 6:33:21PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.7926954	5.318234	10.39527	5.971224E-02			CCC (30)	
Acenaphthylene	1.198573	5.154891	10.18691	4.731456E-02			15	
Anthracene	1.085076	2.663468	12.29609	3.862814E-02			15	
Benzo(a)anthracene	0.6763585	8.358676	15.60309	2.142343E-02			15	
Benzo(a)pyrene	0.9878261	6.547324	18.24164	5.668756E-02			CCC (30)	
Benzo(b)fluoranthene	1.092912	10.27405	17.56236	5.894665E-02			15	
Benzo(g,h,i)perylene	0.8305083	10.43963	21.38382	7.386433E-02			15	
Benzo(k)fluoranthene	1.229142	6.280104	17.61618	6.153129E-02			15	
Chrysene	0.7213402	9.894529	15.663	4.825978E-02			15	
Dibenz(a,h)anthracene	0.7676577	16.54231	20.81327	7.143003E-02	0.9994472		0.995	
Fluoranthene	0.9866036	4.66066	13.70827	3.573892E-02			CCC (30)	
Fluorene	0.7802025	7.667299	11.03864	6.130489E-02			15	
2-Fluorobiphenyl	0.8853237	8.766314	9.524182	0.1068576			15	
Indeno(1,2,3-cd)pyrene	0.9671145	14.07617	20.77682	7.155087E-02			15	
1-Methylnaphthalene	0.8429092	6.545285	9.193818	9.234948E-02			15	
2-Methylnaphthalene	0.7808299	7.097333	9.071273	0.1155369			15	
Naphthalene	1.279867	6.104298	8.222455	7.228635E-02			15	
Phenanthrene	1.044549	2.946851	12.23027	5.301422E-02			15	
Pyrene	0.9987664	3.320125	13.98973	3.049288E-02			15	
Terphenyl-d14	0.5971292	4.255474	14.17245	0.0236856			15	
2,4,6-Tribromophenol	0.1258515	30.46799	11.34973	5.292164E-02	0.9985944		0.995	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1061004	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/28/2011 7:58:20PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.2	0.8535207	0.5	0.873421	1	0.9064357	5	0.8395738	10	0.784535	20	0.8168652
Acenaphthylene	0.2	1.382044	0.5	1.218477	1	1.435272	5	1.311268	10	1.208637	20	1.217291
Anthracene	0.2	1.058534	0.5	1.093939	1	1.125915	5	1.133941	10	1.170225	20	1.132615
Benzo(a)anthracene	0.2	0.6476147	0.5	0.7623581	1	0.8156699	5	0.8984042	10	1.054533	20	0.8423353
Benzo(a)pyrene	0.2	1.02565	0.5	1.014554	1	1.005352	5	1.046623	10	1.13987	20	1.083464
Benzo(b)fluoranthene	0.2	1.352174	0.5	1.123357	1	1.241503	5	1.234178	10	1.470413	20	1.430442
Benzo(g,h,i)perylene	0.2	1.25079	0.5	0.9738602	1	0.9538002	5	0.8937802	10	0.8523731	20	0.9100527
Benzo(k)fluoranthene	0.2	1.25079	0.5	1.187413	1	1.228864	5	1.399423	10	1.350928	20	1.327367
Chrysene	0.2	0.7374538	0.5	0.8493865	1	0.842695	5	0.9126712	10	1.060452	20	0.7892754
Dibenz(a,h)anthracene	0.2	0.9186101	0.5	0.772847	1	0.7332764	5	0.807053	10	0.8074299	20	0.8601228
Fluoranthene	0.2	1.051742	0.5	1.162418	1	1.179913	5	1.225501	10	1.272376	20	1.210129
Fluorene	0.2	0.7020536	0.5	0.7674959	1	0.8242432	5	0.8055957	10	0.8027371	20	0.8141917
2-Fluorobiphenyl	0.2	0.9678027	0.5	0.9267382	1	0.971158	5	0.9172978	10	0.8347461	20	0.8721172
Indeno(1,2,3-cd)pyrene	0.2	1.19648	0.5	1.0475	1	1.041161	5	1.035051	10	1.034813	20	1.078813
1-Methylnaphthalene	0.2	1.063294	0.5	0.9409067	1	0.9548364	5	0.8620632	10	0.8000648	20	0.8432121
2-Methylnaphthalene	0.2	1.091703	0.5	0.9503314	1	0.953009	5	0.8485033	10	0.790738	20	0.8347751
Naphthalene	0.2	1.685474	0.5	1.472423	1	1.51616	5	1.341546	10	1.240043	20	1.318205
Phenanthrene	0.2	1.134937	0.5	1.1581	1	1.184863	5	1.175284	10	1.202262	20	1.17303
Pyrene	0.2	1.092794	0.5	1.147446	1	1.174827	5	1.234693	10	1.289576	20	1.223257
Terphenyl-d14	0.2	0.6118179	0.5	0.7063144	1	0.7228992	5	0.7705175	10	0.8117648	20	0.7422102
2,4,6-Tribromophenol	0.4	~~6.326415E-02~~	1	~~8.579129E-02~~	2	~~0.1089983~~	10	0.1584169	20	0.1656128	40	0.175367
1,4-Dichlorobenzene-d4	1		1		1		1		1		1	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1061004	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/28/2011 7:58:20PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	40	0.7820316	50	0.7652934								
Acenaphthylene	40	1.094458	50	1.018169								
Anthracene	40	1.152126	50	1.196303								
Benzo(a)anthracene	40	1.003107	50	0.9291589								
Benzo(a)pyrene	40	1.080537	50	1.058466								
Benzo(b)fluoranthene	40	1.335067	50	1.516975								
Benzo(g,h,i)perylene	40	0.9253269	50	0.8257036								
Benzo(k)fluoranthene	40	1.386509	50	1.229503								
Chrysene	40	0.9474654	50	0.8935192								
Dibenz(a,h)anthracene	40	0.8924079	50	0.7981977								
Fluoranthene	40	1.255338	50	1.219358								
Fluorene	40	0.7859858	50	0.8053954								
2-Fluorobiphenyl	40	0.8111573	50	0.8142831								
Indeno(1,2,3-cd)pyrene	40	1.109845	50	0.9998711								
1-Methylnaphthalene	40	0.7771338	50	0.7467535								
2-Methylnaphthalene	40	0.7827356	50	0.7506397								
Naphthalene	40	1.179985	50	1.155622								
Phenanthrene	40	1.176864	50	1.189216								
Pyrene	40	1.276995	50	1.213951								
Terphenyl-d14	40	0.8018532	50	0.7661409								
2,4,6-Tribromophenol	80	0.1735388	100	0.164136								
1,4-Dichlorobenzene-d4	1		1									

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1061004	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/28/2011 7:58:20PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8277096	5.964029	9.633875	8.915397E-02			CCC (30)	
Acenaphthylene	1.235702	11.26304	9.425	6.665902E-02			15	
Anthracene	1.13295	3.786272	11.52837	6.266625E-02			15	
Benzo(a)anthracene	0.8691476	15.11626	14.71213	5.462316E-02	0.9952477		0.995	
Benzo(a)pyrene	1.056815	4.183578	16.4705	5.396188E-02			CCC (30)	
Benzo(b)fluoranthene	1.338014	9.966544	16.07662	5.173099E-02			15	
Benzo(g,h,i)perylene	0.9482109	13.88728	18.45625	7.723512E-02			15	
Benzo(k)fluoranthene	1.2951	6.235241	16.108	5.845528E-02			15	
Chrysene	0.8791148	11.31297	14.76	4.591394E-02			15	
Dibenz(a,h)anthracene	0.8237431	7.540873	18.024	5.675539E-02			15	
Fluoranthene	1.197097	5.749219	12.9345	5.235663E-02			CCC (30)	
Fluorene	0.7884623	4.944379	10.27338	6.435991E-02			15	
2-Fluorobiphenyl	0.8894126	7.367129	8.767375	5.071162E-02			15	
Indeno(1,2,3-cd)pyrene	1.067942	5.744412	18.02163	5.897508E-02			15	
1-Methylnaphthalene	0.8735331	12.15937	8.4405	5.284201E-02			15	
2-Methylnaphthalene	0.8753044	13.10583	8.321125	5.827663E-02			15	
Naphthalene	1.363682	13.39317	7.482125	3.967633E-02			15	
Phenanthrene	1.17432	1.744274	11.461	5.511778E-02			15	
Pyrene	1.206692	5.463181	13.21437	5.315315E-02			15	
Terphenyl-d14	0.7416898	8.59253	13.40512	3.369558E-02			15	
2,4,6-Tribromophenol	0.1674143	4.178063	10.5764	9.131494E-02			15	
1,4-Dichlorobenzene-d4							15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1048001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	02/07/11 18:33
Sequence:	1B03911	Injection Date:	02/08/11
Lab Sample ID:	1B03911-ICV3	Injection Time:	01:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.043	0.7926954	0.7995186		0.9	20
Acenaphthylene	A	5.000	4.931	1.198573	1.182003		-1.4	20
Anthracene	A	5.000	4.980	1.085076	1.080634		-0.4	20
Benzo(a)anthracene	A	5.000	5.070	0.6763585	0.6858315		1.4	20
Benzo(a)pyrene	A	5.000	5.149	0.9878261	1.017329		3.0	20
Benzo(b)fluoranthene	A	5.000	5.268	1.092912	1.151497		5.4	20
Benzo(g,h,i)perylene	A	5.000	5.258	0.8305083	0.8733713		5.2	20
Benzo(k)fluoranthene	A	5.000	5.144	1.229142	1.264612		2.9	20
Chrysene	A	5.000	4.973	0.7213402	0.7174082		-0.5	20
Dibenz(a,h)anthracene	L	5.000	4.922	0.7676577	0.799063		-1.6	20
Fluoranthene	A	5.000	5.223	0.9866036	1.030623		4.5	20
Fluorene	A	5.000	5.079	0.7802025	0.7926011		1.6	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.202	0.9671145	1.006173		4.0	20
1-Methylnaphthalene	A	5.000	4.700	0.8429092	0.7924099		-6.0	20
2-Methylnaphthalene	A	5.000	5.839	0.7808299	0.9118984		16.8	20
Naphthalene	A	5.000	5.195	1.279867	1.329684		3.9	20
Phenanthrene	A	5.000	5.000	1.044549	1.044453		-0.009	20
Pyrene	A	5.000	5.175	0.9987664	1.033722		3.5	20
2-Fluorobiphenyl	A	5.000	4.983	0.8853237	0.8823667		-0.3	20
Terphenyl-d14	A	5.000	5.238	0.5971292	0.6255041		4.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06115	Injection Date:	03/01/11
Lab Sample ID:	1C06115-ICV1	Injection Time:	12:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.234	0.8277096	0.8665216		4.7	20
Acenaphthylene	A	5.000	5.787	1.235702	1.430186		15.7	20
Anthracene	A	5.000	5.426	1.13295	1.229415		8.5	20
Benzo(a)anthracene	L	5.000	4.970	0.8691476	0.9136814		-0.6	20
Benzo(a)pyrene	A	5.000	5.399	1.056815	1.141205		8.0	20
Benzo(b)fluoranthene	A	5.000	4.866	1.338014	1.302123		-2.7	20
Benzo(g,h,i)perylene	A	5.000	4.830	0.9482109	0.9159273		-3.4	20
Benzo(k)fluoranthene	A	5.000	5.796	1.2951	1.501354		15.9	20
Chrysene	A	5.000	5.406	0.8791148	0.9505258		8.1	20
Dibenz(a,h)anthracene	A	5.000	4.789	0.8237431	0.7889492		-4.2	20
Fluoranthene	A	5.000	5.284	1.197097	1.265188		5.7	20
Fluorene	A	5.000	5.335	0.7884623	0.8413243		6.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.885	1.067942	1.043478		-2.3	20
1-Methylnaphthalene	A	5.000	5.030	0.8735331	0.8786867		0.6	20
2-Methylnaphthalene	A	5.000	5.052	0.8753044	0.88448		1.0	20
Naphthalene	A	5.000	5.217	1.363682	1.422778		4.3	20
Phenanthrene	A	5.000	5.384	1.17432	1.264507		7.7	20
Pyrene	A	5.000	5.486	1.206692	1.324032		9.7	20
2-Fluorobiphenyl	A	5.000	5.477	0.8894126	0.974327		9.5	20
Terphenyl-d14	A	5.000	5.816	0.7416898	0.8626973		16.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1048001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	02/07/11 18:33
Sequence:	1B05614	Injection Date:	02/24/11
Lab Sample ID:	1B05614-CCV1	Injection Time:	20:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.834	0.7926954	0.7663663		-3.3	20
Acenaphthylene	A	5.000	4.952	1.198573	1.187055		-1.0	20
Anthracene	A	5.000	4.917	1.085076	1.067063		-1.7	20
Benzo(a)anthracene	A	5.000	6.683	0.6763585	0.9040301		33.7	20 *
Benzo(a)pyrene	A	5.000	4.969	0.9878261	0.9817972		-0.6	20
Benzo(b)fluoranthene	A	5.000	5.108	1.092912	1.116442		2.2	20
Benzo(g,h,i)perylene	A	5.000	5.740	0.8305083	0.9534946		14.8	20
Benzo(k)fluoranthene	A	5.000	4.839	1.229142	1.189567		-3.2	20
Chrysene	A	5.000	6.235	0.7213402	0.8995062		24.7	20 *
Dibenz(a,h)anthracene	L	5.000	4.860	0.7676577	0.8545314		-2.8	20
Fluoranthene	A	5.000	5.631	0.9866036	1.111052		12.6	20
Fluorene	A	5.000	4.812	0.7802025	0.750826		-3.8	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.705	0.9671145	1.103409		14.1	20
1-Methylnaphthalene	A	5.000	4.769	0.8429092	0.8039373		-4.6	20
2-Methylnaphthalene	A	5.000	5.244	0.7808299	0.8188591		4.9	20
Naphthalene	A	5.000	4.865	1.279867	1.245303		-2.7	20
Phenanthrene	A	5.000	5.364	1.044549	1.120628		7.3	20
Pyrene	A	5.000	5.946	0.9987664	1.187832		18.9	20
2-Fluorobiphenyl	A	5.000	4.880	0.8853237	0.8641705		-2.4	20
Terphenyl-d14	A	5.000	6.260	0.5971292	0.7476735		25.2	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1048001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/07/11 18:33
Sequence:	1B05615	Injection Date:	02/25/11
Lab Sample ID:	1B05615-CCV1	Injection Time:	12:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.733	0.7926954	0.7503638		-5.3	20
Acenaphthylene	A	5.000	4.734	1.198573	1.134888		-5.3	20
Anthracene	A	5.000	4.938	1.085076	1.07158		-1.2	20
Benzo(a)anthracene	A	5.000	6.397	0.6763585	0.8653566		27.9	20 *
Benzo(a)pyrene	A	5.000	4.801	0.9878261	0.9485637		-4.0	20
Benzo(b)fluoranthene	A	5.000	5.559	1.092912	1.215184		11.2	20
Benzo(g,h,i)perylene	A	5.000	4.233	0.8305083	0.7031456		-15.3	20
Benzo(k)fluoranthene	A	5.000	4.693	1.229142	1.153781		-6.1	20
Chrysene	A	5.000	6.020	0.7213402	0.8685723		20.4	20 *
Dibenz(a,h)anthracene	L	5.000	4.150	0.7676577	0.7229411		-17.0	20
Fluoranthene	A	5.000	5.616	0.9866036	1.108111		12.3	20
Fluorene	A	5.000	4.919	0.7802025	0.7676232		-1.6	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.588	0.9671145	0.8873478		-8.2	20
1-Methylnaphthalene	A	5.000	4.547	0.8429092	0.7665757		-9.1	20
2-Methylnaphthalene	A	5.000	5.089	0.7808299	0.7947965		1.8	20
Naphthalene	A	5.000	4.657	1.279867	1.192009		-6.9	20
Phenanthrene	A	5.000	5.350	1.044549	1.117736		7.0	20
Pyrene	A	5.000	5.852	0.9987664	1.169055		17.0	20
2-Fluorobiphenyl	A	5.000	4.869	0.8853237	0.8621277		-2.6	20
Terphenyl-d14	A	5.000	6.305	0.5971292	0.752956		26.1	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06708	Injection Date:	03/04/11
Lab Sample ID:	1C06708-CCV1	Injection Time:	15:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.168	0.8277096	0.8554525		3.4	20
Acenaphthylene	A	5.000	5.496	1.235702	1.35838		9.9	20
Anthracene	A	5.000	5.522	1.13295	1.251352		10.5	20
Benzo(a)anthracene	L	5.000	4.900	0.8691476	0.9002278		-2.0	20
Benzo(a)pyrene	A	5.000	5.348	1.056815	1.130493		7.0	20
Benzo(b)fluoranthene	A	5.000	5.044	1.338014	1.349901		0.9	20
Benzo(g,h,i)perylene	A	5.000	4.522	0.9482109	0.8576182		-9.6	20
Benzo(k)fluoranthene	A	5.000	5.068	1.2951	1.312837		1.4	20
Chrysene	A	5.000	5.045	0.8791148	0.8870506		0.9	20
Dibenz(a,h)anthracene	A	5.000	4.997	0.8237431	0.823197		-0.07	20
Fluoranthene	A	5.000	5.246	1.197097	1.256089		4.9	20
Fluorene	A	5.000	5.574	0.7884623	0.8789787		11.5	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.776	1.067942	1.020191		-4.5	20
1-Methylnaphthalene	A	5.000	4.759	0.8735331	0.831505		-4.8	20
2-Methylnaphthalene	A	5.000	5.071	0.8753044	0.8877361		1.4	20
Naphthalene	A	5.000	4.964	1.363682	1.35394		-0.7	20
Phenanthrene	A	5.000	5.426	1.17432	1.27438		8.5	20
Pyrene	A	5.000	5.291	1.206692	1.276923		5.8	20
2-Fluorobiphenyl	A	5.000	5.510	0.8894126	0.980111		10.2	20
Terphenyl-d14	A	5.000	5.542	0.7416898	0.8220606		10.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B18006-BLK1
File ID: B1806B1R.D
Sampled:
Prepared:
Analyzed: 02/25/11 13:46
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B18006
Sequence: 1B05615
Calibration: 1048001
Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	X, U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	X, U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene	0.0749	0.0500	0.100	0.200	J
91-57-6	2-Methylnaphthalene	0.259	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.184	0.0500	0.100	0.200	J
85-01-8	Phenanthrene		0.0500	0.100	0.200	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.11	72.2	34 - 167	
Terphenyl-d14	50.00	51.90	104	34 - 167	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18006-BS1 File ID: B18006L1.D

