ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_010

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: April 22, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 533

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	31
6	Data for SW8270C BNA Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	171
7	Data for SW8015B GRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	278
8	Data for SW8015B DRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	312
9	Data for SW8011 EDB Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	350
10	Data for SW6010B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	382
11	Data for Wet Chemistry Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	438

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.

Due to an instrument malfunction combined with 48hr holding times, all samples submitted for Nitrate and Nitrite were analyzed for Nitrite by method SM4500NO2B with total nitrate/nitrite analyzed by EPA 353.2 from preserved sample aliquots and the nitrate results were calculated from those analyses.

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 samples 1104307-05 and -06.

The batch spike associated to batch 1D30002 exceeded criteria with a positive bias for

Chloroethane. The batch spike associated to batch 1E02009 exceeded criteria for Bromodichloromethane. The batch spike duplicate associated to batch 1E04009 exceeded criteria with a positive bias for Benzene.

The method blanks 1D30002-BLK1 and 1E04006-BLK1 have positive results for Hexachlorobutadiene. The method blank 1E04009-BLK1 has positive results for Naphthalene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene.

The continuing calibration verifications exceeded criteria in 1E12206-CCV1 with a positive bias for 2,2-Dichloropropane, 4-Methyl-2-pentanone, and Trichlorofluoromethane, in 1E12309-CCV1 with a positive bias for Bromodichloromethane, Bromomethane, Chloroethane, 1,2-Dichloroethane, and Trichlorofluoromethane, and in 1E12504-CCV1 with a negative bias for Bromomethane and Chloromethane and with a positive bias for 2,2-Dichloropropane.

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

SW8270C BNA:
The batch spike associated to batch 1D28006 exceeded recovery criteria with a positive bias for Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Butylbenzylphthalate, Bis(2-chloroethoxy)methane, Chrysene, Di-n-butylphthalate, Diethylphthalate, Di-n-octylphthalate, Bis(2-ethylhexyl)phthalate and with a negative bias for Caprolactam, Hexachlorobutadiene, and Hexachloroethane. The batch spikes associated to batch 1E02019 exceeded recovery criteria with a negative bias for Acenaphthylene, Caprolactam, Hexachlorobutadiene, Hexachloroethane, Isophorone, and N-nitrosodiphenylamine.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verifications exceeded criteria in 1E12404-CCV1 with a positive bias for 2-Chloronaphthalene and 2,4-Dinitrophenol, in 1E12603-CCV2 with a positive bias for Benzidine, iin 1E12801-CCV1 with a positive bias for Atrazine, Benzidine, 2-Chloronaphthalene, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, Hexachlorocyclopentadiene, 4-Nitroaniline, 2-Nitrophenol, Pentachlorophenol, Pyrene, 2,4,5-Trichlorophenolo, and Terphenyld-14 and with a negative bias for 2,2'-Oxybis-1-chloropropane and Indeno(1,2,3-cd)pyrene, and in 1E13313-CCV1 with a positive bias for Benzidine, 2-Chloronaphthalene, 2,4-Dinitrophenol, Hexachlorocyclopentadiene, 4-Nitroaniline, 2-Nitroaniline, 4-Nitrophenol, Pyrene, and Terphenyl-d14.

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

SW8015B GRO:
The batch spikes associated to batch 1E05029 exceeded the relative percent difference

criteria due to different spikes amount being used for the batch spike and batch spike duplicate and the RPD being calculated from the concentrations. If the RPD was calculated from the % recoveries, the RPD would be within control. No qualifier was applied to the data for this issue.

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

SW8015B DRO:
The continuing calibration verification 1E12913-CCV2 exceeded criteria with a positive bias for Diesel Range Organics.

The surrogate o-Terphenyl exceeded the retention time window in 1D28020-BLK1, 1104286-01, and 1104289-01. The result bias due to the retention time shift was determined to be negligible for all affected batch QC and samples.

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

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
The continuing calibration verification 1E13312-CCV6 exceeded criteria with a positive bias for Sodium.

The method blank 1E10013-BLK1 has a positive result for Iron (dissolved).

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

Wet Chemistry:
The method blank 1E05023-BLK1, initial calibration blank 1E14105-ICB1, and continuing calibration blanks 1E14105-CCB1, 1E14107-CCB1, -CCB2, -CCB3, and -CCB4 have positive results 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.

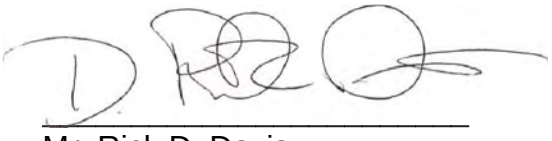
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible 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

Organic Calculations:

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg)} * \text{Expected Vol/Weight (mL or g)} * \text{Dilution}}{\text{Initial Vol/Weight (mL or g)} * \text{(Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL)} * \text{Final Vol (ml)} * \text{Dilution} *(1000\text{uL/mL})}{\text{Initial Vol/Weight (mL or g)} * \text{(Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g
= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL)} * \text{Final Vol (mL)} * \text{Dilution}}{\text{Initial Vol/Weight (mL or g)} * \text{(Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g
= ug/L or ug/kg

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW031

11

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

Samples Shipment Date: 26 APR 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884457

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 ✓ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 1644 Time: 4/26/11
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) [signature] Date: 4.27.11 Time: 0900
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

1104286

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-01 GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-01 GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

KIRTLAND_010 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW031

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01-	GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0061	KAFB-106020-GW-GW0061-REG	26 APR 2011	11:24	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
03 -	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
04-	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0062	KAFB-106021-GW-GW0062-REG	26 APR 2011	14:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-06	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0063	KAFB-106021-GW-GW0063-FD	26 APR 2011	14:54	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-07	GW8031-TB	FIELDQC-BW-GW8031-TB-TB	26 APR 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1104286 Number of Coolers: 1 of 2

Client: Shaw Project: Kirkland AFB

Date/Time Received: 4.27.11 0900 Date cooler(s) opened: 4.27.11

Opened By (print): Reginald Talley (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: 4457

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

How many: 1 Seal date: 4.26.11 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: 2.8 °C Correction Factor: -0.3 °C Final Value: 2.5 °C

Dates samples were logged-in: 4.27.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
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 level for all metals and ammonia was <2
Ph level for all sulfide samples was >9

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1104286 Number of Coolers: 2 of 2

Client: Shaw Project: Kirkland AFB

Date/Time Received: 4.27.11 0900 Date cooler(s) opened: 4.27.11

Opened By (print): Reginald Talley (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: 8230

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

How many: 1 Seal date: 4.26.11 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 2.3 °C Correction Factor: -0.3 °C Final Value 2.0 °C

Dates samples were logged-in: 4.27.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
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 Level For all metals and ammonia samples was <2
Ph Level For all sulfide samples was >9

WORK ORDER

Printed: 4/29/2011 11:08:10AM

1104286

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
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: 05/18/2011 16:00 (15 day TAT)