Sampled: Prepared: Analyzed: 02/24/11 21:55

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18006 Sequence: 1B05614 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.9122	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.8374	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8838	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	1.119	0.0500	0.100	0.200	X
50-32-8	Benzo(a)pyrene	0.8489	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9064	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.9120	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.9773	0.0500	0.100	0.200	
218-01-9	Chrysene	1.078	0.0500	0.100	0.200	X
53-70-3	Dibenz(a,h)anthracene	0.8882	0.0500	0.100	0.200	
206-44-0	Fluoranthene	1.050	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9115	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.8974	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8869	0.0500	0.100	0.200	B
91-57-6	2-Methylnaphthalene	1.045	0.0500	0.100	0.200	B
91-20-3	Naphthalene	1.002	0.0500	0.100	0.200	B
85-01-8	Phenanthrene	1.041	0.0500	0.100	0.200	
129-00-0	Pyrene	1.035	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.69	83.4	34 - 167	
Terphenyl-d14	50.00	50.08	100	34 - 167	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18006-BSD1 File ID: B18006L2.D

Sampled: Prepared: Analyzed: 02/24/11 22:21

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18006 Sequence: 1B05614 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.8441	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7977	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8945	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	1.131	0.0500	0.100	0.200	X
50-32-8	Benzo(a)pyrene	0.8421	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	1.050	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	1.005	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8906	0.0500	0.100	0.200	
218-01-9	Chrysene	1.099	0.0500	0.100	0.200	X
53-70-3	Dibenz(a,h)anthracene	0.9436	0.0500	0.100	0.200	
206-44-0	Fluoranthene	1.070	0.0500	0.100	0.200	
86-73-7	Fluorene	0.8944	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.9413	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.9108	0.0500	0.100	0.200	B
91-57-6	2-Methylnaphthalene	1.150	0.0500	0.100	0.200	B
91-20-3	Naphthalene	0.9660	0.0500	0.100	0.200	B
85-01-8	Phenanthrene	0.9910	0.0500	0.100	0.200	
129-00-0	Pyrene	1.084	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.01	78.0	34 - 167	
Terphenyl-d14	50.00	46.40	92.8	34 - 167	X

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B25030-BLK1
File ID: B25030B1.D
Sampled:
Prepared:
Analyzed: 03/04/11 16:44
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B25030
Sequence: 1C06708
Calibration: 1061004
Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
85-01-8	Phenanthrene		0.0500	0.100	0.200	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.59	69.2	34 - 167	
Terphenyl-d14	50.00	36.16	72.3	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B25030-BS1 File ID: B25030L1.D

Sampled: Prepared: Analyzed: 03/04/11 17:11

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.8548	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7945	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8476	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.7752	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7554	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9921	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.6155	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.9030	0.0500	0.100	0.200	
218-01-9	Chrysene	0.6098	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.5772	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.7962	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9264	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.6239	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8344	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8326	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.8187	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.9281	0.0500	0.100	0.200	
129-00-0	Pyrene	0.8154	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.28	76.6	34 - 167	
Terphenyl-d14	50.00	32.10	64.2	34 - 167	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B25030-BSD1 File ID: B25030L2.D

Sampled: Prepared: Analyzed: 03/04/11 17:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.9350	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.8751	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8830	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.8256	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7692	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9170	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.6915	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8738	0.0500	0.100	0.200	
218-01-9	Chrysene	0.6620	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.5781	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.8464	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9739	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.6096	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.9346	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8892	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.9016	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.9601	0.0500	0.100	0.200	
129-00-0	Pyrene	0.8451	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.27	86.5	34 - 167	
Terphenyl-d14	50.00	32.95	65.9	34 - 167	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0039-R	02/15/11 10:30	02/16/11 08:30	02/18/11 14:18	3.16	7.00	02/24/11 23:39	6.39	40.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/25/11 16:45	8.23	7.00	03/04/11 18:05	7.06	40.00	*
GW0037	02/17/11 10:50	02/18/11 08:45	02/25/11 16:45	8.20	7.00	03/04/11 18:33	7.07	40.00	*

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04818	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04818-CCV1	003F0301.D	02/16/11 16:44
Blank	1B15017-BLK1	004F0401.D	02/16/11 17:19
LCS	1B15017-BS1	005F0501.D	02/16/11 17:54
LCS Dup	1B15017-BSD1	006F0601.D	02/16/11 18:29
GW0019	1102135-01	008F0801.D	02/16/11 19:38
GW0020	1102135-03	009F0901.D	02/16/11 20:13
GW0021	1102135-05	010F1001.D	02/16/11 20:48
GW0022	1102141-01	011F1101.D	02/16/11 21:22
GW8002-RB	1102141-04	012F1201.D	02/16/11 21:57
Calibration Check	1B04818-CCV2	013F1301.D	02/16/11 22:33

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05519	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05519-CCV1	003F0301.D	02/23/11 13:24
Blank	1B22015-BLK1	008F0801.D	02/23/11 16:16
LCS	1B22015-BS1	009F0901.D	02/23/11 16:51
LCS Dup	1B22015-BSD1	010F1001.D	02/23/11 17:25
GW0011	1102166-01	011F1101.D	02/23/11 17:59
GW0011	1B22015-MS1	012F1201.D	02/23/11 18:33
GW0011	1B22015-MSD1	013F1301.D	02/23/11 19:08
GW0031	1102166-03	015F1501.D	02/23/11 20:17
GW0010	1102174-01	016F1601.D	02/23/11 20:51
GW0015	1102174-03	017F1701.D	02/23/11 21:26
GW0036	1102174-05	018F1801.D	02/23/11 22:00
GW0037	1102174-07	019F1901.D	02/23/11 22:35
GW0038	1102174-09	020F2001.D	02/23/11 23:11
Calibration Check	1B05519-CCV2	021F2101.D	02/23/11 23:47

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05605	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05605-CCV1	003F0301.D	02/24/11 11:36
Blank	1B24005-BLK1	004F0401.D	02/24/11 12:10
LCS	1B24005-BS1	005F0501.D	02/24/11 12:45
LCS Dup	1B24005-BSD1	006F0601.D	02/24/11 13:19
GW0009	1102179-01	007F0701.D	02/24/11 13:54
Calibration Check	1B05605-CCV2	008F0801.D	02/24/11 14:28

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01	File ID:	008F0801.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 19:38
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B15017 Sequence: 1B04818 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.02	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05616	112	50 - 150	

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	009F0901.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 20:13
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B15017 Sequence: 1B04818 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.03	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05637	113	50 - 150	

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	010F1001.D
Sampled:	02/14/11 11:17	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 20:48
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B15017 Sequence: 1B04818 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0845	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05422	108	50 - 150	

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	011F1101.D
Sampled:	02/15/11 13:59	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 21:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B15017 Sequence: 1B04818 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0642	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05383	108	50 - 150	

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04	File ID:	012F1201.D
Sampled:	02/15/11 14:50	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 21:57
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B15017 Sequence: 1B04818 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05286	106	50 - 150	

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	011F1101.D
Sampled:	02/16/11 10:45	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 17:59
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	34.8	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05783	116	50 - 150	

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	015F1501.D
Sampled:	02/16/11 15:05	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 20:17
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	4.12	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06566	131	50 - 150	

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	016F1601.D
Sampled:	02/17/11 14:56	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 20:51
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	38.3	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05798	116	50 - 150	

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	017F1701.D
Sampled:	02/17/11 11:10	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 21:26
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	22.7	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05678	114	50 - 150	

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	018F1801.D
Sampled:	02/17/11 10:18	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 22:00
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05138	103	50 - 150	

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	019F1901.D
Sampled:	02/17/11 10:50	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 22:35
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05227	105	50 - 150	

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	020F2001.D
Sampled:	02/17/11 10:50	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 23:11
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05027	101	50 - 150	

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	007F0701.D
Sampled:	02/18/11 13:06	Prepared:	02/24/11 09:48	Analyzed:	02/24/11 13:54
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 1B24005 Sequence: 1B05605 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	21.1	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06281	126	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15017	Laboratory ID:	1B15017-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5778	116	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.6173	123	6.61	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22015	Laboratory ID:	1B22015-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5479	110	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5863	117	6.78	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24005	Laboratory ID:	1B24005-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5498	110	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5995	120	8.65	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22015

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	34.83	27.07	-1550	*	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	28.46	-1280	5.00	*	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15017 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/16/11 14:46	5.00	5.00
GW0020	1102135-03	02/16/11 14:46	5.00	5.00
GW0021	1102135-05	02/16/11 14:46	5.00	5.00
GW0022	1102141-01	02/16/11 14:46	5.00	5.00
GW8002-RB	1102141-04	02/16/11 14:46	5.00	5.00
Blank	1B15017-BLK1	02/16/11 14:46	5.00	5.00
LCS	1B15017-BS1	02/16/11 14:46	5.00	5.00
LCS Dup	1B15017-BSD1	02/16/11 14:46	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22015 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/23/11 11:38	5.00	5.00
GW0031	1102166-03	02/23/11 11:38	5.00	5.00
GW0010	1102174-01	02/23/11 11:38	5.00	5.00
GW0015	1102174-03	02/23/11 11:38	5.00	5.00
GW0036	1102174-05	02/23/11 11:38	5.00	5.00
GW0037	1102174-07	02/23/11 11:38	5.00	5.00
GW0038	1102174-09	02/23/11 11:38	5.00	5.00
Blank	1B22015-BLK1	02/23/11 11:38	5.00	5.00
LCS	1B22015-BS1	02/23/11 11:38	5.00	5.00
LCS Dup	1B22015-BSD1	02/23/11 11:38	5.00	5.00
GW0011	1B22015-MS1	02/23/11 11:38	5.00	5.00
GW0011	1B22015-MSD1	02/23/11 11:38	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24005 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	02/24/11 09:48	5.00	5.00
Blank	1B24005-BLK1	02/24/11 09:48	5.00	5.00
LCS	1B24005-BS1	02/24/11 09:48	5.00	5.00
LCS Dup	1B24005-BSD1	02/24/11 09:48	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04818	Injection Date:	02/16/11
Lab Sample ID:	1B04818-CCV1	Injection Time:	16:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5438	2904701	3159356		8.8	20
Bromofluorobenzene	A	0.05000	0.05742	1657682	1903720		14.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	013F1301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04818	Injection Date:	02/16/11
Lab Sample ID:	1B04818-CCV2	Injection Time:	22:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5516	2904701	3204674		10.3	20
Bromofluorobenzene	A	0.05000	0.05578	1657682	1849160		11.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/23/11
Lab Sample ID:	1B05519-CCV1	Injection Time:	13:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5309	2904701	3084116		6.2	20
Bromofluorobenzene	A	0.05000	0.05622	1657682	1863880		12.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	021F2101.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/23/11
Lab Sample ID:	1B05519-CCV2	Injection Time:	23:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4882	2904701	2835900		-2.4	20
Bromofluorobenzene	A	0.05000	0.05275	1657682	1748800		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05605	Injection Date:	02/24/11
Lab Sample ID:	1B05605-CCV1	Injection Time:	11:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5264	2904701	3058086		5.3	20
Bromofluorobenzene	A	0.05000	0.05625	1657682	1864840		12.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	008F0801.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05605	Injection Date:	02/24/11
Lab Sample ID:	1B05605-CCV2	Injection Time:	14:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5715	2904701	3320212		14.3	20
Bromofluorobenzene	A	0.05000	0.05708	1657682	1892300		14.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04818	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04818-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/16/11 16:44		
Bromofluorobenzene	0.05000	115	80 - 120	19.556	19.556	0.0000	+/-0.210	
Blank (1B15017-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/16/11 17:19		
Bromofluorobenzene	0.05000	111	50 - 150	19.556	19.556	0.0000	+/-0.210	
LCS (1B15017-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/16/11 17:54		
Bromofluorobenzene	0.05000	115	50 - 150	19.56	19.556	0.0040	+/-0.210	
LCS Dup (1B15017-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/16/11 18:29		
Bromofluorobenzene	0.05000	113	50 - 150	19.56	19.556	0.0040	+/-0.210	
GW0019 (1102135-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/16/11 19:38		
Bromofluorobenzene	0.05000	112	50 - 150	19.563	19.556	0.0070	+/-0.210	
GW0020 (1102135-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/16/11 20:13		
Bromofluorobenzene	0.05000	113	50 - 150	19.566	19.556	0.0100	+/-0.210	
GW0021 (1102135-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/16/11 20:48		
Bromofluorobenzene	0.05000	108	50 - 150	19.57	19.556	0.0140	+/-0.210	
GW0022 (1102141-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/16/11 21:22		
Bromofluorobenzene	0.05000	108	50 - 150	19.57	19.556	0.0140	+/-0.210	
GW8002-RB (1102141-04) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/16/11 21:57		
Bromofluorobenzene	0.05000	106	50 - 150	19.573	19.556	0.0170	+/-0.210	
Calibration Check (1B04818-CCV2) ug/mL				Lab File ID: 013F1301.D		Analyzed: 02/16/11 22:33		
Bromofluorobenzene	0.05000	112	80 - 120	19.563	19.556	0.0070	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05519	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05519-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/23/11 13:24		
Bromofluorobenzene	0.05000	112	80 - 120	19.573	19.573	0.0000	+/-0.210	
Blank (1B22015-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/23/11 16:16		
Bromofluorobenzene	0.05000	108	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS (1B22015-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/23/11 16:51		
Bromofluorobenzene	0.05000	110	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS Dup (1B22015-BSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/23/11 17:25		
Bromofluorobenzene	0.05000	109	50 - 150	19.58	19.573	0.0070	+/-0.210	
GW0011 (1102166-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/23/11 17:59		
Bromofluorobenzene	0.05000	116	50 - 150	19.583	19.573	0.0100	+/-0.210	
Matrix Spike (1B22015-MS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/23/11 18:33		
Bromofluorobenzene	0.05000	226	50 - 150	19.576	19.573	0.0030	+/-0.210	*
Matrix Spike Dup (1B22015-MSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 02/23/11 19:08		
Bromofluorobenzene	0.05000	214	50 - 150	19.58	19.573	0.0070	+/-0.210	*
GW0031 (1102166-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/23/11 20:17		
Bromofluorobenzene	0.05000	131	50 - 150	19.58	19.573	0.0070	+/-0.210	
GW0010 (1102174-01) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/23/11 20:51		
Bromofluorobenzene	0.05000	116	50 - 150	19.583	19.573	0.0100	+/-0.210	
GW0015 (1102174-03) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/23/11 21:26		
Bromofluorobenzene	0.05000	114	50 - 150	19.59	19.573	0.0170	+/-0.210	
GW0036 (1102174-05) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/23/11 22:00		
Bromofluorobenzene	0.05000	103	50 - 150	19.586	19.573	0.0130	+/-0.210	
GW0037 (1102174-07) mg/L				Lab File ID: 019F1901.D		Analyzed: 02/23/11 22:35		
Bromofluorobenzene	0.05000	105	50 - 150	19.573	19.573	0.0000	+/-0.210	
GW0038 (1102174-09) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/23/11 23:11		
Bromofluorobenzene	0.05000	101	50 - 150	19.566	19.573	-0.0070	+/-0.210	
Calibration Check (1B05519-CCV2) ug/mL				Lab File ID: 021F2101.D		Analyzed: 02/23/11 23:47		
Bromofluorobenzene	0.05000	106	80 - 120	19.563	19.573	-0.0100	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05605	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05605-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/24/11 11:36		
Bromofluorobenzene	0.05000	112	80 - 120	19.596	19.596	0.0000	+/-0.210	
Blank (1B24005-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/24/11 12:10		
Bromofluorobenzene	0.05000	112	50 - 150	19.596	19.596	0.0000	+/-0.210	
LCS (1B24005-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/24/11 12:45		
Bromofluorobenzene	0.05000	114	50 - 150	19.596	19.596	0.0000	+/-0.210	
LCS Dup (1B24005-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/24/11 13:19		
Bromofluorobenzene	0.05000	116	50 - 150	19.6	19.596	0.0040	+/-0.210	
GW0009 (1102179-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 02/24/11 13:54		
Bromofluorobenzene	0.05000	126	50 - 150	19.6	19.596	0.0040	+/-0.210	
Calibration Check (1B05605-CCV2) ug/mL				Lab File ID: 008F0801.D		Analyzed: 02/24/11 14:28		
Bromofluorobenzene	0.05000	114	80 - 120	19.603	19.596	0.0070	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/16/11 14:46	N/A	14.00	02/16/11 19:38	2.08	14.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/16/11 14:46	N/A	14.00	02/16/11 20:13	2.10	14.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/16/11 14:46	N/A	14.00	02/16/11 20:48	2.35	14.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/16/11 14:46	N/A	14.00	02/16/11 21:22	1.31	14.00	
GW8002-RB	02/15/11 14:50	02/16/11 08:30	02/16/11 14:46	N/A	14.00	02/16/11 21:57	1.30	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 17:59	7.26	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 20:17	7.18	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 20:51	6.20	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 21:26	6.39	14.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 22:00	6.45	14.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 22:35	6.45	14.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 23:11	6.47	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/24/11 09:48	N/A	14.00	02/24/11 13:54	5.99	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B15017-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	02/16/11 17:19
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05566	111	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B15017-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	02/16/11 17:54
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5778	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05744	115	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B15017-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	02/16/11 18:29
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6173	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05674	113	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B22015-BLK1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	02/23/11 16:16
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05386	108	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B22015-BS1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	02/23/11 16:51
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5479	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05518	110	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B22015-BSD1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	02/23/11 17:25
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5863	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05457	109	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_004	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1B22015-MS1	File ID:	012F1201.D
Sampled:		Prepared:		Analyzed:	02/23/11 18:33
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	27.07	0.0500	0.100	0.150	E