Received By: Reginald Talley
Date Received: 04/27/2011 09:00

Logged In By: Reginald Talley
Date Logged In: 04/27/2011 17:01

Samples Received at: **2.5°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1104286-01 GW0061 [Water] Sampled 04/26/2011 11:24 Central					
SM4500S2CF	WC_SULFIDE_4500S2CF	05/13/2011 14:00	15	05/03/2011 11:24	
SW8015B DRO	SGC_DRO_8015B_3510	05/13/2011 14:00	15	05/03/2011 11:24	
SW8011	SGC_EDB_8011	05/13/2011 14:00	15	05/10/2011 11:24	
SW8270C	SMS_BNA_8270C_3510_REG	05/13/2011 14:00	15	05/03/2011 11:24	
SW8015B GRO	VGC_GRO_8015B	05/13/2011 14:00	15	05/10/2011 11:24	
SW8260B	VOC_8260B_REG	05/13/2011 14:00	15	05/10/2011 11:24	
SM2320B	WC_ALKALINITY_2320B	05/13/2011 14:00	15	05/10/2011 11:24	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/13/2011 14:00	15	05/24/2011 11:24	
E300.0	WC_ANIONS_300.0 (Regular)	05/13/2011 14:00	15	05/24/2011 11:24	Cl, SO4
E300.0	WC_ANIONS_300.0 (Short Hold)	05/13/2011 14:00	15	04/28/2011 11:24	NO3
SW6010B	MET_ICP_6010B_FULL	05/13/2011 14:00	15	10/23/2011 11:24	Ca, Pb, K, Na, Mg
1104286-02 GW0061 [Water] Sampled 04/26/2011 11:24 Central					
SW6010B	MET_ICP_6010B_FULL_DIS	05/13/2011 14:00	15	10/23/2011 11:24	Fe & Mn

1104286

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1104286-03 GW0062 [Water] Sampled 04/26/2011 14:54 Central					
E300.0	WC_ANIONS_300.0 (Regular)	05/13/2011 14:00	15	05/24/2011 14:54	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	05/13/2011 14:00	15	10/23/2011 14:54	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	05/13/2011 14:00	15	05/10/2011 14:54	
E300.0	WC_ANIONS_300.0 (Short Hold)	05/13/2011 14:00	15	04/28/2011 14:54	NO3
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/13/2011 14:00	15	05/24/2011 14:54	
SM2320B	WC_ALKALINITY_2320B	05/13/2011 14:00	15	05/10/2011 14:54	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	05/13/2011 14:00	15	05/03/2011 14:54	
SW8011	SGC_EDB_8011	05/13/2011 14:00	15	05/10/2011 14:54	
SW8270C	SMS_BNA_8270C_3510_REG	05/13/2011 14:00	15	05/03/2011 14:54	
SW8015B GRO	VGC_GRO_8015B	05/13/2011 14:00	15	05/10/2011 14:54	
SM4500S2CF	WC_SULFIDE_4500S2CF	05/13/2011 14:00	15	05/03/2011 14:54	
1104286-04 GW0062 [Water] Sampled 04/26/2011 14:54 Central					
SW6010B	MET_ICP_6010B_FULL_DIS	05/13/2011 14:00	15	10/23/2011 14:54	Fe & Mn
1104286-05 GW0063 [Water] Sampled 04/26/2011 14:54 Central					
SW8015B GRO	VGC_GRO_8015B	05/13/2011 14:00	15	05/10/2011 14:54	
SM4500S2CF	WC_SULFIDE_4500S2CF	05/13/2011 14:00	15	05/03/2011 14:54	
SM2320B	WC_ALKALINITY_2320B	05/13/2011 14:00	15	05/10/2011 14:54	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/13/2011 14:00	15	05/24/2011 14:54	
E300.0	WC_ANIONS_300.0 (Regular)	05/13/2011 14:00	15	05/24/2011 14:54	Cl, SO4
E300.0	WC_ANIONS_300.0 (Short Hold)	05/13/2011 14:00	15	04/28/2011 14:54	NO3
SW8270C	SMS_BNA_8270C_3510_REG	05/13/2011 14:00	15	05/03/2011 14:54	
SW8011	SGC_EDB_8011	05/13/2011 14:00	15	05/10/2011 14:54	
SW6010B	MET_ICP_6010B_FULL	05/13/2011 14:00	15	10/23/2011 14:54	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	05/13/2011 14:00	15	05/10/2011 14:54	
SW8015B DRO	SGC_DRO_8015B_3510	05/13/2011 14:00	15	05/03/2011 14:54	
1104286-06 GW0063 [Water] Sampled 04/26/2011 14:54 Central					
SW6010B	MET_ICP_6010B_FULL_DIS	05/13/2011 14:00	15	10/23/2011 14:54	Fe & Mn
1104286-07 GW8031-TB [Water] Sampled 04/26/2011 08:00 Central					
SW8260B	VOC_8260B_REG	05/13/2011 14:00	15	05/10/2011 08:00	

Reviewed By

Date

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW032

17

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

Samples Shipment Date: 27 APR 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884468

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 Y Flammable Skin Irritant Poison B Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Shaw Env — Date: 4/27/11 Time: 1333
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) 2.5°C — Date: 4-28-11 Time: 09:00

Comments:

1104284

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		

KIRTLAND_010 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW032

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-04	GW0058	KAFB-106017-GW-GW0058-REG	27 APR 2011	12:12	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-03	GW8032-TB	FIELDQC-BW-GW8032-TB-TB	27 APR 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1104289 Number of Coolers: 1 of 1

Client: Shaw Project: Kirkland AFB

Date/Time Received: 4.28.11 0900 Date cooler(s) opened: 4.28.11

Opened By (print): Reginald Talley (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: 4468

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

How many: 1 Seal date: 4.27.11 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: 2.8 °C Correction Factor: -0.3 °C Final Value: 2.5 °C

Dates samples were logged-in: 4-28-11

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 < 2 for all inorganics & Metals Samples

WORK ORDER

Printed: 4/29/2011 11:10:02AM

1104289

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
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: 05/19/2011 16:00 (15 day TAT)

Received By: Chris Donald
Date Received: 04/28/2011 09:00

Logged In By: Chris Donald
Date Logged In: 04/28/2011 10:14

Samples Received at: **2.5°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1104289-01 GW0058 [Water] Sampled 04/27/2011 12:12 Eastern					
SM4500S2CF	WC_SULFIDE_4500S2CF	05/16/2011 14:00	15	05/04/2011 11:12	
E300.0	WC_ANIONS_300.0 (Short Hold)	05/16/2011 14:00	15	04/29/2011 11:12	NO3
E300.0	WC_ANIONS_300.0 (Regular)	05/16/2011 14:00	15	05/25/2011 11:12	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/16/2011 14:00	15	05/25/2011 11:12	
SM2320B	WC_ALKALINITY_2320B	05/16/2011 14:00	15	05/11/2011 11:12	carb/bicarb
SW8260B	VOC_8260B_REG	05/16/2011 14:00	15	05/11/2011 11:12	
SW8015B GRO	VGC_GRO_8015B	05/16/2011 14:00	15	05/11/2011 11:12	
SW8270C	SMS_BNA_8270C_3510_REG	05/16/2011 14:00	15	05/04/2011 11:12	
SW8011	SGC_EDB_8011	05/16/2011 14:00	15	05/11/2011 11:12	
SW8015B DRO	SGC_DRO_8015B_3510	05/16/2011 14:00	15	05/04/2011 11:12	
SW6010B	MET_ICP_6010B_FULL	05/16/2011 14:00	15	10/24/2011 11:12	Ca, Pb, K, Na, Mg
1104289-02 GW0058 [Water] Sampled 04/27/2011 12:12 Eastern					**Field Filtered and Preserved**
SW6010B	MET_ICP_6010B_FULL_DIS	05/16/2011 14:00	15	10/24/2011 11:12	Fe & Mn
1104289-03 GW8032-TB [Water] Sampled 04/27/2011 00:00 Central					
SW8260B	VOC_8260B_REG	05/16/2011 14:00	15	05/11/2011 00:00	

Reviewed By

Date

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-Gw033

21

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

Samples Shipment Date: 28 APR 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884479

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 Y Flammable Skin Irritant Poison B Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Carlton Fell Shaw Date: 4/28/11 Time: 1613
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Reynold Fellay 2.3°C Date: 4.29.11 Time: 0900
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

1104301

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

-01

KIRTLAND_010 Summ Package

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-Gw033

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
02 -	GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0067	KAFB-106025-GW-GW0067-REG	28 APR 2011	11:25	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-03	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-04	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0068	KAFB-106026-GW-GW0068-REG	28 APR 2011	14:40	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
05 -	GW8012-AB	FIELDQC-BW-GW8012-AB-AB	28 APR 2011	14:40	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
06 -	GW8033-TB	FIELDQC-BW-GW8033-TB-TB	28 APR 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1104307 Number of Coolers: 1 of 1

Client: Shaw Project: Kirkland AFB

Date/Time Received: 4.29.11 0900 Date cooler(s) opened: 4.29.11

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: 4479

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

How many: 1 Seal date: 4.28.11 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: 2.6 °C Correction Factor: -0.3 °C Final Value: 2.3 °C

Dates samples were logged-in: 4.29.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT

10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A Received 1 (one)
11. Did all bottles arrive unbroken? ..... RT 4.29 Yes No N/A broken vial
12. Was all required bottle label information complete? ..... Yes No N/A sample ID
13. Did all bottle labels agree with custody papers? ..... Yes No N/A LaW0067
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 for all metals was <2

Ph for all sulfide samples was >9

WORK ORDER

Printed: 5/4/2011 3:35:49PM

1104307

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
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: 05/20/2011 16:00 (15 day TAT)

Received By: Reginald Talley
Date Received: 04/29/2011 09:00

Logged In By: Reginald Talley
Date Logged In: 04/29/2011 10:54

Samples Received at: **2.3°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1104307-01 GW0067 [Water] Sampled 04/28/2011 11:25 Mountain					
SW8011	SGC_EDB_8011	05/17/2011 14:00	15	05/12/2011 12:25	
SW6010B	MET_ICP_6010B_FULL	05/17/2011 14:00	15	10/25/2011 12:25	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	05/17/2011 14:00	15	05/05/2011 12:25	
SW8270C	SMS_BNA_8270C_3510_REG	05/17/2011 14:00	15	05/05/2011 12:25	
SW8015B GRO	VGC_GRO_8015B	05/17/2011 14:00	15	05/12/2011 12:25	
SW8260B	VOC_8260B_REG	05/17/2011 14:00	15	05/12/2011 12:25	
SM2320B	WC_ALKALINITY_2320B	05/17/2011 14:00	15	05/12/2011 12:25	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	05/17/2011 14:00	15	05/26/2011 12:25	Cl, SO4
SM4500NO2B	WC_NITROGEN_NO2_4500NO2B	05/17/2011 14:00	15	04/30/2011 12:25	
E353.2	WC_NO3NO2_N_353.2	05/17/2011 14:00	15	05/26/2011 12:25	
SM4500S2CF	WC_SULFIDE_4500S2CF	05/17/2011 14:00	15	05/05/2011 12:25	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/17/2011 14:00	15	05/26/2011 12:25	
1104307-02 GW0067 [Water] Sampled 04/28/2011 11:25 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	05/17/2011 14:00	15	10/25/2011 12:25	Fe & Mn

1104307

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1104307-03 GW0068 [Water] Sampled 04/28/2011 14:40 Mountain					
SW8270C	SMS_BNA_8270C_3510_REG	05/17/2011 14:00	15	05/05/2011 15:40	
SW8015B GRO	VGC_GRO_8015B	05/17/2011 14:00	15	05/12/2011 15:40	
SW8260B	VOC_8260B_REG	05/17/2011 14:00	15	05/12/2011 15:40	
SM2320B	WC_ALKALINITY_2320B	05/17/2011 14:00	15	05/12/2011 15:40	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/17/2011 14:00	15	05/26/2011 15:40	
E300.0	WC_ANIONS_300.0 (Regular)	05/17/2011 14:00	15	05/26/2011 15:40	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	05/17/2011 14:00	15	10/25/2011 15:40	Ca, Pb, K, Na, Mg
E353.2	WC_NO3NO2_N_353.2	05/17/2011 14:00	15	05/26/2011 15:40	
SW8015B DRO	SGC_DRO_8015B_3510	05/17/2011 14:00	15	05/05/2011 15:40	
SW8011	SGC_EDB_8011	05/17/2011 14:00	15	05/12/2011 15:40	
SM4500S2CF	WC_SULFIDE_4500S2CF	05/17/2011 14:00	15	05/05/2011 15:40	
SM4500NO2B	WC_NITROGEN_NO2_4500NO2B	05/17/2011 14:00	15	04/30/2011 15:40	
1104307-04 GW0068 [Water] Sampled 04/28/2011 14:40 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	05/17/2011 14:00	15	10/25/2011 15:40	Fe & Mn
1104307-05 GW8012-AB [Water] Sampled 04/28/2011 14:40 Mountain					
SW8260B	VOC_8260B_REG	05/17/2011 14:00	15	05/12/2011 15:40	
1104307-06 GW8033-TB [Water] Sampled 04/28/2011 08:00 Mountain					
SW8260B	VOC_8260B_REG	05/17/2011 14:00	15	05/12/2011 09:00	

Reviewed By

Date

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW034

26

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

Samples Shipment Date: 29 APR 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681666

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) [signature] Date: 4/29/11 Time: 2:23PM
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) [signature] 2.0°C Date: 4-30-11 Time: 12:00

Comments:

1105615

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		

KIRTLAND_010 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW034

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0043	KAFB-106003-GW-GW0043-REG	29 APR 2011	10:58	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-03	GW8034-TB	FIELDQC-BW-GW8034-TB-TB	29 APR 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1105015 Number of Coolers: _____ of _____