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.1129	226	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B22015-MSD1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	02/23/11 19:08
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	28.46	0.0500	0.100	0.150	E

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.1072	214	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B24005-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	02/24/11 12:10
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B24005	Sequence:	1B05605	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05584	112	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B24005-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	02/24/11 12:45
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B24005	Sequence:	1B05605	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5498	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05706	114	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B24005-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	02/24/11 13:19
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B24005	Sequence:	1B05605	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5995	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05780	116	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03804-CAL6	003B0301.D	02/04/11 11:28
Cal Standard	1B03804-CAL5	004B0401.D	02/04/11 12:02
Cal Standard	1B03804-CAL4	005B0501.D	02/04/11 12:35
Cal Standard	1B03804-CAL3	006B0601.D	02/04/11 13:09
Cal Standard	1B03804-CAL2	007B0701.D	02/04/11 13:42
Cal Standard	1B03804-CAL1	008B0801.D	02/04/11 14:16
Initial Cal Check	1B03804-ICV1	009B0901.D	02/04/11 14:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04904	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04904-CCV1	003B0301.D	02/17/11 15:41
Blank	1B15024-BLK1	004B0401.D	02/17/11 16:15
LCS	1B15024-BS1	005B0501.D	02/17/11 16:50
LCS Dup	1B15024-BSD1	006B0601.D	02/17/11 17:24
GW0019	1102135-01	007B0701.D	02/17/11 17:58
GW0020	1102135-03	008B0801.D	02/17/11 18:31
GW0021	1102135-05	009B0901.D	02/17/11 19:05
Calibration Check	1B04904-CCV2	010B1001.D	02/17/11 19:39

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05210	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05210-CCV1	003B0301.D	02/18/11 11:41
GW0022	1102141-01	004B0401.D	02/18/11 12:15
GW8002-RB	1102141-04	005B0501.D	02/18/11 12:49
Calibration Check	1B05210-CCV2	016B1601.D	02/18/11 19:03

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05511	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05511-CAL6	003F0301.D	02/23/11 12:03
Cal Standard	1B05511-CAL5	004F0401.D	02/23/11 12:37
Cal Standard	1B05511-CAL4	005F0501.D	02/23/11 13:10
Cal Standard	1B05511-CAL3	006F0601.D	02/23/11 13:44
Cal Standard	1B05511-CAL2	007F0701.D	02/23/11 14:17
Cal Standard	1B05511-CAL1	008F0801.D	02/23/11 14:50
Initial Cal Check	1B05511-ICV1	009F0901.D	02/23/11 15:23

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05513	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05513-CCV1	010F1001.D	02/23/11 15:57
Blank	1B18020-BLK1	020F2001.D	02/23/11 21:28
LCS	1B18020-BS1	021F2101.D	02/23/11 22:01
GW0011	1102166-01	022F2201.D	02/23/11 22:35
GW0011	1B18020-MS1	023F2301.D	02/23/11 23:09
GW0011	1B18020-MSD1	024F2401.D	02/23/11 23:42
GW0031	1102166-03	025F2501.D	02/24/11 00:16
GW0010	1102174-01	026F2601.D	02/24/11 00:49
GW0015	1102174-03	027F2701.D	02/24/11 01:23
GW0036	1102174-05	028F2801.D	02/24/11 01:57
GW0037	1102174-07	029F2901.D	02/24/11 02:30
GW0038	1102174-09	030F3001.D	02/24/11 03:04
GW0009	1102179-01	031F3101.D	02/24/11 03:37
Calibration Check	1B05513-CCV2	032F3201.D	02/24/11 04:11

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01	File ID:	007B0701.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 16:18	Analyzed:	02/17/11 17:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B15024 Sequence: 1B04904 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.48	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01654	87.6	30 - 140	

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	008B0801.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 16:18	Analyzed:	02/17/11 18:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B15024 Sequence: 1B04904 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.05	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01424	75.4	30 - 140	

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	009B0901.D
Sampled:	02/14/11 11:17	Prepared:	02/16/11 16:18	Analyzed:	02/17/11 19:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B15024 Sequence: 1B04904 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01112	58.9	30 - 140	

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	004B0401.D
Sampled:	02/15/11 13:59	Prepared:	02/17/11 16:01	Analyzed:	02/18/11 12:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B15024 Sequence: 1B05210 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01418	75.1	30 - 140	

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04	File ID:	005B0501.D
Sampled:	02/15/11 14:50	Prepared:	02/17/11 16:01	Analyzed:	02/18/11 12:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B15024 Sequence: 1B05210 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.01484	80.1	30 - 140	

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	022F2201.D
Sampled:	02/16/11 10:45	Prepared:	02/21/11 10:11	Analyzed:	02/23/11 22:35
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	28.2	2.02	2.02	2.02	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02020	0.02225	110	30 - 140	

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	025F2501.D
Sampled:	02/16/11 15:05	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 00:16
Solids:		Preparation:	EXT_3510	Dilution:	2

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.14	0.192	0.192	0.192	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01768	91.9	30 - 140	

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	026F2601.D
Sampled:	02/17/11 14:56	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 00:49
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	27.3	1.88	1.88	1.88	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01878	0.01757	93.5	30 - 140	

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	027F2701.D
Sampled:	02/17/11 11:10	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 01:23
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	15.5	0.935	0.935	0.935	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01775	95.0	30 - 140	

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	028F2801.D
Sampled:	02/17/11 10:18	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 01:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0952	0.0952	0.0952	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01905	0.01720	90.3	30 - 140	

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	029F2901.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 02:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01625	86.1	30 - 140	

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	030F3001.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 03:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0952	0.0952	0.0952	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01905	0.01723	90.4	30 - 140	

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	031F3101.D
Sampled:	02/18/11 13:06	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 03:37
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	32.5	1.89	1.89	1.89	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01792	95.0	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15024	Laboratory ID:	1B15024-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5772	57.7	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5218	52.2	10.1	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18020	Laboratory ID:	1B18020-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5368	53.7	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B18020

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	28.21	24.77	-343	*	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.053	28.51	29.2	14.0	*	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15024 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/16/11 16:18	1,060.00	1.00
GW0020	1102135-03	02/16/11 16:18	1,060.00	1.00
GW0021	1102135-05	02/16/11 16:18	1,060.00	1.00
GW0022	1102141-01	02/17/11 16:01	1,060.00	1.00
GW8002-RB	1102141-04	02/17/11 16:01	1,080.00	1.00
Blank	1B15024-BLK1	02/16/11 16:18	1,000.00	1.00
LCS	1B15024-BS1	02/16/11 16:18	1,000.00	1.00
LCS Dup	1B15024-BSD1	02/16/11 16:18	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18020 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/21/11 10:11	990.00	1.00
GW0031	1102166-03	02/21/11 10:11	1,040.00	1.00
GW0010	1102174-01	02/21/11 10:11	1,065.00	1.00
GW0015	1102174-03	02/21/11 10:11	1,070.00	1.00
GW0036	1102174-05	02/21/11 10:11	1,050.00	1.00
GW0037	1102174-07	02/21/11 10:11	1,060.00	1.00
GW0038	1102174-09	02/21/11 10:11	1,050.00	1.00
GW0009	1102179-01	02/21/11 10:11	1,060.00	1.00
Blank	1B18020-BLK1	02/21/11 10:11	1,000.00	1.00
LCS	1B18020-BS1	02/21/11 10:11	1,000.00	1.00
GW0011	1B18020-MS1	02/21/11 10:11	1,000.00	1.00
GW0011	1B18020-MSD1	02/21/11 10:11	950.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B03804-CAL6	003B0301.D	02/04/11 11:28
10K0189	DRO ICAL5@250ppm	1B03804-CAL5	004B0401.D	02/04/11 12:02
10K0190	DRO ICAL4@500ppm	1B03804-CAL4	005B0501.D	02/04/11 12:35
10K0192	DRO ICAL3@1000ppm	1B03804-CAL3	006B0601.D	02/04/11 13:09
10K0193	DRO ICAL2@2500ppm	1B03804-CAL2	007B0701.D	02/04/11 13:42
10K0194	DRO ICAL1@5000ppm	1B03804-CAL1	008B0801.D	02/04/11 14:16

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05511	Instrument:	GL-GCFID2
Calibration:	1055002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B05511-CAL6	003F0301.D	02/23/11 12:03
10K0189	DRO ICAL5@250ppm	1B05511-CAL5	004F0401.D	02/23/11 12:37
10K0190	DRO ICAL4@500ppm	1B05511-CAL4	005F0501.D	02/23/11 13:10
10K0192	DRO ICAL3@1000ppm	1B05511-CAL3	006F0601.D	02/23/11 13:44
10K0193	DRO ICAL2@2500ppm	1B05511-CAL2	007F0701.D	02/23/11 14:17
10K0194	DRO ICAL1@5000ppm	1B05511-CAL1	008F0801.D	02/23/11 14:50

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011_11:28:54AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1351.87	250	1499.38	500	1574.304	1000	1676.537	2500	1883.202	5000	1703.416
o-Terphenyl	5	1984.4	12.5	1928.48	25	1883.4	50	1943.72	125	1932.104	250	1921.648

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1614.785	11.34472	6.25	0			20	
o-Terphenyl	1932.292	1.695087	11.31367	0.0744468			20	

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1055002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/23/2011_12:03:48PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1855.71	250	1817.04	500	1796.666	1000	1843.481	2500	2105.9	5000	1756.688
o-Terphenyl	5	2068.4	12.5	2082.56	25	2153.56	50	2195.82	125	2197.272	250	2265.896

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1055002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/23/2011 12:03:48PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1862.581	6.673355	4.54	1.997184E-02			20	
o-Terphenyl	2160.585	3.482875	8.299667	0.1498473			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	009B0901.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03804	Injection Date:	02/04/11
Lab Sample ID:	1B03804-ICV1	Injection Time:	14:50

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1178	1614.785	1901.657		17.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	009F0901.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05511	Injection Date:	02/23/11
Lab Sample ID:	1B05511-ICV1	Injection Time:	15:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1074	1862.581	2000.49		7.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	003B0301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04904	Injection Date:	02/17/11
Lab Sample ID:	1B04904-CCV1	Injection Time:	15:41

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1039	1614.785	1677.532		3.9	20
o-Terphenyl	A	50.00	45.70	1932.292	1766.06		-8.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	010B1001.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04904	Injection Date:	02/17/11
Lab Sample ID:	1B04904-CCV2	Injection Time:	19:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1094	1614.785	1766.171		9.4	20
o-Terphenyl	A	50.00	48.76	1932.292	1884.6		-2.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	003B0301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B05210	Injection Date:	02/18/11
Lab Sample ID:	1B05210-CCV1	Injection Time:	11:41

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1038	1614.785	1676.326		3.8	20
o-Terphenyl	A	50.00	45.39	1932.292	1754.24		-9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	016B1601.D	Calibration Date:	02/04/11 11:28
Sequence:	1B05210	Injection Date:	02/18/11
Lab Sample ID:	1B05210-CCV2	Injection Time:	19:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1109	1614.785	1790.984		10.9	20
o-Terphenyl	A	50.00	54.07	1932.292	2089.62		8.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	010F1001.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05513	Injection Date:	02/23/11
Lab Sample ID:	1B05513-CCV1	Injection Time:	15:57

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	946.1	1862.581	1762.193		-5.4	20
o-Terphenyl	A	50.00	50.93	2160.585	2200.76		1.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	032F3201.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05513	Injection Date:	02/24/11
Lab Sample ID:	1B05513-CCV2	Injection Time:	04:11

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	976.7	1862.581	1819.173		-2.3	20
o-Terphenyl	A	50.00	52.17	2160.585	2254.26		4.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04904	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04904-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 02/17/11 15:41		
o-Terphenyl	50.00	91.4	80 - 120	11.29	11.29	0.0000	+/-0.050	
Blank (1B15024-BLK1) mg/L				Lab File ID: 004B0401.D		Analyzed: 02/17/11 16:15		
o-Terphenyl	0.02000	58.8	30 - 140	11.31	11.29	0.0200	+/-0.050	
LCS (1B15024-BS1) mg/L				Lab File ID: 005B0501.D		Analyzed: 02/17/11 16:50		
o-Terphenyl	0.02000	66.5	30 - 140	11.293	11.29	0.0030	+/-0.050	
LCS Dup (1B15024-BSD1) mg/L				Lab File ID: 006B0601.D		Analyzed: 02/17/11 17:24		
o-Terphenyl	0.02000	63.9	30 - 140	11.31	11.29	0.0200	+/-0.050	
GW0019 (1102135-01) mg/L				Lab File ID: 007B0701.D		Analyzed: 02/17/11 17:58		
o-Terphenyl	0.01887	87.6	30 - 140	11.293	11.29	0.0030	+/-0.050	
GW0020 (1102135-03) mg/L				Lab File ID: 008B0801.D		Analyzed: 02/17/11 18:31		
o-Terphenyl	0.01887	75.4	30 - 140	11.283	11.29	-0.0070	+/-0.050	
GW0021 (1102135-05) mg/L				Lab File ID: 009B0901.D		Analyzed: 02/17/11 19:05		
o-Terphenyl	0.01887	58.9	30 - 140	11.293	11.29	0.0030	+/-0.050	
Calibration Check (1B04904-CCV2) mg/L				Lab File ID: 010B1001.D		Analyzed: 02/17/11 19:39		
o-Terphenyl	50.00	97.5	80 - 120	11.273	11.29	-0.0170	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05210	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05210-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 02/18/11 11:41		
o-Terphenyl	50.00	90.8	80 - 120	11.296	11.296	0.0000	+/-0.050	
GW0022 (1102141-01) mg/L				Lab File ID: 004B0401.D		Analyzed: 02/18/11 12:15		
o-Terphenyl	0.01887	75.1	30 - 140	11.303	11.296	0.0070	+/-0.050	
GW8002-RB (1102141-04) mg/L				Lab File ID: 005B0501.D		Analyzed: 02/18/11 12:49		
o-Terphenyl	0.01852	80.1	30 - 140	11.306	11.296	0.0100	+/-0.050	
Calibration Check (1B05210-CCV2) mg/L				Lab File ID: 016B1601.D		Analyzed: 02/18/11 19:03		
o-Terphenyl	50.00	108	80 - 120	11.276	11.296	-0.0200	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05513	Instrument:	GL-GCFID2
		Calibration:	1055002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05513-CCV1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/23/11 15:57		
o-Terphenyl	50.00	102	80 - 120	8.3	8.3	0.0000	+/-0.050	
Blank (1B18020-BLK1) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/23/11 21:28		
o-Terphenyl	0.02000	88.5	30 - 140	8.296	8.3	-0.0040	+/-0.050	
LCS (1B18020-BS1) mg/L				Lab File ID: 021F2101.D		Analyzed: 02/23/11 22:01		
o-Terphenyl	0.02000	73.9	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0011 (1102166-01) mg/L				Lab File ID: 022F2201.D		Analyzed: 02/23/11 22:35		
o-Terphenyl	0.02020	110	30 - 140	8.286	8.3	-0.0140	+/-0.050	
Matrix Spike (1B18020-MS1) mg/L				Lab File ID: 023F2301.D		Analyzed: 02/23/11 23:09		
o-Terphenyl	0.02000	53.8	30 - 140	8.283	8.3	-0.0170	+/-0.050	
Matrix Spike Dup (1B18020-MSD1) mg/L				Lab File ID: 024F2401.D		Analyzed: 02/23/11 23:42		
o-Terphenyl	0.02105	64.3	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0031 (1102166-03) mg/L				Lab File ID: 025F2501.D		Analyzed: 02/24/11 00:16		
o-Terphenyl	0.01923	91.9	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0010 (1102174-01) mg/L				Lab File ID: 026F2601.D		Analyzed: 02/24/11 00:49		
o-Terphenyl	0.01878	93.5	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0015 (1102174-03) mg/L				Lab File ID: 027F2701.D		Analyzed: 02/24/11 01:23		
o-Terphenyl	0.01869	95.0	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0036 (1102174-05) mg/L				Lab File ID: 028F2801.D		Analyzed: 02/24/11 01:57		
o-Terphenyl	0.01905	90.3	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0037 (1102174-07) mg/L				Lab File ID: 029F2901.D		Analyzed: 02/24/11 02:30		
o-Terphenyl	0.01887	86.1	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0038 (1102174-09) mg/L				Lab File ID: 030F3001.D		Analyzed: 02/24/11 03:04		
o-Terphenyl	0.01905	90.4	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0009 (1102179-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 02/24/11 03:37		
o-Terphenyl	0.01887	95.0	30 - 140	8.286	8.3	-0.0140	+/-0.050	
Calibration Check (1B05513-CCV2) mg/L				Lab File ID: 032F3201.D		Analyzed: 02/24/11 04:11		
o-Terphenyl	50.00	104	80 - 120	8.29	8.3	-0.0100	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/16/11 16:18	1.94	7.00	02/17/11 17:58	1.07	40.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/16/11 16:18	1.94	7.00	02/17/11 18:31	1.09	40.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/16/11 16:18	2.17	7.00	02/17/11 19:05	1.12	40.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/17/11 16:01	2.08	7.00	02/18/11 12:15	0.84	40.00	
GW8002-RB	02/15/11 14:50	02/16/11 08:30	02/17/11 16:01	2.05	7.00	02/18/11 12:49	0.87	40.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/21/11 10:11	4.93	7.00	02/23/11 22:35	2.52	40.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/21/11 10:11	4.75	7.00	02/24/11 00:16	2.59	40.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/21/11 10:11	3.76	7.00	02/24/11 00:49	2.61	40.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/21/11 10:11	3.92	7.00	02/24/11 01:23	2.63	40.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/21/11 10:11	3.95	7.00	02/24/11 01:57	2.66	40.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/21/11 10:11	3.93	7.00	02/24/11 02:30	2.68	40.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/21/11 10:11	3.93	7.00	02/24/11 03:04	2.70	40.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/21/11 10:11	2.84	7.00	02/24/11 03:37	2.73	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B15024-BLK1	File ID:	004B0401.D
Sampled:		Prepared:		Analyzed:	02/17/11 16:15
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B15024	Sequence:	1B04904	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01176	58.8	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B15024-BS1	File ID:	005B0501.D
Sampled:		Prepared:		Analyzed:	02/17/11 16:50
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B15024	Sequence:	1B04904	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5772	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01329	66.5	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B15024-BSD1	File ID:	006B0601.D
Sampled:		Prepared:		Analyzed:	02/17/11 17:24
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B15024	Sequence:	1B04904	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5218	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01278	63.9	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B18020-BLK1	File ID:	020F2001.D
Sampled:		Prepared:		Analyzed:	02/23/11 21:28
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01769	88.5	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B18020-BS1	File ID:	021F2101.D
Sampled:		Prepared:		Analyzed:	02/23/11 22:01
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5368	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01478	73.9	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B18020-MS1	File ID:	023F2301.D
Sampled:		Prepared:		Analyzed:	02/23/11 23:09
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	24.77	2.00	2.00	2.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01077	53.8	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B18020-MSD1	File ID:	024F2401.D
Sampled:		Prepared:		Analyzed:	02/23/11 23:42
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	28.51	2.11	2.11	2.11	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02105	0.01353	64.3	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCFID

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05305	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05305-CCV1	002F0101.D	02/21/11 12:03
Calibration Check	1B05305-CCV1	002R0101.D	02/21/11 12:03
LCS	1B21009-BS1	004R0101.D	02/21/11 12:45
LCS	1B21009-BS1	004F0101.D	02/21/11 12:45
Blank	1B21009-BLK1	005R0101.D	02/21/11 13:07
GW0019	1102135-01	006F0101.D	02/21/11 13:28
GW0019	1102135-01	006R0101.D	02/21/11 13:28
GW0020	1102135-03	007R0101.D	02/21/11 13:49
GW0020	1102135-03	007F0101.D	02/21/11 13:49
GW0021	1102135-05	008R0101.D	02/21/11 14:10
GW0021	1102135-05	008F0101.D	02/21/11 14:10
GW0022	1102141-01	009R0101.D	02/21/11 14:32
GW0011	1102166-01	010F0101.D	02/21/11 14:53
GW0011	1102166-01	010R0101.D	02/21/11 14:53
GW0011	1B21009-MS1	011F0101.D	02/21/11 15:14
GW0011	1B21009-MS1	011R0101.D	02/21/11 15:14
GW0011	1B21009-MSD1	012R0101.D	02/21/11 15:35
GW0011	1B21009-MSD1	012F0101.D	02/21/11 15:35
GW0031	1102166-03	013F0101.D	02/21/11 15:57
GW0031	1102166-03	013R0101.D	02/21/11 15:57
GW0010	1102174-01	014R0101.D	02/21/11 16:18
GW0010	1102174-01	014F0101.D	02/21/11 16:18
GW0015	1102174-03	015R0101.D	02/21/11 16:39
GW0015	1102174-03	015F0101.D	02/21/11 16:39
GW0036	1102174-05	016F0101.D	02/21/11 17:00
GW0037	1102174-07	017R0101.D	02/21/11 17:22
Calibration Check	1B05305-CCV2	018F0101.D	02/21/11 17:43
Calibration Check	1B05305-CCV2	018R0101.D	02/21/11 17:43
GW0038	1102174-09	019R0101.D	02/21/11 18:04
GW0009	1102179-01	020R0101.D	02/21/11 18:25
GW0009	1102179-01	020F0101.D	02/21/11 18:25
GW0019	1102135-01RE1	021R0101.D	02/21/11 18:46

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05305	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0019	1102135-01RE1	021F0101.D	02/21/11 18:46
GW0031	1102166-03RE1	023F0101.D	02/21/11 19:28
GW0031	1102166-03RE1	023R0101.D	02/21/11 19:28
GW0010	1102174-01RE1	024F0101.D	02/21/11 19:49
GW0010	1102174-01RE1	024R0101.D	02/21/11 19:49
Calibration Check	1B05305-CCV3	027R0101.D	02/21/11 20:53
Calibration Check	1B05305-CCV3	027F0101.D	02/21/11 20:53

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05310	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05310-CCV1	002R0101.D	02/22/11 10:41
Calibration Check	1B05310-CCV1	002F0101.D	02/22/11 10:41
GW0011	1102166-01RE1	004R0101.D	02/22/11 11:23
GW0011	1102166-01RE1	004F0101.D	02/22/11 11:23
GW0015	1102174-03RE1	005R0101.D	02/22/11 11:44
GW0015	1102174-03RE1	005F0101.D	02/22/11 11:44
GW0009	1102179-01RE1	006R0101.D	02/22/11 12:05
GW0009	1102179-01RE1	006F0101.D	02/22/11 12:05
Calibration Check	1B05310-CCV2	007R0101.D	02/22/11 12:26
Calibration Check	1B05310-CCV2	007F0101.D	02/22/11 12:26

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01	File ID:	006R0101.D
Sampled:	02/14/11 16:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 13:28
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.998	0.00968	0.0194	0.0290	E

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01RE1	File ID:	021F0101.D
Sampled:	02/14/11 16:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 18:46
Solids:		Preparation:	EDB	Dilution:	2

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.864	0.0194	0.0387	0.0581	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	007R0101.D
Sampled:	02/14/11 16:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 13:49
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.950	0.00951	0.0190	0.0285	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	008R0101.D
Sampled:	02/14/11 11:17	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 14:10
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.353	0.00994	0.0199	0.0298	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	009R0101.D
Sampled:	02/15/11 13:59	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 14:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00964	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	010F0101.D
Sampled:	02/16/11 10:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 14:53
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	118	0.00942	0.0188	0.0283	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01RE1	File ID:	004F0101.D
Sampled:	02/16/11 10:45	Prepared:	02/21/11 10:52	Analyzed:	02/22/11 11:23
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1B21009 Sequence: 1B05310 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	100	1.88	3.77	5.65	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	013R0101.D
Sampled:	02/16/11 15:05	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 15:57
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	16.1	0.00953	0.0191	0.0286	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03RE1	File ID:	023F0101.D
Sampled:	02/16/11 15:05	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 19:28
Solids:		Preparation:	EDB	Dilution:	20

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	10.3	0.191	0.381	0.572	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	014R0101.D
Sampled:	02/17/11 14:56	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 16:18
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	12.8	0.00942	0.0188	0.0283	E

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01RE1	File ID:	024F0101.D
Sampled:	02/17/11 14:56	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 19:49
Solids:		Preparation:	EDB	Dilution:	20

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	10.6	0.188	0.377	0.565	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	015F0101.D
Sampled:	02/17/11 11:10	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 16:39
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	78.8	0.00956	0.0191	0.0287	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03RE1	File ID:	005F0101.D
Sampled:	02/17/11 11:10	Prepared:	02/21/11 10:52	Analyzed:	02/22/11 11:44
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1B21009 Sequence: 1B05310 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	76.7	1.91	3.83	5.74	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	016F0101.D
Sampled:	02/17/11 10:18	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 17:00
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00964	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	017R0101.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 17:22
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00943	0.0189	0.0283	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	019R0101.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 18:04
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00963	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	020F0101.D
Sampled:	02/18/11 13:06	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 18:25
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	59.8	0.00952	0.0190	0.0285	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01RE1	File ID:	006F0101.D
Sampled:	02/18/11 13:06	Prepared:	02/21/11 10:52	Analyzed:	02/22/11 12:05
Solids:		Preparation:	EDB	Dilution:	100

Batch: 1B21009 Sequence: 1B05310 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	59.3	0.952	1.90	2.85	D

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21009	Laboratory ID:	1B21009-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5447	109	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5594	112	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B21009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4838	118.3	140.8	4660	*	70 - 130
1,2-Dibromoethane [2C]	0.4838	827.0	1045	45100	*	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4963	141.6	4700	0.568	*	20	70 - 130
1,2-Dibromoethane [2C]	0.4963	1051	45200	0.600	*	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B21009 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/21/11 10:52	36.15	35.00
GW0019	1102135-01RE1	02/21/11 10:52	36.15	35.00
GW0020	1102135-03	02/21/11 10:52	36.82	35.00
GW0021	1102135-05	02/21/11 10:52	35.20	35.00
GW0022	1102141-01	02/21/11 10:52	36.29	35.00
GW0011	1102166-01	02/21/11 10:52	37.14	35.00
GW0011	1102166-01RE1	02/21/11 10:52	37.14	35.00
GW0031	1102166-03	02/21/11 10:52	36.74	35.00
GW0031	1102166-03RE1	02/21/11 10:52	36.74	35.00
GW0010	1102174-01	02/21/11 10:52	37.15	35.00
GW0010	1102174-01RE1	02/21/11 10:52	37.15	35.00
GW0015	1102174-03	02/21/11 10:52	36.60	35.00
GW0015	1102174-03RE1	02/21/11 10:52	36.60	35.00
GW0036	1102174-05	02/21/11 10:52	36.29	35.00
GW0037	1102174-07	02/21/11 10:52	37.10	35.00
GW0038	1102174-09	02/21/11 10:52	36.35	35.00
GW0009	1102179-01	02/21/11 10:52	36.78	35.00
GW0009	1102179-01RE1	02/21/11 10:52	36.78	35.00
Blank	1B21009-BLK1	02/21/11 10:52	35.00	35.00
LCS	1B21009-BS1	02/21/11 10:52	35.00	35.00
GW0011	1B21009-MS1	02/21/11 10:52	36.17	35.00
GW0011	1B21009-MSD1	02/21/11 10:52	35.26	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B21009-BLK1	File ID:	005R0101.D
Sampled:		Prepared:	02/21/11 10:52	Analyzed:	02/21/11 13:07
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05305	Injection Date:	02/21/11
Lab Sample ID:	1B05305-CCV1	Injection Time:	12:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5322	17489.79	16266		6.4	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5503	37183.36	35930		10.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	018F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05305	Injection Date:	02/21/11
Lab Sample ID:	1B05305-CCV2	Injection Time:	17:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5004	17489.79	15358		0.08	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4961	37183.36	32946		-0.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	027F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05305	Injection Date:	02/21/11
Lab Sample ID:	1B05305-CCV3	Injection Time:	20:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4971	17489.79	15264		-0.6	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5078	37183.36	33600		1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05310	Injection Date:	02/22/11
Lab Sample ID:	1B05310-CCV1	Injection Time:	10:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5206	17489.79	15936		4.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5273	37183.36	34676		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	007F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05310	Injection Date:	02/22/11
Lab Sample ID:	1B05310-CCV2	Injection Time:	12:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5131	17489.79	15722		2.6	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5276	37183.36	34692		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/21/11 10:52	6.71	14.00	02/21/11 13:28	0.11	14.00	
GW0019	02/14/11 16:45	02/15/11 08:45	02/21/11 10:52	6.71	14.00	02/21/11 18:46	0.33	14.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/21/11 10:52	6.71	14.00	02/21/11 13:49	0.12	14.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/21/11 10:52	6.94	14.00	02/21/11 14:10	0.14	14.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/21/11 10:52	5.87	14.00	02/21/11 14:32	0.15	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/21/11 10:52	4.96	14.00	02/21/11 14:53	0.17	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/21/11 10:52	4.96	14.00	02/22/11 11:23	1.02	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/21/11 10:52	4.78	14.00	02/21/11 15:57	0.21	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/21/11 10:52	4.78	14.00	02/21/11 19:28	0.36	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/21/11 10:52	3.79	14.00	02/21/11 16:18	0.23	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/21/11 10:52	3.79	14.00	02/21/11 19:49	0.37	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/21/11 10:52	3.95	14.00	02/21/11 16:39	0.24	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/21/11 10:52	3.95	14.00	02/22/11 11:44	1.04	14.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/21/11 10:52	3.98	14.00	02/21/11 17:00	0.26	14.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/21/11 10:52	3.96	14.00	02/21/11 17:22	0.27	14.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/21/11 10:52	3.96	14.00	02/21/11 18:04	0.30	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/21/11 10:52	2.87	14.00	02/21/11 18:25	0.31	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/21/11 10:52	2.87	14.00	02/22/11 12:05	1.05	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B21009-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	02/21/11 12:45
Solids:		Preparation:	EDB	Dilution:	

Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5447	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B21009-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 02/21/11 12:45
Solids:
Preparation: EDB
Dilution:
Batch: 1B21009
Sequence: 1B05305
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5594	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B21009-MS1	File ID:	011F0101.D
Sampled:		Prepared:		Analyzed:	02/21/11 15:14
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	140.8	0.00968	0.0194	0.0290	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B21009-MS1
File ID: 011R0101.D
Sampled:
Prepared:
Analyzed: 02/21/11 15:14
Solids:
Preparation: EDB
Dilution:
Batch: 1B21009
Sequence: 1B05305
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	1045	0.00968	0.0194	0.0290	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B21009-MSD1
File ID: 012F0101.D
Sampled:
Prepared:
Analyzed: 02/21/11 15:35
Solids:
Preparation: EDB
Dilution:
Batch: 1B21009
Sequence: 1B05305
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	141.6	0.00993	0.0199	0.0298	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B21009-MSD1	File ID:	012R0101.D
Sampled:		Prepared:		Analyzed:	02/21/11 15:35
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	1051	0.00993	0.0199	0.0298	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0019

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.958	
	2	0.58	0.55	0.61	0.998	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0019

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-01RE1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.864	
	2	0.58	0.55	0.61	0.704	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0020

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-03 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.899	
	2	0.58	0.55	0.61	0.950	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0021

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-05

Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.334	
	2	0.58	0.55	0.61	0.353	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0011

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-01

Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	118	
	2	0.58	0.55	0.61	827	150

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0011

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-01RE1 Date(s) Analyzed: 02/22/2011 02/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	100	
	2	0.58	0.55	0.61	86.9	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0031

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-03

Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	8.33	
	2	0.58	0.55	0.61	16.1	64

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0031

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-03RE1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	10.3	
	2	0.58	0.55	0.61	7.73	29

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0010

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	9.24	
	2	0.58	0.55	0.61	12.8	32

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0010

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-01RE1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	10.6	
	2	0.58	0.55	0.61	8.27	25

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0015

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-03

Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	78.8	
	2	0.58	0.55	0.61	458	141

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0015

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-03RE1 Date(s) Analyzed: 02/22/2011 02/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	76.7	
	2	0.58	0.55	0.61	62.6	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0009

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102179-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	59.8	
	2	0.58	0.55	0.61	323	138

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0009

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102179-01RE1 Date(s) Analyzed: 02/22/2011 02/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	59.3	
	2	0.58	0.55	0.61	50.2	17

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B21009-BS1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5447	
	2	0.58	0.55	0.61	0.5594	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B21009-MS1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	140.8	
	2	0.58	0.55	0.61	1045	153

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B21009-MSD1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	141.6	
	2	0.58	0.55	0.61	1051	153

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011
1,2-Dibromoethane [2C]	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01
Sampled:	02/14/11 16:45	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	42000	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:40
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:40
7439-95-4	Magnesium	5990	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:40
7440-09-7	Potassium	2420	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:40
7440-23-5	Sodium	24700	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:40

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-02
Sampled:	02/14/11 16:45	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	120	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 21:55
7439-96-5	Manganese (dissolved)	844	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 21:55

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03
Sampled:	02/14/11 16:45	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44600	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:44
7439-95-4	Magnesium	6380	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:44
7440-09-7	Potassium	2610	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:44
7440-23-5	Sodium	26600	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:44

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-04
Sampled:	02/14/11 16:45	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	125	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:00
7439-96-5	Manganese (dissolved)	844	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:00

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05
Sampled:	02/14/11 11:17	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	38800	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:49
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:49
7439-95-4	Magnesium	4980	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:49
7440-09-7	Potassium	2220	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:49
7440-23-5	Sodium	23800	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:49

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-06
Sampled:	02/14/11 11:17	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 22:04
7439-96-5	Manganese (dissolved)	10.2	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 22:04

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01
Sampled:	02/15/11 13:59	Received:	02/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	46800	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:53
7439-95-4	Magnesium	6390	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:53
7440-09-7	Potassium	2430	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:53
7440-23-5	Sodium	24500	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:53

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04
Sampled:	02/15/11 14:50	Received:	02/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium		1000	2000	5000	1	U	SW6010B	1C02002	03/04/11 12:58
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:58
7439-95-4	Magnesium		1000	3000	5000	1	U	SW6010B	1C02002	03/04/11 12:58
7440-09-7	Potassium		1000	3000	5000	1	U	SW6010B	1C02002	03/04/11 12:58
7440-23-5	Sodium		1000	3000	5000	1	U	SW6010B	1C02002	03/04/11 12:58

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-05
Sampled:	02/15/11 14:50	Received:	02/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	36.9	30.0	60.0	100	1	J	SW6010B	1C07004	03/07/11 22:09
7439-96-5	Manganese (dissolved)	6.84	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 22:09