Client: Shaw Project: Kirkland

Date/Time Received: 4-30 11/12:00 Date cooler(s) opened: 4-30-11

Opened By (print): Chris Dlw (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: 2

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

How many: 1 Seal date: 4-29-11 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: 2.3 °C Correction Factor: -0.3 °C Final Value: 2.0 °C

Dates samples were logged-in: 5-2-11

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<2 for all ammonia & metals

. ph>9 4all sulfides

WORK ORDER

Printed: 5/4/2011 3:33:13PM

1105015

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
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: 05/23/2011 16:00 (15 day TAT)

Received By: William Schwab
Date Received: 04/30/2011 09:00

Logged In By: William Schwab
Date Logged In: 05/02/2011 07:17

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	No		
COC/Labels Agree	No		
Preservation Confirme	No		

Method	Test Code	Due	TAT	Expires	Comments
1105015-01 GW0043 [Water] Sampled 04/29/2011 10:58 Mountain					
SM4500S2CF	WC_SULFIDE_4500S2CF	05/18/2011 14:00	15	05/06/2011 11:58	
E353.2	WC_NO3NO2_N_353.2	05/18/2011 14:00	15	05/27/2011 11:58	
SM4500NO2B	WC_NITROGEN_NO2_4500NO2B	05/18/2011 14:00	15	05/01/2011 11:58	
E300.0	WC_ANIONS_300.0 (Regular)	05/18/2011 14:00	15	05/27/2011 11:58	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	05/18/2011 14:00	15	05/27/2011 11:58	
SM2320B	WC_ALKALINITY_2320B	05/18/2011 14:00	15	05/13/2011 11:58	carb/bicarb
SW8260B	VOC_8260B_REG	05/18/2011 14:00	15	05/13/2011 11:58	
SW8015B GRO	VGC_GRO_8015B	05/18/2011 14:00	15	05/13/2011 11:58	
SW8270C	SMS_BNA_8270C_3510_REG	05/18/2011 14:00	15	05/06/2011 11:58	
SW8011	SGC_EDB_8011	05/18/2011 14:00	15	05/13/2011 11:58	
SW8015B DRO	SGC_DRO_8015B_3510	05/18/2011 14:00	15	05/06/2011 11:58	
SW6010B	MET_ICP_6010B_FULL	05/18/2011 14:00	15	10/26/2011 11:58	Ca, Pb, K, Na, Mg
1105015-02 GW0043 [Water] Sampled 04/29/2011 10:58 Mountain					**Field Filtered and preserved**
SW6010B	MET_ICP_6010B_FULL_DIS	05/18/2011 14:00	15	10/26/2011 11:58	Fe & Mn. Field Filtered and Preserved!
1105015-03 GW8034-TB [Water] Sampled 04/29/2011 08:00 Mountain					
SW8260B	VOC_8260B_REG	05/18/2011 14:00	15	05/13/2011 09:00	

Reviewed By

Date

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_010
MATRIX: Water

QC LEVEL: Level IV
Report Due: 5/23/2011
Client Sample Count: 14

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500 NH3BG	SM4500 NO2B	SM4500 S2CF	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	4/26/2011	4/27/2011	1104286-01	GW0061	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/26/2011	4/27/2011	1104286-02	GW0061							X					
Client Sample	4/26/2011	4/27/2011	1104286-03	GW0062	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/26/2011	4/27/2011	1104286-04	GW0062							X					
Client Sample	4/26/2011	4/27/2011	1104286-05	GW0063	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/26/2011	4/27/2011	1104286-06	GW0063							X					
Trip Blank	4/26/2011	4/27/2011	1104286-07	GW8031-TB											X	
Client Sample	4/27/2011	4/28/2011	1104289-01	GW0058	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/27/2011	4/28/2011	1104289-02	GW0058							X					
Trip Blank	4/27/2011	4/28/2011	1104289-03	GW8032-TB											X	
Client Sample	4/28/2011	4/29/2011	1104307-01	GW0067	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/28/2011	4/29/2011	1104307-02	GW0067							X					
Client Sample	4/28/2011	4/29/2011	1104307-03	GW0068	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/28/2011	4/29/2011	1104307-04	GW0068							X					
Trip Blank	4/28/2011	4/29/2011	1104307-05	GW8012-AB											X	
Trip Blank	4/28/2011	4/29/2011	1104307-06	GW8033-TB											X	
Client Sample	4/29/2011	4/30/2011	1105015-01	GW0043	X	X	X	X	X	X	X	X	X	X	X	X
Client Sample	4/29/2011	4/30/2011	1105015-02	GW0043							X					
Trip Blank	4/29/2011	4/30/2011	1105015-03	GW8034-TB											X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	0428601.D
Sampled:	04/26/11 11:24	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 15:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	U
75-25-2	Bromoform		0.250	0.500	1.00	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	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	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	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	U

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	0428601.D
Sampled:	04/26/11 11:24	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 15:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	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	28.66	95.5	75 - 120	
Dibromofluoromethane	30.00	32.39	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.38	101	70 - 120	
Toluene-d8	30.00	28.43	94.8	85 - 120	

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	0428603.D
Sampled:	04/26/11 14:54	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 15:36
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	0.752	0.250	0.500	1.00	J
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	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	0.570	0.250	0.500	1.00	J
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	Q, 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	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	U

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	0428603.D
Sampled:	04/26/11 14:54	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 15:36
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	5.88	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	0.312	0.250	0.500	1.00	J
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	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	1.53	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	0.783	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	1.60	0.500	1.00	2.00	J
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	31.42	105	75 - 120	
Dibromofluoromethane	30.00	33.43	111	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	28.74	95.8	85 - 120	

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	0428605D.D
Sampled:	04/26/11 14:54	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 16:06
Solids:		Preparation:	5030B	Dilution:	2