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-06
Sampled:	02/15/11 13:59	Received:	02/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 22:14
7439-96-5	Manganese (dissolved)	33.0	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:14

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01
Sampled:	02/16/11 10:45	Received:	02/17/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	80600	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 20:26
7439-95-4	Magnesium	10600	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:26
7440-09-7	Potassium	3040	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:26
7440-23-5	Sodium	35300	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:26

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-02
Sampled:	02/16/11 10:45	Received:	02/17/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	143	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:18
7439-96-5	Manganese (dissolved)	1100	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:18

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03
Sampled:	02/16/11 15:05	Received:	02/17/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	78400	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:49
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1C04002	03/07/11 20:49
7439-95-4	Magnesium	10400	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:49
7440-09-7	Potassium	3040	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:49
7440-23-5	Sodium	35500	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:49

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-04
Sampled:	02/16/11 15:05	Received:	02/17/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	48.8	30.0	60.0	100	1	J	SW6010B	1C07004	03/07/11 22:37
7439-96-5	Manganese (dissolved)	498	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:37

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01
Sampled:	02/17/11 14:56	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	110000	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:54
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 20:54
7439-95-4	Magnesium	16100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:54
7440-09-7	Potassium	3760	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:54
7440-23-5	Sodium	37700	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:54

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-02
Sampled:	02/17/11 14:56	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	1320	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:42
7439-96-5	Manganese (dissolved)	3800	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:42

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03
Sampled:	02/17/11 11:10	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	56800	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:59
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 20:59
7439-95-4	Magnesium	7310	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:59
7440-09-7	Potassium	2520	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:59
7440-23-5	Sodium	30400	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:59

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-04
Sampled:	02/17/11 11:10	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	637	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:47
7439-96-5	Manganese (dissolved)	675	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:47

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05
Sampled:	02/17/11 10:18	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	31100	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:03
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 21:03
7439-95-4	Magnesium	6860	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:03
7440-09-7	Potassium	6060	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:03
7440-23-5	Sodium	38100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:03

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-06
Sampled:	02/17/11 10:18	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 22:51
7439-96-5	Manganese (dissolved)	22.5	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:51

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07
Sampled:	02/17/11 10:50	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	50500	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:08
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 21:08
7439-95-4	Magnesium	5150	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:08
7440-09-7	Potassium	3580	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:08
7440-23-5	Sodium	31100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:08

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-08
Sampled:	02/17/11 10:50	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	30.4	30.0	60.0	100	1	J	SW6010B	1C07004	03/07/11 23:09
7439-96-5	Manganese (dissolved)	7.32	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 23:09

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09
Sampled:	02/17/11 10:50	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	48700	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:13
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1C04002	03/07/11 21:13
7439-95-4	Magnesium	4960	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:13
7440-09-7	Potassium	3850	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:13
7440-23-5	Sodium	32000	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:13

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-10
Sampled:	02/17/11 10:50	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 23:14
7439-96-5	Manganese (dissolved)	6.51	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 23:14

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01
Sampled:	02/18/11 13:06	Received:	02/19/11 09:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	55600	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:17
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 21:17
7439-95-4	Magnesium	7520	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:17
7440-09-7	Potassium	2480	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:17
7440-23-5	Sodium	29900	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:17

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-02
Sampled:	02/18/11 13:06	Received:	02/19/11 09:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	390	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 23:18
7439-96-5	Manganese (dissolved)	992	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 23:18

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1065001
Sequence: 1C06501

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06501-ICV1	Calcium	50000	50840	102	ug/L	+/- 10.00%
	Lead	1000	991.1	99.1	ug/L	+/- 10.00%
	Magnesium	50000	47760	95.5	ug/L	+/- 10.00%
	Potassium	10000	9749	97.5	ug/L	+/- 10.00%
	Sodium	50000	51400	103	ug/L	+/- 10.00%
1C06501-CCV1	Calcium	50000	51600	103	ug/L	+/- 10.00%
	Lead	1000	1001	100	ug/L	+/- 10.00%
	Magnesium	50000	48320	96.6	ug/L	+/- 10.00%
	Potassium	10000	10420	104	ug/L	+/- 10.00%
	Sodium	50000	51830	104	ug/L	+/- 10.00%
1C06501-CCV2	Calcium	50000	51400	103	ug/L	+/- 10.00%
	Lead	1000	974.5	97.5	ug/L	+/- 10.00%
	Magnesium	50000	47560	95.1	ug/L	+/- 10.00%
	Potassium	10000	10500	105	ug/L	+/- 10.00%
	Sodium	50000	51100	102	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06703-ICV1	Calcium	50000	48570	97.1	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9746	97.5	ug/L	+/- 10.00%
	Lead	1000	993.4	99.3	ug/L	+/- 10.00%
	Magnesium	50000	46670	93.3	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1004	100	ug/L	+/- 10.00%
	Potassium	10000	9760	97.6	ug/L	+/- 10.00%
	Sodium	50000	49740	99.5	ug/L	+/- 10.00%
1C06703-CCV1	Calcium	50000	48840	97.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9708	97.1	ug/L	+/- 10.00%
	Lead	1000	1052	105	ug/L	+/- 10.00%
	Magnesium	50000	48230	96.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1044	104	ug/L	+/- 10.00%
	Potassium	10000	10040	100	ug/L	+/- 10.00%
	Sodium	50000	50340	101	ug/L	+/- 10.00%
1C06703-CCV4	Calcium	50000	51230	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	47120	94.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.2	99.0	ug/L	+/- 10.00%
	Potassium	10000	9727	97.3	ug/L	+/- 10.00%
	Sodium	50000	50920	102	ug/L	+/- 10.00%
1C06703-CCV5	Calcium	50000	53470	107	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10700	107	ug/L	+/- 10.00%
	Lead	1000	916.7	91.7	ug/L	+/- 10.00%
	Magnesium	50000	47400	94.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	977.0	97.7	ug/L	+/- 10.00%
	Potassium	10000	9560	95.6	ug/L	+/- 10.00%
	Sodium	50000	52300	105	ug/L	+/- 10.00%
1C06703-CCV6	Calcium	50000	53040	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10710	107	ug/L	+/- 10.00%
	Lead	1000	907.1	90.7	ug/L	+/- 10.00%
	Magnesium	50000	47090	94.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	956.1	95.6	ug/L	+/- 10.00%
	Potassium	10000	9568	95.7	ug/L	+/- 10.00%
	Sodium	50000	52740	105	ug/L	+/- 10.00%
1C06703-CCV7	Calcium	50000	51080	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10430	104	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06703-CCV7	Magnesium	50000	46980	94.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	976.5	97.6	ug/L	+/- 10.00%
	Potassium	10000	9910	99.1	ug/L	+/- 10.00%
	Sodium	50000	53050	106	ug/L	+/- 10.00%
1C06703-CCV8	Calcium	50000	51700	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Lead	1000	938.1	93.8	ug/L	+/- 10.00%
	Magnesium	50000	47350	94.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	955.8	95.6	ug/L	+/- 10.00%
	Potassium	10000	9908	99.1	ug/L	+/- 10.00%
	Sodium	50000	53310	107	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1065001

Sequence: 1C06501

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06501-CRL1	Calcium	2000	2031	102	ug/L	80 - 120
	Lead	3.000	2.836	94.5	ug/L	80 - 120
	Magnesium	3000	2818	93.9	ug/L	80 - 120
	Potassium	3000	3021	101	ug/L	80 - 120
	Sodium	3000	3067	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1067002

Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06703-CRL1	Calcium	5000	4932	98.6	ug/L	80 - 120
	Iron (dissolved)	100.0	103.8	104	ug/L	80 - 120
	Lead	3.000	2.640	88.0	ug/L	80 - 120
	Magnesium	5000	4722	94.4	ug/L	80 - 120
	Manganese (dissolved)	15.00	15.88	106	ug/L	80 - 120
	Potassium	5000	4926	98.5	ug/L	80 - 120
	Sodium	5000	4992	99.8	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06501
Calibration: 1065001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06501-ICB1	Calcium	2.110	1000	5000	ug/L	U	SW6010B
	Lead	0.05207	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.8700	1000	5000	ug/L	U	SW6010B
	Potassium	-2.880	1000	5000	ug/L	U	SW6010B
	Sodium	15.87	1000	5000	ug/L	U	SW6010B
1C06501-CCB1	Calcium	4.33	1000	5000	ug/L	U	SW6010B
	Lead	-0.498	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.86	1000	5000	ug/L	U	SW6010B
	Potassium	5.60	1000	5000	ug/L	U	SW6010B
	Sodium	13.6	1000	5000	ug/L	U	SW6010B
1C02002-BLK1	Calcium	7.29	1000	5000	ug/L	U	SW6010B
	Lead	-0.221	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.29	1000	5000	ug/L	U	SW6010B
	Potassium	6.72	1000	5000	ug/L	U	SW6010B
	Sodium	15.2	1000	5000	ug/L	U	SW6010B
1C06501-CCB2	Calcium	4.75	1000	5000	ug/L	U	SW6010B
	Lead	-0.120	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.96	1000	5000	ug/L	U	SW6010B
	Potassium	4.74	1000	5000	ug/L	U	SW6010B
	Sodium	16.2	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06703
Calibration: 1067002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06703-ICB1	Calcium	23.25	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	4.567	30.0	100	ug/L	U	SW6010B
	Lead	-0.05011	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.08	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.1989	3.00	15.0	ug/L	U	SW6010B
	Potassium	10.93	1000	5000	ug/L	U	SW6010B
	Sodium	12.65	1000	5000	ug/L	U	SW6010B
1C06703-CCB1	Calcium	9.77	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.725	30.0	100	ug/L	U	SW6010B
	Lead	-0.213	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.01	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0826	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.37	1000	5000	ug/L	U	SW6010B
	Sodium	-2.72	1000	5000	ug/L	U	SW6010B
1C06703-CCB4	Calcium	5.19	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.23	30.0	100	ug/L	U	SW6010B
	Lead	0.0529	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.390	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.170	3.00	15.0	ug/L	U	SW6010B
	Potassium	0.850	1000	5000	ug/L	U	SW6010B
	Sodium	-8.55	1000	5000	ug/L	U	SW6010B
1C04002-BLK1	Calcium	10.6	1000	5000	ug/L	U	SW6010B
	Lead	-0.587	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.770	1000	5000	ug/L	U	SW6010B
	Potassium	-3.32	1000	5000	ug/L	U	SW6010B
	Sodium	-5.97	1000	5000	ug/L	U	SW6010B
1C06703-CCB5	Calcium	6.08	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.886	30.0	100	ug/L	U	SW6010B
	Lead	0.966	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.10	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0914	3.00	15.0	ug/L	U	SW6010B
	Potassium	-12.1	1000	5000	ug/L	U	SW6010B
	Sodium	-7.04	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06703
Calibration: 1067002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06703-CCB6	Calcium	2.61	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.642	30.0	100	ug/L	U	SW6010B
	Lead	-0.139	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.27	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0931	3.00	15.0	ug/L	U	SW6010B
	Potassium	-11.7	1000	5000	ug/L	U	SW6010B
	Sodium	-21.9	1000	5000	ug/L	U	SW6010B
1C07004-BLK1	Iron (dissolved)	-1.43	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0343	3.00	15.0	ug/L	U	SW6010B
1C06703-CCB7	Calcium	2.01	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.03	30.0	100	ug/L	U	SW6010B
	Lead	-0.554	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.85	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0817	3.00	15.0	ug/L	U	SW6010B
	Potassium	-23.1	1000	5000	ug/L	U	SW6010B
	Sodium	-19.9	1000	5000	ug/L	U	SW6010B
1C06703-CCB8	Calcium	1.78	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.04	30.0	100	ug/L	U	SW6010B
	Lead	-0.312	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-6.43	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.00280	3.00	15.0	ug/L	U	SW6010B
	Potassium	-20.2	1000	5000	ug/L	U	SW6010B
	Sodium	-18.4	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1065001
Sequence: 1C06501

Lab Sample ID	Analyte	True	Found	%R	Units
1C06501-IFA1	Calcium	500000	490,910.00	98.2	ug/L
	Lead		4.17		ug/L
	Magnesium	500000	502,330.00	100	ug/L
	Potassium		-72.98		ug/L
	Sodium		37.03		ug/L
1C06501-IFB1	Calcium	500000	458,140.00	91.6	ug/L
	Lead	50.00	55.53	111	ug/L
	Magnesium	500000	464,220.00	92.8	ug/L
	Potassium		-54.43		ug/L
	Sodium		53.72		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units
1C06703-IFA1	Calcium	500000	483,660.00	96.7	ug/L
	Iron (dissolved)	200000	192,940.00	96.5	ug/L
	Lead		10.82		ug/L
	Magnesium	500000	500,760.00	100	ug/L
	Manganese (dissolved)		3.96		ug/L
	Potassium		-54.97		ug/L
	Sodium		9.32		ug/L
1C06703-IFB1	Calcium	500000	450,230.00	90.0	ug/L
	Iron (dissolved)	200000	179,940.00	90.0	ug/L
	Lead	50.00	55.86	112	ug/L
	Magnesium	500000	467,170.00	93.4	ug/L
	Manganese (dissolved)	500.0	449.65	89.9	ug/L
	Potassium		-34.38		ug/L
	Sodium		35.68		ug/L
1C06703-IFB2	Calcium	500000	441,210.00	88.2	ug/L
	Iron (dissolved)	200000	175,790.00	87.9	ug/L
	Lead	50.00	54.16	108	ug/L
	Magnesium	500000	456,050.00	91.2	ug/L
	Manganese (dissolved)	500.0	437.04	87.4	ug/L
	Potassium		-23.72		ug/L
	Sodium		45.24		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1C04002

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	80610	85700	102		80 - 120
Lead	250.0	ND	224.3	89.7		80 - 120
Magnesium	5000	10620	15320	94.1		80 - 120
Potassium	5000	3039	8249	104		80 - 120
Sodium	5000	35320	41470	123		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	86170	111	0.546		20	80 - 120
Lead	250.0	224.2	89.7	0.0758		20	80 - 120
Magnesium	5000	15330	94.3	0.0522		20	80 - 120
Potassium	5000	8078	101	2.10		20	80 - 120
Sodium	5000	40880	111	1.43		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1C07004

% Solids:

Source Sample Name: **1102166-02**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	143.2	1201	106		80 - 120
Manganese (dissolved)	500.0	1103	1570	93.3		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1193	105	0.710		20	80 - 120
Manganese (dissolved)	500.0	1553	89.9	1.08		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1C04002-PS1
Batch: 1C04002
Lab Source ID: 1102166-01
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	85950	80610	5000	107	80 - 120
Lead	230.9	ND	250.0	92.7	80 - 120
Magnesium	15320	10620	5000	94.1	80 - 120
Potassium	8209	3039	5000	103	80 - 120
Sodium	41150	35320	5000	117	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C02002	Laboratory ID:	1C02002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5005	100	80 - 120
Lead	250.0	255.0	102	80 - 120
Magnesium	5000	4696	93.9	80 - 120
Potassium	5000	5155	103	80 - 120
Sodium	5000	5229	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C04002	Laboratory ID:	1C04002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5132	103	80 - 120
Lead	250.0	238.4	95.4	80 - 120
Magnesium	5000	4639	92.8	80 - 120
Potassium	5000	4774	95.5	80 - 120
Sodium	5000	5155	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C07004	Laboratory ID:	1C07004-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1094	109	80 - 120
Manganese (dissolved)	500.0	489.1	97.8	80 - 120

SERIAL DILUTION

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1C06703
Preparation: MET_3005A

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1C04002-DUP1
Lab Source ID: 1102166-01
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	80609	81865	1.56		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	10619	10633	0.132		SW6010B	10.00
Potassium	3038.9	ND			SW6010B	10.00
Sodium	35323	33884	-4.08		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1C06703
Preparation: MET_3005A

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1C07004-DUP1
Lab Source ID: 1102166-02
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	143.2	154.08	7.6		SW6010B	10.00
Manganese (dissolved)	1103.2	1191.3	7.99		SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_004