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		5.00	10.0	20.0	U
71-43-2	Benzene	0.602	0.500	1.00	2.00	J, D
108-86-1	Bromobenzene		0.500	1.00	2.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.500	1.00	2.00	U
75-25-2	Bromoform		0.500	1.00	2.00	U
74-83-9	Bromomethane		1.00	2.00	4.00	U
104-51-8	n-Butylbenzene		0.500	1.00	2.00	U
78-93-3	2-Butanone		5.00	10.0	20.0	U
135-98-8	sec-Butylbenzene	0.549	0.500	1.00	2.00	J, D
98-06-6	tert-Butylbenzene		0.500	1.00	2.00	U
75-15-0	Carbon disulfide		0.500	1.00	2.00	U
56-23-5	Carbon tetrachloride		0.500	1.00	2.00	U
108-90-7	Chlorobenzene		0.500	1.00	2.00	U
75-00-3	Chloroethane		1.00	2.00	4.00	Q, U
67-66-3	Chloroform		0.500	1.00	2.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	U
95-49-8	2-Chlorotoluene		0.500	1.00	2.00	U
106-43-4	4-Chlorotoluene		0.500	1.00	2.00	U
124-48-1	Dibromochloromethane		0.500	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane		1.00	2.00	4.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.500	1.00	2.00	U
74-95-3	Dibromomethane		0.500	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene		0.500	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene		0.500	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene		0.500	1.00	2.00	U
75-71-8	Dichlorodifluoromethane		1.00	2.00	4.00	U
75-34-3	1,1-Dichloroethane		0.500	1.00	2.00	U
107-06-2	1,2-Dichloroethane		0.500	1.00	2.00	U
75-35-4	1,1-Dichloroethene		0.500	1.00	2.00	U
156-59-2	cis-1,2-Dichloroethene		0.500	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.500	1.00	2.00	U
142-28-9	1,3-Dichloropropane		0.500	1.00	2.00	U
594-20-7	2,2-Dichloropropane		0.500	1.00	2.00	X, U
563-58-6	1,1-Dichloropropene		0.500	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene		0.500	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
87-68-3	Hexachlorobutadiene		0.500	1.00	2.00	U

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	0428605D.D
Sampled:	04/26/11 14:54	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 16:06
Solids:		Preparation:	5030B	Dilution:	2

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		2.50	5.00	10.0	U
98-82-8	Isopropylbenzene	3.99	0.500	1.00	2.00	D
99-87-6	p-Isopropyltoluene		0.500	1.00	2.00	U
75-09-2	Methylene chloride		1.00	2.00	4.00	U
91-20-3	Naphthalene		0.500	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone		2.50	5.00	10.0	X, U
1634-04-4	Methyl t-Butyl Ether		0.500	1.00	2.00	U
103-65-1	n-Propylbenzene		0.500	1.00	2.00	U
100-42-5	Styrene		0.500	1.00	2.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.500	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.500	1.00	2.00	U
127-18-4	Tetrachloroethene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene		0.500	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.500	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane		0.500	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane		0.500	1.00	2.00	U
79-01-6	Trichloroethene		0.500	1.00	2.00	U
75-69-4	Trichlorofluoromethane		1.00	2.00	4.00	X, U
96-18-4	1,2,3-Trichloropropane		1.00	2.00	4.00	U
108-67-8	1,3,5-Trimethylbenzene	1.21	0.500	1.00	2.00	J, D
95-63-6	1,2,4-Trimethylbenzene	0.782	0.500	1.00	2.00	J, D
75-01-4	Vinyl chloride		0.500	1.00	2.00	U
108-38-3/106-42-	m,p-Xylene	1.47	1.00	2.00	4.00	J, D
95-47-6	o-Xylene		0.500	1.00	2.00	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	32.59	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.98	103	70 - 120	
Toluene-d8	30.00	28.23	94.1	85 - 120	

ANALYSIS DATA SHEET

GW8031-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104286-07	File ID:	0428607.D
Sampled:	04/26/11 08:00	Prepared:	05/04/11 00:00	Analyzed:	05/04/11 12:00
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 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	Q, 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	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	0.392	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

GW8031-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104286-07	File ID:	0428607.D
Sampled:	04/26/11 08:00	Prepared:	05/04/11 00:00	Analyzed:	05/04/11 12:00
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 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	4.09	0.500	1.00	2.00	
91-20-3	Naphthalene	0.448	0.250	0.500	1.00	J, B
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	0.402	0.250	0.500	1.00	J, B
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	29.66	98.9	75 - 120	
Dibromofluoromethane	30.00	30.17	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.27	104	70 - 120	
Toluene-d8	30.00	30.59	102	85 - 120	

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	0428901.D
Sampled:	04/27/11 12:12	Prepared:	05/02/11 00:00	Analyzed:	05/03/11 02:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	X, 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	X, 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)	0.811	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	0.795	0.500	1.00	2.00	J
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	U

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	0428901.D
Sampled:	04/27/11 12:12	Prepared:	05/02/11 00:00	Analyzed:	05/03/11 02:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	0.803	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	0.286	0.250	0.500	1.00	J
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	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	0.547	0.500	1.00	2.00	J
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	30.44	101	75 - 120	
Dibromofluoromethane	30.00	32.35	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.55	102	70 - 120	
Toluene-d8	30.00	28.94	96.5	85 - 120	

ANALYSIS DATA SHEET

GW8032-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-03	File ID:	0428903.D
Sampled:	04/27/11 00:00	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 12:08
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	U
75-25-2	Bromoform		0.250	0.500	1.00	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	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	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	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	U

ANALYSIS DATA SHEET

GW8032-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-03	File ID:	0428903.D
Sampled:	04/27/11 00:00	Prepared:	04/30/11 00:00	Analyzed:	04/30/11 12:08
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	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	29.95	99.8	75 - 120	
Dibromofluoromethane	30.00	32.49	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	30.58	102	85 - 120	

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	0430701.D
Sampled:	04/28/11 11:25	Prepared:	05/02/11 00:00	Analyzed:	05/03/11 01:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	X, 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	X, 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	U

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	0430701.D
Sampled:	04/28/11 11:25	Prepared:	05/02/11 00:00	Analyzed:	05/03/11 01:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	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	29.75	99.2	75 - 120	
Dibromofluoromethane	30.00	32.78	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.49	102	70 - 120	
Toluene-d8	30.00	29.30	97.7	85 - 120	

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	0430703.D
Sampled:	04/28/11 14:40	Prepared:	05/02/11 00:00	Analyzed:	05/03/11 01:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	X, 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	X, 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	U

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	0430703.D
Sampled:	04/28/11 14:40	Prepared:	05/02/11 00:00	Analyzed:	05/03/11 01:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	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	30.10	100	75 - 120	
Dibromofluoromethane	30.00	34.29	114	85 - 115	
1,2-Dichloroethane-d4	30.00	32.94	110	70 - 120	
Toluene-d8	30.00	29.98	99.9	85 - 120	

ANALYSIS DATA SHEET

GW8012-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104307-05	File ID:	0430705.D
Sampled:	04/28/11 14:40	Prepared:	05/02/11 00:00	Analyzed:	05/02/11 22:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	X, 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	X, 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	U

ANALYSIS DATA SHEET

GW8012-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104307-05	File ID:	0430705.D
Sampled:	04/28/11 14:40	Prepared:	05/02/11 00:00	Analyzed:	05/02/11 22:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	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	30.44	101	75 - 120	
Dibromofluoromethane	30.00	34.82	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	31.89	106	70 - 120	
Toluene-d8	30.00	29.39	98.0	85 - 120	

ANALYSIS DATA SHEET

GW8033-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104307-06	File ID:	0430706.D
Sampled:	04/28/11 08:00	Prepared:	05/02/11 00:00	Analyzed:	05/02/11 22:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	X, 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	X, 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	U