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C02002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	03/02/11 08:35	50.00	50.00
GW0020	1102135-03	03/02/11 08:35	50.00	50.00
GW0021	1102135-05	03/02/11 08:35	50.00	50.00
GW0022	1102141-01	03/02/11 08:35	50.00	50.00
GW8002-RB	1102141-04	03/02/11 08:35	50.00	50.00
Blank	1C02002-BLK1	03/02/11 08:35	50.00	50.00
LCS	1C02002-BS1	03/02/11 08:35	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C04002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	03/04/11 08:22	50.00	50.00
GW0031	1102166-03	03/04/11 08:22	50.00	50.00
GW0010	1102174-01	03/04/11 08:22	50.00	50.00
GW0015	1102174-03	03/04/11 08:22	50.00	50.00
GW0036	1102174-05	03/04/11 08:22	50.00	50.00
GW0037	1102174-07	03/04/11 08:22	50.00	50.00
GW0038	1102174-09	03/04/11 08:22	50.00	50.00
GW0009	1102179-01	03/04/11 08:22	50.00	50.00
Blank	1C04002-BLK1	03/04/11 08:22	50.00	50.00
LCS	1C04002-BS1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-DUP1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-MS1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-MSD1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-PS1	03/04/11 08:22	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C07004 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-02	03/07/11 08:41	50.00	50.00
GW0020	1102135-04	03/07/11 08:41	50.00	50.00
GW0021	1102135-06	03/07/11 08:41	50.00	50.00
GW8002-RB	1102141-05	03/07/11 08:41	50.00	50.00
GW0022	1102141-06	03/07/11 08:41	50.00	50.00
GW0011	1102166-02	03/07/11 08:41	50.00	50.00
GW0031	1102166-04	03/07/11 08:41	50.00	50.00
GW0010	1102174-02	03/07/11 08:41	50.00	50.00
GW0015	1102174-04	03/07/11 08:41	50.00	50.00
GW0036	1102174-06	03/07/11 08:41	50.00	50.00
GW0037	1102174-08	03/07/11 08:41	50.00	50.00
GW0038	1102174-10	03/07/11 08:41	50.00	50.00
GW0009	1102179-02	03/07/11 08:41	50.00	50.00
Blank	1C07004-BLK1	03/07/11 08:41	50.00	50.00
LCS	1C07004-BS1	03/07/11 08:41	50.00	50.00
GW0011	1C07004-DUP1	03/07/11 08:41	50.00	50.00
GW0011	1C07004-MS1	03/07/11 08:41	50.00	50.00
GW0011	1C07004-MSD1	03/07/11 08:41	20.00	20.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06501	Instrument:	ME-ICP
Calibration:	1065001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06501-CAL1	030411A-001	03/04/11 09:47
Cal Standard	1C06501-CAL2	030411A-002	03/04/11 09:52
Cal Standard	1C06501-CAL3	030411A-003	03/04/11 09:57
Cal Standard	1C06501-CAL5	030411A-005	03/04/11 10:06
Cal Standard	1C06501-CAL6	030411A-006	03/04/11 10:17
Cal Standard	1C06501-CAL7	030411A-007	03/04/11 10:22
Cal Standard	1C06501-CAL8	030411A-008	03/04/11 10:33
Initial Cal Check	1C06501-ICV1	030411B-001	03/04/11 11:07
Initial Cal Blank	1C06501-ICB1	030411B-002	03/04/11 11:15
Instrument RL Check	1C06501-CRL1	030411B-003	03/04/11 11:19
Interference Check A	1C06501-IFA1	030411B-009	03/04/11 11:51
Interference Check B	1C06501-IFB1	030411B-010	03/04/11 11:56
Calibration Check	1C06501-CCV1	030411B-012	03/04/11 12:07
Calibration Blank	1C06501-CCB1	030411B-013	03/04/11 12:14
Blank	1C02002-BLK1	030411B-016	03/04/11 12:29
LCS	1C02002-BS1	030411B-017	03/04/11 12:33
GW0019	1102135-01	030411B-018	03/04/11 12:40
GW0020	1102135-03	030411B-019	03/04/11 12:44
GW0021	1102135-05	030411B-020	03/04/11 12:49
GW0022	1102141-01	030411B-021	03/04/11 12:53
GW8002-RB	1102141-04	030411B-022	03/04/11 12:58
Calibration Check	1C06501-CCV2	030411B-028	03/04/11 13:27
Calibration Blank	1C06501-CCB2	030411B-029	03/04/11 13:34

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06703-CAL1	030711A-001	03/07/11 12:13
Cal Standard	1C06703-CAL1	030711A-001	03/07/11 12:13
Cal Standard	1C06703-CAL2	030711A-002	03/07/11 12:17
Cal Standard	1C06703-CAL2	030711A-002	03/07/11 12:17
Cal Standard	1C06703-CAL3	030711A-003	03/07/11 12:22
Cal Standard	1C06703-CAL3	030711A-003	03/07/11 12:22
Cal Standard	1C06703-CAL4	030711A-004	03/07/11 12:27
Cal Standard	1C06703-CAL5	030711A-005	03/07/11 12:31
Cal Standard	1C06703-CAL5	030711A-005	03/07/11 12:31
Cal Standard	1C06703-CAL6	030711A-006	03/07/11 12:36
Cal Standard	1C06703-CAL6	030711A-006	03/07/11 12:36
Cal Standard	1C06703-CAL7	030711A-007	03/07/11 12:41
Cal Standard	1C06703-CAL8	030711A-008	03/07/11 12:46
Initial Cal Check	1C06703-ICV1	030711B-001	03/07/11 13:30
Initial Cal Check	1C06703-ICV1	030711B-001	03/07/11 13:30
Initial Cal Blank	1C06703-ICB1	030711B-002	03/07/11 13:38
Initial Cal Blank	1C06703-ICB1	030711B-002	03/07/11 13:38
Instrument RL Check	1C06703-CRL1	030711B-004	03/07/11 13:48
Instrument RL Check	1C06703-CRL1	030711B-004	03/07/11 13:48
Interference Check A	1C06703-IFA1	030711B-012	03/07/11 14:34
Interference Check A	1C06703-IFA1	030711B-012	03/07/11 14:34
Interference Check B	1C06703-IFB1	030711B-013	03/07/11 14:39
Interference Check B	1C06703-IFB1	030711B-013	03/07/11 14:39
Interference Check B	1C06703-IFB2	030711B-014	03/07/11 14:46
Interference Check B	1C06703-IFB2	030711B-014	03/07/11 14:46
Calibration Check	1C06703-CCV1	030711B-016	03/07/11 14:57
Calibration Check	1C06703-CCV1	030711B-016	03/07/11 14:57
Calibration Blank	1C06703-CCB1	030711B-017	03/07/11 15:04
Calibration Blank	1C06703-CCB1	030711B-017	03/07/11 15:04
Calibration Check	1C06703-CCV4	030711B-066	03/07/11 19:03
Calibration Check	1C06703-CCV4	030711B-066	03/07/11 19:03
Calibration Blank	1C06703-CCB4	030711B-067	03/07/11 19:11

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1C06703-CCB4	030711B-067	03/07/11 19:11
Blank	1C04002-BLK1	030711B-068	03/07/11 19:15
LCS	1C04002-BS1	030711B-069	03/07/11 19:20
Calibration Check	1C06703-CCV5	030711B-080	03/07/11 20:14
Calibration Check	1C06703-CCV5	030711B-080	03/07/11 20:14
Calibration Blank	1C06703-CCB5	030711B-081	03/07/11 20:21
Calibration Blank	1C06703-CCB5	030711B-081	03/07/11 20:21
GW0011	1102166-01	030711B-082	03/07/11 20:26
GW0011	1C04002-MS1	030711B-083	03/07/11 20:31
GW0011	1C04002-MSD1	030711B-084	03/07/11 20:35
GW0011	1C04002-PS1	030711B-085	03/07/11 20:39
GW0011	1C04002-DUP1	030711B-086	03/07/11 20:45
GW0031	1102166-03	030711B-087	03/07/11 20:49
GW0010	1102174-01	030711B-088	03/07/11 20:54
GW0015	1102174-03	030711B-089	03/07/11 20:59
GW0036	1102174-05	030711B-090	03/07/11 21:03
GW0037	1102174-07	030711B-091	03/07/11 21:08
GW0038	1102174-09	030711B-092	03/07/11 21:13
GW0009	1102179-01	030711B-093	03/07/11 21:17
Calibration Check	1C06703-CCV6	030711B-096	03/07/11 21:32
Calibration Check	1C06703-CCV6	030711B-096	03/07/11 21:32
Calibration Blank	1C06703-CCB6	030711B-097	03/07/11 21:39
Calibration Blank	1C06703-CCB6	030711B-097	03/07/11 21:39
Blank	1C07004-BLK1	030711B-098	03/07/11 21:44
LCS	1C07004-BS1	030711B-099	03/07/11 21:49
GW0019	1102135-02	030711B-100	03/07/11 21:55
GW0020	1102135-04	030711B-101	03/07/11 22:00
GW0021	1102135-06	030711B-102	03/07/11 22:04
GW8002-RB	1102141-05	030711B-103	03/07/11 22:09
GW0022	1102141-06	030711B-104	03/07/11 22:14
GW0011	1102166-02	030711B-105	03/07/11 22:18
GW0011	1C07004-MS1	030711B-106	03/07/11 22:23

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0011	1C07004-MSD1	030711B-107	03/07/11 22:27
GW0011	1C07004-DUP1	030711B-108	03/07/11 22:33
GW0031	1102166-04	030711B-109	03/07/11 22:37
GW0010	1102174-02	030711B-110	03/07/11 22:42
GW0015	1102174-04	030711B-111	03/07/11 22:47
GW0036	1102174-06	030711B-112	03/07/11 22:51
Calibration Check	1C06703-CCV7	030711B-113	03/07/11 22:57
Calibration Check	1C06703-CCV7	030711B-113	03/07/11 22:57
Calibration Blank	1C06703-CCB7	030711B-114	03/07/11 23:04
Calibration Blank	1C06703-CCB7	030711B-114	03/07/11 23:04
GW0037	1102174-08	030711B-115	03/07/11 23:09
GW0038	1102174-10	030711B-116	03/07/11 23:14
GW0009	1102179-02	030711B-117	03/07/11 23:18
Calibration Check	1C06703-CCV8	030711B-124	03/07/11 23:52
Calibration Check	1C06703-CCV8	030711B-124	03/07/11 23:52
Calibration Blank	1C06703-CCB8	030711B-125	03/07/11 23:59
Calibration Blank	1C06703-CCB8	030711B-125	03/07/11 23:59

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1065001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/4/2011 5:03:42PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.8646E-05	10000	1.8548E-05			500000	1.88082E-05		
Antimony	0	0	100	0.0008477	1000	9.3468E-04					10000	0.0008914
Arsenic	0	0	100	0.0003444	1000	3.7701E-04					10000	3.6742E-04
Barium	0	0	50	0.0132866	1000	0.012954	5000	0.0124574				
Beryllium	0	0	100	0.0021893	1000	0.0022015					10000	0.0020894
Boron	0	0	50	0.0000104	1000	1.112E-05					5000	1.1044E-05
Cadmium	0	0	100	0.010022	1000	0.01023					10000	0.0094732
Calcium	0	0	1100	3.059091E-05	50000	2.9798E-05					10000	
Chromium	0	0	100	0.0000268	1000	2.647E-05					10000	2.6352E-05
Cobalt	0	0	100	0.0061987	1000	0.0063478					10000	0.0061785
Copper	0	0	100	0.000086	1000	8.291E-05					10000	7.9968E-05
Iron	0	0	5100	1.398431E-05	10000	1.3205E-05			500000	1.26646E-05	10000	
Lead	0	0	100	0.0013542	1000	0.0013656					10000	0.0013353
Magnesium	0	0	5100		50000	1.3482E-06			500000	1.41838E-06	10000	
Manganese	0	0	100	0.0001863	1000	1.8115E-04	10000	1.7311E-04			10000	
Molybdenum	0	0	100	0.00448	1000	0.0047235					10000	0.0046128
Nickel	0	0	100	0.0034339	1000	0.0033907					10000	0.0033466
Potassium	0	0	1000	8.720001E-06	10000	9.574999E-06						
Selenium	0	0	100	0.0004483	1000	4.7213E-04					10000	4.4985E-04
Silver	0	0	20	0.000048	500	4.528E-05	2000	4.659E-05				
Sodium	0	0	1000		50000	4.2574E-05						
Strontium	0	0	100	0.001541	1000	0.001532					10000	0.001492
Thallium	0	0	100	0.0008051	1000	8.1409E-04					10000	8.1545E-04
Tin	0	0	50	0.0012344	1000	0.0012904					5000	1.27328E-03
Titanium	0	0	100	0.0001939	1000	1.8981E-04					10000	1.8944E-04
Vanadium	0	0	100	0.0000357	1000	3.532E-05					10000	3.5287E-05
Zinc	0	0	100	0.0044036	1000	0.0045759					10000	0.0044099

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1065001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/4/2011 5:03:42PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.9604E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.3814E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0021E-05										
Selenium												
Silver												
Sodium	100000	4.2175E-05	500000	4.2804E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1065001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/4/2011 5:03:42PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.400055E-05	66.67107	16.31007	187.6103	0.9999999		0.998	
Antimony	6.68445E-04	66.87798	9.705485	184.6331	0.999973		0.998	
Arsenic	2.722075E-04	66.85594	15.86038	191.1988	0.999991		0.998	
Barium	0.0096745	66.75963	1.54154	138.5571	0.9999355		0.998	
Beryllium	1.62005E-03	66.73869	584.6727	199.5564	0.9999731		0.998	
Boron	8.141E-06	66.78462	15.85849	184.2656	0.999997		0.998	
Cadmium	0.0074313	66.80493	0.5602075	46.34734	0.999943		0.998	
Calcium	2.249823E-05	66.69366	3.175795	158.0088	0.9999996		0.998	
Chromium	1.99055E-05	66.67347	160.7787	198.124	0.9999998		0.998	
Cobalt	4.68125E-03	66.68617	3.799508	169.8847	0.9999927		0.998	
Copper	6.22195E-05	66.78407	1.153865	77.21289	0.9999898		0.998	
Iron	9.963478E-06	66.888	17.11486	190.2721	0.9999991		0.998	
Lead	1.013775E-03	66.67806	21.32041	195.0178	0.9999952		0.998	
Magnesium	1.036995E-06	66.72395	110.3708	199.5209	0.9999669		0.998	
Manganese	1.3514E-04	66.78754	9.526598	161.9792	0.999981		0.998	
Molybdenum	3.454075E-03	66.72893	9.377355	184.5709	0.9999936		0.998	
Nickel	0.0025428	66.6814	1.66548	135.0011	0.9999988		0.998	
Potassium	7.079E-06	67.10136	3.788785	136.579	0.9999885		0.998	
Selenium	3.4257E-04	66.74236	7.312383	170.5564	0.999977		0.998	
Silver	3.49675E-05	66.74229	4.35059	127.2073	0.9999417		0.998	
Sodium	3.188825E-05	66.67165	2.884698	105.1745	0.9999908		0.998	
Strontium	1.14125E-03	66.69278	8.9041	171.9615	0.9999934		0.998	
Thallium	6.0866E-04	66.67094	6.268483	174.8127	1		0.998	
Tin	9.4952E-04	66.71232	6.66803	178.8077	0.9999909		0.998	
Titanium	1.432875E-04	66.68158	4.537597	156.1651	1		0.998	
Vanadium	2.657675E-05	66.67039	2.59666	105.0725	1		0.998	
Zinc	3.34735E-03	66.70926	70.53496	198.4981	0.9999857		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.022E-05	10000	2.0346E-05			500000	2.037E-05		
Antimony	0	0	100	0.000882	1000	9.6457E-04					10000	9.5251E-04
Arsenic	0	0	100	0.000361	1000	3.9522E-04					10000	3.8586E-04
Barium	0	0	50	0.0130856	1000	0.01283	5000	0.012281				
Beryllium	0	0	100	0.0022492	1000	0.0022273					10000	0.0021656
Boron	0	0	50	0.0000122	1000	1.255E-05					5000	1.2474E-05
Cadmium	0	0	100	0.0099652	1000	0.010262					10000	0.0095616
Calcium	0	0	1100	3.249091E-05	50000	3.196E-05					10000	
Chromium	0	0	100	0.0000273	1000	2.628E-05					10000	2.7468E-05
Cobalt	0	0	100	0.0061859	1000	0.0063307					10000	0.0063759
Copper	0	0	100	0.0000952	1000	9.024E-05					10000	9.0412E-05
Iron	0	0	5100	1.420392E-05	10000	1.3718E-05			500000	1.3303E-05	10000	
Lead	0	0	100	0.0013551	1000	0.0013717					10000	0.001369
Magnesium	0	0	5100		50000	1.3934E-06			500000	1.46474E-06	10000	
Manganese	0	0	100	0.0001912	1000	1.8229E-04	10000	0.0001789			10000	
Molybdenum	0	0	100	0.0044855	1000	0.0047489					10000	0.0046516
Nickel	0	0	100	0.0033926	1000	0.003355					10000	0.0033356
Potassium	0	0	1000	1.083E-05	10000	1.1289E-05						
Selenium	0	0	100	0.0004622	1000	4.8144E-04					10000	4.6519E-04
Silver	0	0	20	0.00005	500	4.734E-05	2000	4.889E-05				
Sodium	0	0	1000		50000	4.9396E-05						
Strontium	0	0	100	0.001684	1000	0.001647					10000	0.001615
Thallium	0	0	100	0.0009286	1000	9.2969E-04					10000	9.3393E-04
Tin	0	0	50	0.001207	1000	0.001283					5000	1.28242E-03
Titanium	0	0	100	0.0002035	1000	1.9836E-04					10000	1.9936E-04
Vanadium	0	0	100	0.0000371	1000	3.593E-05					10000	3.7022E-05
Zinc	0	0	100	0.0041166	1000	0.0043305					10000	0.004249
Aluminum	0	0	5000	2.022E-05	10000	2.0346E-05			500000	2.037E-05		
Antimony	0	0	100	0.000882	1000	9.6457E-04					10000	9.5251E-04
Arsenic	0	0	100	0.000361	1000	3.9522E-04					10000	3.8586E-04
Barium	0	0	50	0.0130856	1000	0.01283	5000	0.012281				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0022492	1000	0.0022273					10000	0.0021656
Boron	0	0	50	0.0000122	1000	1.255E-05					5000	1.2474E-05
Cadmium	0	0	100	0.0099652	1000	0.010262					10000	0.0095616
Calcium	0	0	1100	3.249091E-05	50000	3.196E-05					10000	
Chromium	0	0	100	0.0000273	1000	2.628E-05					10000	2.7468E-05
Cobalt	0	0	100	0.0061859	1000	0.0063307					10000	0.0063759
Copper	0	0	100	0.0000952	1000	9.024E-05					10000	9.0412E-05
Iron	0	0	5100	1.420392E-05	10000	1.3718E-05			500000	1.3303E-05	10000	
Lead	0	0	100	0.0013551	1000	0.0013717					10000	0.001369
Magnesium	0	0	5100		50000	1.3934E-06			500000	1.46474E-06	10000	
Manganese	0	0	100	0.0001912	1000	1.8229E-04	10000	0.0001789			10000	
Molybdenum	0	0	100	0.0044855	1000	0.0047489					10000	0.0046516
Nickel	0	0	100	0.0033926	1000	0.003355					10000	0.0033356
Potassium	0	0	1000	1.083E-05	10000	1.1289E-05						
Selenium	0	0	100	0.0004622	1000	4.8144E-04					10000	4.6519E-04
Silver	0	0	20	0.00005	500	4.734E-05	2000	4.889E-05				
Sodium	0	0	1000		50000	4.9396E-05						
Strontium	0	0	100	0.001684	1000	0.001647					10000	0.001615
Thallium	0	0	100	0.0009286	1000	9.2969E-04					10000	9.3393E-04
Tin	0	0	50	0.001207	1000	0.001283					5000	1.28242E-03
Titanium	0	0	100	0.0002035	1000	1.9836E-04					10000	1.9936E-04
Vanadium	0	0	100	0.0000371	1000	3.593E-05					10000	3.7022E-05
Zinc	0	0	100	0.0041166	1000	0.0043305					10000	0.004249