ANALYSIS DATA SHEET

GW8033-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104307-06	File ID:	0430706.D
Sampled:	04/28/11 08:00	Prepared:	05/02/11 00:00	Analyzed:	05/02/11 22:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	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	29.68	98.9	75 - 120	
Dibromofluoromethane	30.00	36.71	122	85 - 115	*
1,2-Dichloroethane-d4	30.00	33.25	111	70 - 120	
Toluene-d8	30.00	28.85	96.2	85 - 120	

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	0501501.D
Sampled:	04/29/11 10:58	Prepared:	05/04/11 00:00	Analyzed:	05/04/11 17:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

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	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	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	Y, 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	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	U

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	0501501.D
Sampled:	04/29/11 10:58	Prepared:	05/04/11 00:00	Analyzed:	05/04/11 17:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

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	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	31.01	103	75 - 120	
Dibromofluoromethane	30.00	34.15	114	85 - 115	
1,2-Dichloroethane-d4	30.00	31.12	104	70 - 120	
Toluene-d8	30.00	30.75	102	85 - 120	

ANALYSIS DATA SHEET

GW8034-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1105015-03	File ID:	0501503.D
Sampled:	04/29/11 08:00	Prepared:	05/04/11 00:00	Analyzed:	05/04/11 13:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

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	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	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	Y, 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	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	U

ANALYSIS DATA SHEET

GW8034-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1105015-03	File ID:	0501503.D
Sampled:	04/29/11 08:00	Prepared:	05/04/11 00:00	Analyzed:	05/04/11 13:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