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.1272E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.423E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1371E-05										
Selenium												
Silver												
Sodium	100000	4.8729E-05	500000	4.7802E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.1272E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.423E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1371E-05										
Selenium												
Silver												
Sodium	100000	4.8729E-05	500000	4.7802E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5234E-05	66.66807	13.34029	194.6196	1		0.998	
Antimony	6.9977E-04	66.86947	6.162305	174.6212	0.9999969		0.998	
Arsenic	2.8552E-04	66.85823	99.06558	198.5183	0.9999923		0.998	
Barium	9.54915E-03	66.75928	4.124868	183.6476	0.9999181		0.998	
Beryllium	1.660525E-03	66.70074	17.11528	194.5221	0.9999927		0.998	
Boron	9.306E-06	66.68623	8.492455	184.9034	0.9999982		0.998	
Cadmium	0.0074472	66.778	1.236732	94.55227	0.9999516		0.998	
Calcium	2.393073E-05	66.69926	4.202537	171.7484	0.9999953		0.998	
Chromium	2.0262E-05	66.71699	6.200052	177.5114	0.9999813		0.998	
Cobalt	4.723125E-03	66.68874	7.92734	185.5851	0.9999995		0.998	
Copper	6.8963E-05	66.74994	1.127863	107.2084	0.9999996		0.998	
Iron	1.030623E-05	66.76231	14.12288	193.1592	0.9999996		0.998	
Lead	1.02395E-03	66.67045	53.88325	197.5111	0.9999999		0.998	
Magnesium	1.070285E-06	66.72272	51.28272	198.7644	0.9999635		0.998	
Manganese	1.380975E-04	66.7724	4.433068	172.0152	0.9999971		0.998	
Molybdenum	0.0034715	66.74022	20.74087	192.4795	0.9999948		0.998	
Nickel	0.0025208	66.67327	0.952825	64.10861	0.9999999		0.998	
Potassium	8.3725E-06	66.72728	2.083405	141.2089	0.9999999		0.998	
Selenium	3.522075E-04	66.70986	3.071523	149.3154	0.9999885		0.998	
Silver	3.65575E-05	66.73342	7.175015	178.0332	0.9999256		0.998	
Sodium	3.648175E-05	66.69074	6.159653	166.6541	0.9999834		0.998	
Strontium	0.0012365	66.70565	3.758525	165.6724	0.9999966		0.998	
Thallium	6.98055E-04	66.66748	52.18687	196.1841	0.9999998		0.998	
Tin	9.43105E-04	66.77399	4.86132	155.1418	0.9999997		0.998	
Titanium	1.50305E-04	66.6831	6.37712	183.3968	0.9999996		0.998	
Vanadium	2.7513E-05	66.69493	3.366955	163.2452	0.9999909		0.998	
Zinc	3.174025E-03	66.72448	7.15359	177.8137	0.9999957		0.998	
Aluminum	1.5234E-05	66.66807	13.34029	194.6196	1		0.998	
Antimony	6.9977E-04	66.86947	6.162305	174.6212	0.9999969		0.998	
Arsenic	2.8552E-04	66.85823	99.06558	198.5183	0.9999923		0.998	
Barium	9.54915E-03	66.75928	4.124868	183.6476	0.9999181		0.998	
Beryllium	1.660525E-03	66.70074	17.11528	194.5221	0.9999927		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	9.306E-06	66.68623	8.492455	184.9034	0.9999982		0.998	
Cadmium	0.0074472	66.778	1.236732	94.55227	0.9999516		0.998	
Calcium	2.393073E-05	66.69926	4.202537	171.7484	0.9999953		0.998	
Chromium	2.0262E-05	66.71699	6.200052	177.5114	0.9999813		0.998	
Cobalt	4.723125E-03	66.68874	7.92734	185.5851	0.9999995		0.998	
Copper	6.8963E-05	66.74994	1.127863	107.2084	0.9999996		0.998	
Iron	1.030623E-05	66.76231	14.12288	193.1592	0.9999996		0.998	
Lead	1.02395E-03	66.67045	53.88325	197.5111	0.9999999		0.998	
Magnesium	1.070285E-06	66.72272	51.28272	198.7644	0.9999635		0.998	
Manganese	1.380975E-04	66.7724	4.433068	172.0152	0.9999971		0.998	
Molybdenum	0.0034715	66.74022	20.74087	192.4795	0.9999948		0.998	
Nickel	0.0025208	66.67327	0.952825	64.10861	0.9999999		0.998	
Potassium	8.3725E-06	66.72728	2.083405	141.2089	0.9999999		0.998	
Selenium	3.522075E-04	66.70986	3.071523	149.3154	0.9999885		0.998	
Silver	3.65575E-05	66.73342	7.175015	178.0332	0.9999256		0.998	
Sodium	3.648175E-05	66.69074	6.159653	166.6541	0.9999834		0.998	
Strontium	0.0012365	66.70565	3.758525	165.6724	0.9999966		0.998	
Thallium	6.98055E-04	66.66748	52.18687	196.1841	0.9999998		0.998	
Tin	9.43105E-04	66.77399	4.86132	155.1418	0.9999997		0.998	
Titanium	1.50305E-04	66.6831	6.37712	183.3968	0.9999996		0.998	
Vanadium	2.7513E-05	66.69493	3.366955	163.2452	0.9999909		0.998	
Zinc	3.174025E-03	66.72448	7.15359	177.8137	0.9999957		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01
Sampled:	02/14/11 16:45	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:33
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U	SM4500S2CF	1B21001	02/21/11 10:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	129	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	18.3	0.170	0.330	1.00	1	M	E300.0	1B15026	02/15/11 20:58
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B15026	02/15/11 20:58
14808-79-8	Sulfate as SO4	39.2	0.330	1.00	2.00	1		E300.0	1B15026	02/15/11 20:58

ANALYSIS DATA SHEET

GW0020

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-03
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:34
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1B21001	02/21/11 10:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	129	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	18.6	0.170	0.330	1.00	1	M	E300.0	1B15026	02/15/11 21:16
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B15026	02/15/11 21:16
14808-79-8	Sulfate as SO4	39.9	0.330	1.00	2.00	1		E300.0	1B15026	02/15/11 21:16

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05
Sampled:	02/14/11 11:17	Received:	02/15/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:35
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1B21001	02/21/11 10:12
10-09-3	Alkalinity, Bicarbonate (as CACO3)	127	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	10.5	0.170	0.330	1.00	1	M	E300.0	1B15026	02/15/11 21:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B15026	02/15/11 21:33
14808-79-8	Sulfate as SO4	33.0	0.330	1.00	2.00	1		E300.0	1B15026	02/15/11 21:33

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01
Sampled:	02/15/11 13:59	Received:	02/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:36
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1B21001	02/21/11 10:13
10-09-3	Alkalinity, Bicarbonate (as CACO3)	121	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	21.4	0.170	0.330	1.00	1	M	E300.0	1B16011	02/16/11 16:23
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N	0.244	0.0330	0.100	0.200	1		E300.0	1B16011	02/16/11 16:23
14808-79-8	Sulfate as SO4	61.5	0.330	1.00	2.00	1		E300.0	1B16011	02/16/11 16:23

ANALYSIS DATA SHEET

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 10:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-01
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:37
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B23014	02/23/11 14:06
10-09-3	Alkalinity, Bicarbonate (as CACO3)	138	1.00	1.00	1.00	1	N	SM2320B	1B22021	02/22/11 16:21
16887-00-6	Chloride	64.8	0.170	0.330	1.00	1	M	E300.0	1B17014	02/17/11 19:19
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22021	02/22/11 16:21
14797-55-8	Nitrate as N	0.0330	0.0330	0.100	0.200	1	J	E300.0	1B17014	02/17/11 19:19
14808-79-8	Sulfate as SO4	79.2	0.330	1.00	2.00	1		E300.0	1B17014	02/17/11 19:19

ANALYSIS DATA SHEET

GW0031

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 15:05
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-03
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:39
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	138	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 09:44
16887-00-6	Chloride	18.6	0.170	0.330	1.00	1	M	E300.0	1B17014	02/17/11 20:29
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 09:44
14797-55-8	Nitrate as N	0.0490	0.0330	0.100	0.200	1	J	E300.0	1B17014	02/17/11 20:29
14808-79-8	Sulfate as SO4	37.7	0.330	1.00	2.00	1		E300.0	1B17014	02/17/11 20:29

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01
Sampled:	02/17/11 14:56	Received:	02/18/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:40
18496-25-8	Sulfide		0.769	1.92	3.85	0.77	U N	SM4500S2CF	1B23014	02/23/11 14:10
10-09-3	Alkalinity, Bicarbonate (as CACO3)	141	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 09:52
16887-00-6	Chloride	50.2	0.170	0.330	0.500	1		E300.0	1B18017	02/18/11 16:15
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 09:52
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B18017	02/18/11 16:15
14808-79-8	Sulfate as SO4	14.9	0.330	1.00	2.00	1		E300.0	1B18017	02/18/11 16:15

ANALYSIS DATA SHEET

GW0015

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 11:10
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-03
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:41
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	170	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:18
16887-00-6	Chloride	14.1	0.170	0.330	0.500	1		E300.0	1B18017	02/18/11 17:25
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:18
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B18017	02/18/11 17:25
14808-79-8	Sulfate as SO4	33.9	0.330	1.00	2.00	1		E300.0	1B18017	02/18/11 17:25

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:18
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-05
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:42
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U N	SM4500S2CF	1B23014	02/23/11 14:13
10-09-3	Alkalinity, Bicarbonate (as CACO3)	96.0	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:36
16887-00-6	Chloride	46.7	0.170	0.330	0.500	1		E300.0	1B18017	02/19/11 14:37
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:36
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	H1 U	E300.0	1B18017	02/19/11 14:37
14808-79-8	Sulfate as SO4	33.3	0.330	1.00	2.00	1		E300.0	1B18017	02/19/11 14:37

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-07
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:43
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:14
10-09-3	Alkalinity, Bicarbonate (as CACO3)	95.2	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:41
16887-00-6	Chloride	57.6	0.170	0.330	0.500	1		E300.0	1B18017	02/19/11 14:55
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:41
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	H1 U	E300.0	1B18017	02/19/11 14:55
14808-79-8	Sulfate as SO4	34.1	0.330	1.00	2.00	1		E300.0	1B18017	02/19/11 14:55

ANALYSIS DATA SHEET

GW0038

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-09
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:46
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:14
10-09-3	Alkalinity, Bicarbonate (as CACO3)	96.8	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:49
16887-00-6	Chloride	57.5	0.170	0.330	0.500	1		E300.0	1B18017	02/19/11 15:12
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:49
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	H1 U	E300.0	1B18017	02/19/11 15:12
14808-79-8	Sulfate as SO4	34.1	0.330	1.00	2.00	1		E300.0	1B18017	02/19/11 15:12

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01
Sampled:	02/18/11 13:06	Received:	02/19/11 09:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:47
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B23014	02/23/11 14:15
10-09-3	Alkalinity, Bicarbonate (as CACO3)	202	1.00	1.00	1.00	1		SM2320B	1C02007	03/02/11 10:40
16887-00-6	Chloride	12.9	0.170	0.330	0.500	1		E300.0	1B19005	02/19/11 21:18
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C02007	03/02/11 10:40
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B19005	02/19/11 21:18
14808-79-8	Sulfate as SO4	25.9	0.330	1.00	2.00	1		E300.0	1B19005	02/19/11 21:18

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04712

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04712-CCV1	Chloride	25.00	26.25	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.547	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.11	108	mg/L	+/- 10.00%
1B04712-CCV2	Chloride	25.00	26.47	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.557	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.39	106	mg/L	+/- 10.00%
1B04712-CCV3	Chloride	25.00	26.54	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.557	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.26	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04816

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04816-CCV1	Chloride	25.00	26.72	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.585	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.62	106	mg/L	+/- 10.00%
1B04816-CCV2	Chloride	25.00	26.76	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.592	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.49	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B05512

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05512-CCV1	Chloride	25.00	26.75	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.589	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.11	108	mg/L	+/- 10.00%
1B05512-CCV2	Chloride	25.00	26.66	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.577	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.73	107	mg/L	+/- 10.00%
1B05512-CCV3	Chloride	25.00	26.57	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.579	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.35	105	mg/L	+/- 10.00%
1B05512-CCV4	Chloride	25.00	26.58	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.573	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.56	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1062002
Sequence: 1B05523

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05523-ICV1	Ammonia as N	2.000	2.119	106	mg/L	+/- 10.00%
1B05523-CCV1	Ammonia as N	2.000	2.077	104	mg/L	+/- 10.00%
1B05523-CCV2	Ammonia as N	2.000	2.060	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1C06707

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06707-CCV1	Chloride	25.00	26.74	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.569	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%
1C06707-CCV2	Chloride	25.00	26.77	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.584	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.56	106	mg/L	+/- 10.00%
1C06707-CCV3	Chloride	25.00	26.65	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.583	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%
1C06707-CCV4	Chloride	25.00	26.64	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.582	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.46	106	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04712

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04712-CRL1	Chloride	1.000	0.8790	87.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.09800	98.0	mg/L	75 - 125
1B04712-CRL2	Sulfate as SO4	1.000	1.050	105	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04816

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04816-CRL1	Chloride	1.000	0.9390	93.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.09800	98.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.092	109	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B05512

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05512-CRL1	Nitrate as N	0.05000	0.05200	104	mg/L	75 - 125
1B05512-CRL2	Chloride	1.000	0.9350	93.5	mg/L	75 - 125
1B05512-CRL3	Sulfate as SO4	1.000	1.077	108	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1C06707

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06707-CRL1	Chloride	0.5000	0.3990	79.8	mg/L	75 - 125
	Nitrate as N	0.05000	0.05100	102	mg/L	75 - 125
1C06707-CRL2	Sulfate as SO4	1.000	1.064	106	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B15026

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15026-BLK1	Chloride	0.131	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0970	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B16011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B16011-BLK1	Chloride	0.00200	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.101	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B17014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B17014-BLK1	Chloride	-0.0210	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0910	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B18017

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B18017-BLK1	Chloride	0.0290	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.117	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B19005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B19005-BLK1	Chloride	-0.0810	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0750	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B21001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B21001-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B22004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B22004-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B22021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B22021-BLK1	Alkalinity, Total (as CACO3)	0.408	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B23014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23014-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B23022

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23022-BLK1	Ammonia as N	-0.0281	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B23024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23024-BLK1	Alkalinity, Total (as CACO3)	0.408	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1C02007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C02007-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04712
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04712-CCB1	Chloride	0.0860	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.303	0.330	2.00	mg/L	U	E300.0
1B04712-CCB2	Chloride	0.119	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.112	0.330	2.00	mg/L	U	E300.0
1B04712-CCB3	Chloride	0.578	0.170	0.500	mg/L		E300.0
	Nitrate as N	0.0240	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.195	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04816
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04816-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.107	0.330	2.00	mg/L	U	E300.0
1B04816-CCB2	Chloride	-0.00300	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0950	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05512
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05512-CCB1	Chloride	-0.0340	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0980	0.330	2.00	mg/L	U	E300.0
1B05512-CCB2	Chloride	0.0200	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.107	0.330	2.00	mg/L	U	E300.0
1B05512-CCB3	Chloride	-0.0310	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.268	0.330	2.00	mg/L	U	E300.0
1B05512-CCB4	Chloride	-0.0730	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0910	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05523
Calibration: 1062002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05523-ICB1	Ammonia as N	-0.01509	0.110	0.300	mg/L	U	SM4500NH3BG
1B05523-CCB1	Ammonia as N	-0.0126	0.110	0.300	mg/L	U	SM4500NH3BG
1B05523-CCB2	Ammonia as N	-0.0102	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06707
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06707-CCB1	Chloride	0.0230	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.131	0.330	2.00	mg/L	U	E300.0
1C06707-CCB2	Chloride	-0.0620	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0840	0.330	2.00	mg/L	U	E300.0
1C06707-CCB3	Chloride	-0.0820	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0780	0.330	2.00	mg/L	U	E300.0
1C06707-CCB4	Chloride	-0.0760	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0810	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B17014

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	64.81	94.09	105		80 - 120
Nitrate as N	2.778	0.03300	2.858	102		80 - 120
Sulfate as SO4	27.78	79.25	107.8	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	94.21	106	0.131		20	80 - 120
Nitrate as N	2.778	2.866	102	0.272		20	80 - 120
Sulfate as SO4	27.78	107.8	103	0.00622		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0010

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B18017

% Solids:

Source Sample Name: **1102174-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	50.17	79.44	105		80 - 120
Nitrate as N	2.778	ND	2.804	101		80 - 120
Sulfate as SO4	27.78	14.93	43.57	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	79.52	106	0.101		20	80 - 120
Nitrate as N	2.778	2.804	101	0.00		20	80 - 120
Sulfate as SO4	27.78	43.58	103	0.0230		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22021

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	138.1	231.5	84.1		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	221.0	74.7	4.61	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B23014

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1267	ND	908.7	71.7	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1267	850.7	67.1	6.59	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B23022