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	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	30.05	100	75 - 120	
Dibromofluoromethane	30.00	32.68	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	30.41	101	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12206	Instrument:	MS-VOA4
		Calibration:	1084001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12206-CCV1) ug/L				Lab File ID: 0430CCV1.D		Analyzed: 04/30/11 09:28		
Bromofluorobenzene	30.00	104	80 - 120	16.437	16.437	0.0000	+/-1.000	
Dibromofluoromethane	30.00	108	80 - 120	8.812	8.812	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.0	80 - 120	10.045	10.045	0.0000	+/-1.000	
Toluene-d8	30.00	96.8	80 - 120	14.109	14.109	0.0000	+/-1.000	
LCS (1D30002-BS1) ug/L				Lab File ID: 0430LCS1.D		Analyzed: 04/30/11 10:08		
Bromofluorobenzene	30.00	107	75 - 120	16.441	16.437	0.0040	+/-1.000	
Dibromofluoromethane	30.00	98.9	85 - 115	8.815	8.812	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	10.048	10.045	0.0030	+/-1.000	
Toluene-d8	30.00	105	85 - 120	14.113	14.109	0.0040	+/-1.000	
Blank (1D30002-BLK1) ug/L				Lab File ID: 0430BL1.D		Analyzed: 04/30/11 11:37		
Bromofluorobenzene	30.00	99.9	75 - 120	16.438	16.437	0.0010	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	8.812	8.812	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.055	10.045	0.0100	+/-1.000	
Toluene-d8	30.00	100	85 - 120	14.109	14.109	0.0000	+/-1.000	
GW8032-TB (1104289-03) ug/L				Lab File ID: 0428903.D		Analyzed: 04/30/11 12:08		
Bromofluorobenzene	30.00	99.8	75 - 120	16.441	16.437	0.0040	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.805	8.812	-0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.048	10.045	0.0030	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.113	14.109	0.0040	+/-1.000	
GW0061 (1104286-01) ug/L				Lab File ID: 0428601.D		Analyzed: 04/30/11 15:06		
Bromofluorobenzene	30.00	95.5	75 - 120	16.443	16.437	0.0060	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.818	8.812	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.041	10.045	-0.0040	+/-1.000	
Toluene-d8	30.00	94.8	85 - 120	14.115	14.109	0.0060	+/-1.000	
GW0062 (1104286-03) ug/L				Lab File ID: 0428603.D		Analyzed: 04/30/11 15:36		
Bromofluorobenzene	30.00	105	75 - 120	16.447	16.437	0.0100	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	8.812	8.812	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.055	10.045	0.0100	+/-1.000	
Toluene-d8	30.00	95.8	85 - 120	14.119	14.109	0.0100	+/-1.000	
GW0063 (1104286-05) ug/L				Lab File ID: 0428605D.D		Analyzed: 04/30/11 16:06		
Bromofluorobenzene	30.00	97.1	75 - 120	16.442	16.437	0.0050	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	8.817	8.812	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.05	10.045	0.0050	+/-1.000	
Toluene-d8	30.00	94.1	85 - 120	14.114	14.109	0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12206	Instrument:	MS-VOA4
		Calibration:	1084001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1D30002-BSD1) ug/L				Lab File ID: 0430LCD1.D		Analyzed: 04/30/11 19:34		
Bromofluorobenzene	30.00	111	75 - 120	16.441	16.437	0.0040	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.816	8.812	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.6	70 - 120	10.039	10.045	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.113	14.109	0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12309	Instrument:	MS-VOA4
		Calibration:	1084001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12309-CCV1) ug/L				Lab File ID: 0502CCVE.D		Analyzed: 05/02/11 19:12		
Bromofluorobenzene	30.00	98.1	80 - 120	16.445	16.445	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	8.809	8.809	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.042	10.042	0.0000	+/-1.000	
Toluene-d8	30.00	91.0	80 - 120	14.116	14.116	0.0000	+/-1.000	
LCS (1E02009-BS1) ug/L				Lab File ID: 0502LCSE.D		Analyzed: 05/02/11 19:42		
Bromofluorobenzene	30.00	111	75 - 120	16.442	16.445	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.816	8.809	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.049	10.042	0.0070	+/-1.000	
Toluene-d8	30.00	104	85 - 120	14.114	14.116	-0.0020	+/-1.000	
Blank (1E02009-BLK1) ug/L				Lab File ID: 0502BL1E.D		Analyzed: 05/02/11 21:10		
Bromofluorobenzene	30.00	100	75 - 120	16.442	16.445	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.816	8.809	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.039	10.042	-0.0030	+/-1.000	
Toluene-d8	30.00	94.7	85 - 120	14.114	14.116	-0.0020	+/-1.000	
GW8033-TB (1104307-06) ug/L				Lab File ID: 0430706.D		Analyzed: 05/02/11 22:09		
Bromofluorobenzene	30.00	98.9	75 - 120	16.441	16.445	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	122	85 - 115	8.806	8.809	-0.0030	+/-1.000	*
1,2-Dichloroethane-d4	30.00	111	70 - 120	10.039	10.042	-0.0030	+/-1.000	
Toluene-d8	30.00	96.2	85 - 120	14.113	14.116	-0.0030	+/-1.000	
GW8012-AB (1104307-05) ug/L				Lab File ID: 0430705.D		Analyzed: 05/02/11 22:39		
Bromofluorobenzene	30.00	101	75 - 120	16.438	16.445	-0.0070	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	8.812	8.809	0.0030	+/-1.000	*
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.035	10.042	-0.0070	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	14.109	14.116	-0.0070	+/-1.000	
GW0067 (1104307-01) ug/L				Lab File ID: 0430701.D		Analyzed: 05/03/11 01:07		
Bromofluorobenzene	30.00	99.2	75 - 120	16.442	16.445	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	8.817	8.809	0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.06	10.042	0.0180	+/-1.000	
Toluene-d8	30.00	97.7	85 - 120	14.114	14.116	-0.0020	+/-1.000	
GW0068 (1104307-03) ug/L				Lab File ID: 0430703.D		Analyzed: 05/03/11 01:37		
Bromofluorobenzene	30.00	100	75 - 120	16.447	16.445	0.0020	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	8.821	8.809	0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	10.054	10.042	0.0120	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	14.119	14.116	0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12309	Instrument:	MS-VOA4
		Calibration:	1084001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0058 (1104289-01) ug/L				Lab File ID: 0428901.D		Analyzed: 05/03/11 02:06		
Bromofluorobenzene	30.00	101	75 - 120	16.445	16.445	0.0000	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.81	8.809	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.053	10.042	0.0110	+/-1.000	
Toluene-d8	30.00	96.5	85 - 120	14.117	14.116	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12504	Instrument:	MS-VOA4
		Calibration:	1084001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12504-CCV1) ug/L				Lab File ID: 0504CCV1.D		Analyzed: 05/04/11 09:21		
Bromofluorobenzene	30.00	105	80 - 120	16.432	16.432	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	8.777	8.777	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.01	10.01	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	80 - 120	14.104	14.104	0.0000	+/-1.000	
LCS (1E04006-BS1) ug/L				Lab File ID: 0504LCS1.D		Analyzed: 05/04/11 10:08		
Bromofluorobenzene	30.00	101	75 - 120	16.431	16.432	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.766	8.777	-0.0110	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	9.999	10.01	-0.0110	+/-1.000	
Toluene-d8	30.00	105	85 - 120	14.103	14.104	-0.0010	+/-1.000	
Blank (1E04006-BLK1) ug/L				Lab File ID: 0504BL1.D		Analyzed: 05/04/11 11:37		
Bromofluorobenzene	30.00	104	75 - 120	16.427	16.432	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	8.772	8.777	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.5	70 - 120	9.995	10.01	-0.0150	+/-1.000	
Toluene-d8	30.00	108	85 - 120	14.099	14.104	-0.0050	+/-1.000	
GW8034-TB (1105015-03) ug/L				Lab File ID: 0501503.D		Analyzed: 05/04/11 13:06		
Bromofluorobenzene	30.00	100	75 - 120	16.424	16.432	-0.0080	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	8.769	8.777	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.002	10.01	-0.0080	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.096	14.104	-0.0080	+/-1.000	
GW0043 (1105015-01) ug/L				Lab File ID: 0501501.D		Analyzed: 05/04/11 17:33		
Bromofluorobenzene	30.00	103	75 - 120	16.432	16.432	0.0000	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	8.777	8.777	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.01	10.01	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.104	14.104	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12611	Instrument:	MS-VOA5