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.147	82.9		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.158	83.2	0.265		20	75 - 125

GW0011

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B17014
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0011

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1B17014-DUP2
Lab Source ID: 1102166-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	64.8	64.52	0.442		E300.0
Nitrate as N	20	0.0330 J	0.200 J	5.88		E300.0
Sulfate as SO4	20	79.2	79.26	0.0151		E300.0

GW0010

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B18017
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0010

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1B18017-DUP1
Lab Source ID: 1102174-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	50.2	50.02	0.307		E300.0
Nitrate as N	20	0.200 U	0.200 U			E300.0
Sulfate as SO4	20	14.9	14.90	0.174		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15026	Laboratory ID:	1B15026-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.262	110	90 - 110
Nitrate as N	3.616	3.725	103	90 - 110
Sulfate as SO4	24.00	25.65	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B16011	Laboratory ID:	1B16011-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.266	110	90 - 110
Nitrate as N	3.616	3.705	102	90 - 110
Sulfate as SO4	24.00	25.42	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17014	Laboratory ID:	1B17014-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.870	101	90 - 110
Nitrate as N	3.616	3.652	101	90 - 110
Sulfate as SO4	24.00	24.99	104	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18017	Laboratory ID:	1B18017-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.888	102	90 - 110
Nitrate as N	3.616	3.682	102	90 - 110
Sulfate as SO4	24.00	25.21	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B19005	Laboratory ID:	1B19005-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.853	101	90 - 110
Nitrate as N	3.616	3.645	101	90 - 110
Sulfate as SO4	24.00	25.09	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21001	Laboratory ID:	1B21001-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1083	82.9	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	1083	82.9	0.00	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22004	Laboratory ID:	1B22004-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	202.2	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22021	Laboratory ID:	1B22021-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	208.3	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23014	Laboratory ID:	1B23014-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1267	1033	81.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23022	Laboratory ID:	1B23022-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.337	86.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23024	Laboratory ID:	1B23024-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	198.1	99.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C02007	Laboratory ID:	1C02007-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1072	107	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15026 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/15/11 17:08	5.00	5.00
GW0019	1102135-01	02/15/11 17:08	5.00	5.00
GW0020	1102135-03	02/15/11 17:08	5.00	5.00
GW0020	1102135-03	02/15/11 17:08	5.00	5.00
GW0021	1102135-05	02/15/11 17:08	5.00	5.00
GW0021	1102135-05	02/15/11 17:08	5.00	5.00
Blank	1B15026-BLK1	02/15/11 17:08	5.00	5.00
LCS	1B15026-BS1	02/15/11 17:08	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B16011 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0022	1102141-01	02/16/11 14:01	5.00	5.00
GW0022	1102141-01	02/16/11 14:01	5.00	5.00
Blank	1B16011-BLK1	02/16/11 14:01	5.00	5.00
LCS	1B16011-BS1	02/16/11 14:01	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B17014 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/17/11 14:01	5.00	5.00
GW0011	1102166-01	02/17/11 14:01	5.00	5.00
GW0031	1102166-03	02/17/11 14:01	5.00	5.00
GW0031	1102166-03	02/17/11 14:01	5.00	5.00
Blank	1B17014-BLK1	02/17/11 14:11	5.00	5.00
LCS	1B17014-BS1	02/17/11 14:11	5.00	5.00
GW0011	1B17014-DUP2	02/17/11 14:11	5.00	5.00
GW0011	1B17014-MS2	02/17/11 14:11	22.50	25.00
GW0011	1B17014-MSD2	02/17/11 14:11	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18017 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0010	1102174-01	02/18/11 13:25	5.00	5.00
GW0010	1102174-01	02/18/11 13:25	5.00	5.00
GW0015	1102174-03	02/18/11 13:25	5.00	5.00
GW0015	1102174-03	02/18/11 13:25	5.00	5.00
GW0036	1102174-05	02/18/11 13:25	5.00	5.00
GW0036	1102174-05	02/18/11 13:25	5.00	5.00
GW0037	1102174-07	02/18/11 13:25	5.00	5.00
GW0037	1102174-07	02/18/11 13:25	5.00	5.00
GW0038	1102174-09	02/18/11 13:25	5.00	5.00
GW0038	1102174-09	02/18/11 13:25	5.00	5.00
Blank	1B18017-BLK1	02/18/11 13:25	5.00	5.00
LCS	1B18017-BS1	02/18/11 13:25	5.00	5.00
GW0010	1B18017-DUP1	02/18/11 13:25	5.00	5.00
GW0010	1B18017-MS1	02/18/11 13:25	22.50	25.00
GW0010	1B18017-MSD1	02/18/11 13:25	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B19005 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	02/19/11 14:33	5.00	5.00
GW0009	1102179-01	02/19/11 14:33	5.00	5.00
Blank	1B19005-BLK1	02/19/11 14:33	5.00	5.00
LCS	1B19005-BS1	02/19/11 14:33	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B21001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/21/11 09:33	295.00	200.00
GW0020	1102135-03	02/21/11 09:33	290.00	200.00
GW0021	1102135-05	02/21/11 09:33	280.00	200.00
GW0022	1102141-01	02/21/11 09:33	280.00	200.00
Blank	1B21001-BLK1	02/21/11 09:33	250.00	200.00
LCS	1B21001-BS1	02/21/11 09:33	3.00	250.00
LCS Dup	1B21001-BSD1	02/21/11 09:33	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22004 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/22/11 09:02	25.00	25.00
GW0020	1102135-03	02/22/11 09:02	25.00	25.00
GW0021	1102135-05	02/22/11 09:02	25.00	25.00
GW0022	1102141-01	02/22/11 09:02	25.00	25.00
Blank	1B22004-BLK1	02/22/11 09:02	25.00	25.00
LCS	1B22004-BS1	02/22/11 09:02	25.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/22/11 14:46	25.00	25.00
Blank	1B22021-BLK1	02/22/11 14:46	25.00	25.00
LCS	1B22021-BS1	02/22/11 14:46	25.00	25.00
GW0011	1B22021-MS1	02/22/11 14:46	22.50	25.00
GW0011	1B22021-MSD1	02/22/11 14:46	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/23/11 11:16	290.00	200.00
GW0031	1102166-03	02/23/11 11:16	270.00	200.00
GW0010	1102174-01	02/23/11 11:16	260.00	200.00
GW0015	1102174-03	02/23/11 11:16	270.00	200.00
GW0036	1102174-05	02/23/11 11:16	280.00	200.00
GW0037	1102174-07	02/23/11 11:16	270.00	200.00
GW0038	1102174-09	02/23/11 11:16	270.00	200.00
GW0009	1102179-01	02/23/11 11:16	290.00	200.00
Blank	1B23014-BLK1	02/23/11 11:16	250.00	200.00
LCS	1B23014-BS1	02/23/11 11:16	3.00	250.00
GW0011	1B23014-MS1	02/23/11 11:16	3.00	290.00
GW0011	1B23014-MSD1	02/23/11 11:16	3.00	290.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23022 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/23/11 16:00	100.00	100.00
GW0020	1102135-03	02/23/11 16:00	100.00	100.00
GW0021	1102135-05	02/23/11 16:00	100.00	100.00
GW0022	1102141-01	02/23/11 16:00	100.00	100.00
GW0011	1102166-01	02/23/11 16:00	100.00	100.00
GW0031	1102166-03	02/23/11 16:00	100.00	100.00
GW0010	1102174-01	02/23/11 16:00	100.00	100.00
GW0015	1102174-03	02/23/11 16:00	100.00	100.00
GW0036	1102174-05	02/23/11 16:00	100.00	100.00
GW0037	1102174-07	02/23/11 16:00	100.00	100.00
GW0038	1102174-09	02/23/11 16:00	100.00	100.00
GW0009	1102179-01	02/23/11 16:00	100.00	100.00
Blank	1B23022-BLK1	02/23/11 16:00	100.00	100.00
LCS	1B23022-BS1	02/23/11 16:00	100.00	100.00
GW0011	1B23022-MS1	02/23/11 16:00	100.00	100.00
GW0011	1B23022-MSD1	02/23/11 16:00	100.00	100.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23024 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0031	1102166-03	02/24/11 08:00	25.00	25.00
GW0010	1102174-01	02/24/11 08:00	25.00	25.00
GW0015	1102174-03	02/24/11 08:00	25.00	25.00
GW0036	1102174-05	02/24/11 08:00	25.00	25.00
GW0037	1102174-07	02/24/11 08:00	25.00	25.00
GW0038	1102174-09	02/24/11 08:00	25.00	25.00
Blank	1B23024-BLK1	02/24/11 08:00	25.00	25.00
LCS	1B23024-BS1	02/24/11 08:00	25.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C02007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	03/02/11 08:52	25.00	25.00
Blank	1C02007-BLK1	03/02/11 08:52	25.00	25.00
LCS	1C02007-BS1	03/02/11 08:52	5.00	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1B22004-BS1	022211A-003	02/22/11 10:54
Blank	1B22004-BLK1	022211A-004	02/22/11 10:54
Blank	1B22021-BLK1	022211B-004	02/22/11 15:37
LCS	1B22021-BS1	022211B-003	02/22/11 15:41
GW0011	1B22021-MS1	022211B-012	02/22/11 15:51
GW0011	1B22021-MSD1	022211B-013	02/22/11 16:02
Blank	1B23024-BLK1	022411A-004	02/24/11 09:05
LCS	1B23024-BS1	022411A-003	02/24/11 09:09
Blank	1C02007-BLK1	030211A-004	03/02/11 09:50
LCS	1C02007-BS1	030211A-003	03/02/11 09:57

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B21001-BLK1	022111-004	02/21/11 10:16
LCS	1B21001-BS1	022111-002	02/21/11 10:21
LCS Dup	1B21001-BSD1	022111-003	02/21/11 10:22
Blank	1B23014-BLK1	022311-003	02/23/11 14:05
GW0011	1B23014-MS1	022311-022	02/23/11 14:19
GW0011	1B23014-MSD1	022311-023	02/23/11 14:20
LCS	1B23014-BS1	022311-002	02/23/11 14:20

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0J29503	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04712	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04712-CCV1	021511-002	02/15/11 19:31
Calibration Blank	1B04712-CCB1	021511-003	02/15/11 19:49
Instrument RL Check	1B04712-CRL1	021511-004	02/15/11 20:06
LCS	1B15026-BS1	021511-005	02/15/11 20:23
Blank	1B15026-BLK1	021511-006	02/15/11 20:41
GW0019	1102135-01	021511-007	02/15/11 20:58
GW0020	1102135-03	021511-008	02/15/11 21:16
GW0021	1102135-05	021511-009	02/15/11 21:33
Calibration Check	1B04712-CCV2	021511-020	02/16/11 00:44
Calibration Blank	1B04712-CCB2	021511-021	02/16/11 01:02
Instrument RL Check	1B04712-CRL2	021511-035	02/16/11 05:06
Calibration Check	1B04712-CCV3	021511-036	02/16/11 05:23
Calibration Blank	1B04712-CCB3	021511-037	02/16/11 05:40

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04816	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04816-CCV1	021611-002	02/16/11 14:56
Calibration Blank	1B04816-CCB1	021611-003	02/16/11 15:13
Instrument RL Check	1B04816-CRL1	021611-004	02/16/11 15:31
LCS	1B16011-BS1	021611-005	02/16/11 15:48
Blank	1B16011-BLK1	021611-006	02/16/11 16:06
GW0022	1102141-01	021611-007	02/16/11 16:23
Calibration Check	1B04816-CCV2	021611-014	02/16/11 18:25
Calibration Blank	1B04816-CCB2	021611-015	02/16/11 18:42

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05512	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05512-CCV1	021711-002	02/17/11 14:58
Calibration Blank	1B05512-CCB1	021711-003	02/17/11 15:15
Instrument RL Check	1B05512-CRL1	021711-004	02/17/11 15:33
Instrument RL Check	1B05512-CRL2	021711-005	02/17/11 15:50
LCS	1B17014-BS1	021711-006	02/17/11 16:07
Blank	1B17014-BLK1	021711-007	02/17/11 16:25
Calibration Check	1B05512-CCV2	021711-015	02/17/11 18:44
Calibration Blank	1B05512-CCB2	021711-016	02/17/11 19:01
GW0011	1102166-01	021711-017	02/17/11 19:19
GW0011	1B17014-MS2	021711-018	02/17/11 19:36
GW0011	1B17014-MSD2	021711-019	02/17/11 19:54
GW0011	1B17014-DUP2	021711-020	02/17/11 20:11
GW0031	1102166-03	021711-021	02/17/11 20:29
Calibration Check	1B05512-CCV3	021711-027	02/17/11 22:13
Calibration Blank	1B05512-CCB3	021711-028	02/17/11 22:30
Instrument RL Check	1B05512-CRL3	021711-029	02/17/11 22:48
Calibration Check	1B05512-CCV4	021711-040	02/18/11 01:59
Calibration Blank	1B05512-CCB4	021711-041	02/18/11 02:17

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05523	Instrument:	WC-Lachat
Calibration:	1062002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05523-CAL1	M_2-24-2011_11-20-31AM-00	02/24/11 11:21
Cal Standard	1B05523-CAL2	M_2-24-2011_11-20-31AM-00	02/24/11 11:22
Cal Standard	1B05523-CAL3	M_2-24-2011_11-20-31AM-00	02/24/11 11:23
Cal Standard	1B05523-CAL4	M_2-24-2011_11-20-31AM-00	02/24/11 11:24
Cal Standard	1B05523-CAL5	M_2-24-2011_11-20-31AM-00	02/24/11 11:25
Cal Standard	1B05523-CAL6	M_2-24-2011_11-20-31AM-00	02/24/11 11:26
Cal Standard	1B05523-CAL7	M_2-24-2011_11-20-31AM-00	02/24/11 11:27
Cal Standard	1B05523-CAL8	M_2-24-2011_11-20-31AM-00	02/24/11 11:28
Initial Cal Check	1B05523-ICV1	M_2-24-2011_11-20-31AM-00	02/24/11 11:29
Initial Cal Blank	1B05523-ICB1	M_2-24-2011_11-20-31AM-01	02/24/11 11:30
Blank	1B23022-BLK1	M_2-24-2011_11-20-31AM-01	02/24/11 11:31
LCS	1B23022-BS1	M_2-24-2011_11-20-31AM-01	02/24/11 11:32
GW0019	1102135-01	M_2-24-2011_11-20-31AM-01	02/24/11 11:33
GW0020	1102135-03	M_2-24-2011_11-20-31AM-01	02/24/11 11:34
GW0021	1102135-05	M_2-24-2011_11-20-31AM-01	02/24/11 11:35
GW0022	1102141-01	M_2-24-2011_11-20-31AM-01	02/24/11 11:36
GW0011	1102166-01	M_2-24-2011_11-20-31AM-01	02/24/11 11:37
GW0011	1B23022-MSD1	M_2-24-2011_11-20-31AM-01	02/24/11 11:38
GW0011	1B23022-MS1	M_2-24-2011_11-20-31AM-01	02/24/11 11:38
GW0031	1102166-03	M_2-24-2011_11-20-31AM-02	02/24/11 11:39
GW0010	1102174-01	M_2-24-2011_11-20-31AM-02	02/24/11 11:40
GW0015	1102174-03	M_2-24-2011_11-20-31AM-02	02/24/11 11:41
GW0036	1102174-05	M_2-24-2011_11-20-31AM-02	02/24/11 11:42
GW0037	1102174-07	M_2-24-2011_11-20-31AM-02	02/24/11 11:43
Calibration Check	1B05523-CCV1	M_2-24-2011_11-20-31AM-02	02/24/11 11:44
Calibration Blank	1B05523-CCB1	M_2-24-2011_11-20-31AM-02	02/24/11 11:45
GW0038	1102174-09	M_2-24-2011_11-20-31AM-02	02/24/11 11:46
GW0009	1102179-01	M_2-24-2011_11-20-31AM-02	02/24/11 11:47
Calibration Check	1B05523-CCV2	M_2-24-2011_11-20-31AM-03	02/24/11 11:57
Calibration Blank	1B05523-CCB2	M_2-24-2011_11-20-31AM-03	02/24/11 11:58

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06707	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06707-CCV1	021811-002	02/18/11 14:30
Calibration Blank	1C06707-CCB1	021811-003	02/18/11 14:48
Instrument RL Check	1C06707-CRL1	021811-004	02/18/11 15:05
Instrument RL Check	1C06707-CRL2	021811-005	02/18/11 15:23
LCS	1B18017-BS1	021811-006	02/18/11 15:40
Blank	1B18017-BLK1	021811-007	02/18/11 15:57
GW0010	1102174-01	021811-008	02/18/11 16:15
GW0010	1B18017-MS1	021811-009	02/18/11 16:32
GW0010	1B18017-MSD1	021811-010	02/18/11 16:50
GW0010	1B18017-DUP1	021811-011	02/18/11 17:07
GW0015	1102174-03	021811-012	02/18/11 17:25
Calibration Check	1C06707-CCV2	021811-013	02/19/11 14:03
Calibration Blank	1C06707-CCB2	021811-014	02/19/11 14:20
GW0036	1102174-05	021811-015	02/19/11 14:37
GW0037	1102174-07	021811-016	02/19/11 14:55
GW0038	1102174-09	021811-017	02/19/11 15:12
Calibration Check	1C06707-CCV3	021811-027	02/19/11 18:06
Calibration Blank	1C06707-CCB3	021811-028	02/19/11 18:24
LCS	1B19005-BS1	021811-035	02/19/11 20:26
Blank	1B19005-BLK1	021811-036	02/19/11 20:43
GW0009	1102179-01	021811-038	02/19/11 21:18
Calibration Check	1C06707-CCV4	021811-041	02/19/11 22:10
Calibration Blank	1C06707-CCB4	021811-042	02/19/11 22:27