		Calibration:	1110001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12611-CCV1) ug/L				Lab File ID: 0504CC1.D		Analyzed: 05/04/11 09:41		
Bromofluorobenzene	30.00	93.4	80 - 120	12.221	12.221	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	6.862	6.862	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	7.365	7.365	0.0000	+/-1.000	
Toluene-d8	30.00	93.4	80 - 120	9.591	9.591	0.0000	+/-1.000	
LCS (1E04009-BS1) ug/L				Lab File ID: 0504LS1.D		Analyzed: 05/04/11 10:19		
Bromofluorobenzene	30.00	98.2	75 - 120	12.226	12.221	0.0050	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.857	6.862	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.36	7.365	-0.0050	+/-1.000	
Toluene-d8	30.00	96.1	85 - 120	9.596	9.591	0.0050	+/-1.000	
Blank (1E04009-BLK1) ug/L				Lab File ID: 0504BL1.D		Analyzed: 05/04/11 11:33		
Bromofluorobenzene	30.00	99.5	75 - 120	12.23	12.221	0.0090	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.871	6.862	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.8	70 - 120	7.364	7.365	-0.0010	+/-1.000	
Toluene-d8	30.00	99.8	85 - 120	9.6	9.591	0.0090	+/-1.000	
GW8031-TB (1104286-07) ug/L				Lab File ID: 0428607.D		Analyzed: 05/04/11 12:00		
Bromofluorobenzene	30.00	98.9	75 - 120	12.225	12.221	0.0040	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.866	6.862	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.359	7.365	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.595	9.591	0.0040	+/-1.000	
LCS Dup (1E04009-BSD1) ug/L				Lab File ID: 0504LD1.D		Analyzed: 05/04/11 20:41		
Bromofluorobenzene	30.00	99.0	75 - 120	12.223	12.221	0.0020	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	6.865	6.862	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	7.367	7.365	0.0020	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	9.593	9.591	0.0020	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D30002	Laboratory ID:	1D30002-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	49.0	98.0	80 - 120
Bromobenzene	50.00	47.7	95.4	75 - 125
Bromochloromethane	50.00	51.5	103	65 - 130
Bromodichloromethane	50.00	53.6	107	75 - 120
Bromoform	50.00	50.1	100	70 - 130
Bromomethane	50.00	49.8	99.5	30 - 145
n-Butylbenzene	50.00	51.9	104	70 - 135
2-Butanone	100.0	91.7	91.7	30 - 150
sec-Butylbenzene	50.00	49.2	98.4	70 - 125
tert-Butylbenzene	50.00	49.4	98.7	70 - 130
Carbon disulfide	50.00	53.0	106	35 - 160
Carbon tetrachloride	50.00	52.3	105	65 - 140
Chlorobenzene	50.00	54.1	108	80 - 120
Chloroethane	**50.00**	**69.4**	**139**	**60 - 135**
Chloroform	50.00	50.8	102	65 - 135
Chloromethane	50.00	52.0	104	40 - 125
2-Chlorotoluene	50.00	50.7	101	75 - 125
4-Chlorotoluene	50.00	51.5	103	75 - 130
Dibromochloromethane	50.00	53.7	107	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.6	93.3	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.5	103	80 - 120
Dibromomethane	50.00	50.2	100	75 - 125
1,2-Dichlorobenzene	50.00	49.9	99.8	70 - 120
1,3-Dichlorobenzene	50.00	52.7	105	75 - 125
1,4-Dichlorobenzene	50.00	48.0	96.0	75 - 125
Dichlorodifluoromethane	50.00	54.4	109	30 - 155
1,1-Dichloroethane	50.00	50.8	102	70 - 135
1,2-Dichloroethane	50.00	52.4	105	70 - 130
1,1-Dichloroethene	50.00	53.1	106	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D30002	Laboratory ID:	1D30002-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	51.0	102	70 - 125
trans-1,2-Dichloroethene	50.00	49.5	99.0	60 - 140
1,2-Dichloropropane	50.00	49.2	98.5	75 - 125
1,3-Dichloropropane	50.00	49.9	99.8	75 - 125
2,2-Dichloropropane	50.00	55.6	111	70 - 135
1,1-Dichloropropene	50.00	51.2	102	75 - 130
cis-1,3-Dichloropropene	50.00	50.7	101	70 - 130
trans-1,3-Dichloropropene	50.00	56.9	114	55 - 140
Ethylbenzene	50.00	50.6	101	75 - 125
Hexachlorobutadiene	50.00	50.6	101	50 - 140
2-Hexanone	100.0	119	119	55 - 130
Isopropylbenzene	50.00	54.3	109	75 - 125
p-Isopropyltoluene	50.00	52.1	104	75 - 130
Methylene chloride	50.00	53.0	106	55 - 140
Naphthalene	50.00	45.0	90.0	55 - 140
4-Methyl-2-pentanone	100.0	111	111	60 - 135
Methyl t-Butyl Ether	50.00	51.3	103	65 - 125
n-Propylbenzene	50.00	51.7	103	70 - 130
Styrene	50.00	53.2	106	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.9	81.8	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.0	104	80 - 130
Tetrachloroethene	50.00	52.1	104	45 - 150
Toluene	50.00	50.5	101	75 - 120
1,2,3-Trichlorobenzene	50.00	44.6	89.1	55 - 140
1,2,4-Trichlorobenzene	50.00	44.8	89.7	65 - 135
1,1,2-Trichloroethane	50.00	50.1	100	75 - 125
1,1,1-Trichloroethane	50.00	50.9	102	65 - 130
Trichloroethene	50.00	55.2	110	70 - 125
Trichlorofluoromethane	50.00	55.4	111	60 - 145
1,2,3-Trichloropropane	50.00	51.0	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D30002	Laboratory ID:	1D30002-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	52.0	104	75 - 130
1,2,4-Trimethylbenzene	50.00	50.8	102	75 - 130
Vinyl chloride	50.00	51.9	104	50 - 145
m,p-Xylene	100.0	102	102	75 - 130
o-Xylene	50.00	50.5	101	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	103	103	6.36	30	40 - 140
Benzene	50.00	51.1	102	4.24	30	80 - 120
Bromobenzene	50.00	48.8	97.7	2.33	30	75 - 125
Bromochloromethane	50.00	51.8	104	0.577	30	65 - 130
Bromodichloromethane	50.00	57.4	115	6.92	30	75 - 120
Bromoform	50.00	52.0	104	3.55	30	70 - 130
Bromomethane	50.00	46.9	93.7	5.96	30	30 - 145
n-Butylbenzene	50.00	48.4	96.8	7.02	30	70 - 135
2-Butanone	100.0	89.9	89.9	2.02	30	30 - 150
sec-Butylbenzene	50.00	50.9	102	3.51	30	70 - 125
tert-Butylbenzene	50.00	48.6	97.3	1.49	30	70 - 130
Carbon disulfide	50.00	52.3	105	1.36	30	35 - 160
Carbon tetrachloride	50.00	53.1	106	1.47	30	65 - 140
Chlorobenzene	50.00	53.5	107	1.04	30	80 - 120
Chloroethane	50.00	55.3	111	22.5	30	60 - 135
Chloroform	50.00	53.5	107	5.12	30	65 - 135
Chloromethane	50.00	55.0	110	5.67	30	40 - 125
2-Chlorotoluene	50.00	52.6	105	3.79	30	75 - 125
4-Chlorotoluene	50.00	54.9	110	6.41	30	75 - 130
Dibromochloromethane	50.00	57.8	116	7.45	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.4	94.8	1.61	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.1	106	2.96	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D30002	Laboratory ID:	1D30002-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	53.1	106	5.77	30	75 - 125
1,2-Dichlorobenzene	50.00	49.5	99.1	0.687	30	70 - 120
1,3-Dichlorobenzene	50.00	57.6	115	8.91	30	75 - 125
1,4-Dichlorobenzene	50.00	46.2	92.4	3.83	30	75 - 125
Dichlorodifluoromethane	50.00	56.0	112	2.89	30	30 - 155
1,1-Dichloroethane	50.00	53.5	107	5.20	30	70 - 135
1,2-Dichloroethane	50.00	55.3	111	5.43	30	70 - 130
1,1-Dichloroethene	50.00	54.7	109	3.05	30	70 - 130
cis-1,2-Dichloroethene	50.00	53.5	107	4.74	30	70 - 125
trans-1,2-Dichloroethene	50.00	51.5	103	4.01	30	60 - 140
1,2-Dichloropropane	50.00	53.4	107	8.13	30	75 - 125
1,3-Dichloropropane	50.00	53.0	106	5.90	30	75 - 125
2,2-Dichloropropane	50.00	48.0	95.9	14.8	30	70 - 135
1,1-Dichloropropene	50.00	52.9	106	3.33	30	75 - 130
cis-1,3-Dichloropropene	50.00	49.7	99.5	1.89	30	70 - 130
trans-1,3-Dichloropropene	50.00	57.8	116	1.71	30	55 - 140
Ethylbenzene	50.00	54.8	110	7.95	30	75 - 125
Hexachlorobutadiene	50.00	44.9	89.7	11.9	30	50 - 140
2-Hexanone	100.0	115	115	3.76	30	55 - 130
Isopropylbenzene	50.00	54.5	109	0.332	30	75 - 125
p-Isopropyltoluene	50.00	49.9	99.8	4.29	30	75 - 130
Methylene chloride	50.00	52.2	104	1.52	30	55 - 140
Naphthalene	50.00	51.3	103	13.2	30	55 - 140
4-Methyl-2-pentanone	100.0	108	108	2.03	30	60 - 135
Methyl t-Butyl Ether	50.00	50.7	101	1.21	30	65 - 125
n-Propylbenzene	50.00	52.6	105	1.70	30	70 - 130
Styrene	50.00	56.2	112	5.60	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.9	93.7	13.6	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.5	109	4.65	30	80 - 130
Tetrachloroethene	50.00	49.8	99.7	4.39	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D30002	Laboratory ID:	1D30002-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	53.6	107	6.01	30	75 - 120
1,2,3-Trichlorobenzene	50.00	44.5	89.0	0.195	30	55 - 140
1,2,4-Trichlorobenzene	50.00	46.5	93.1	3.73	30	65 - 135
1,1,2-Trichloroethane	50.00	49.5	99.0	1.34	30	75 - 125
1,1,1-Trichloroethane	50.00	52.9	106	3.93	30	65 - 130
Trichloroethene	50.00	55.3	111	0.0764	30	70 - 125
Trichlorofluoromethane	50.00	57.4	115	3.49	30	60 - 145
1,2,3-Trichloropropane	50.00	52.9	106	3.63	30	75 - 125
1,3,5-Trimethylbenzene	50.00	55.0	110	5.46	30	75 - 130
1,2,4-Trimethylbenzene	50.00	50.5	101	0.573	30	75 - 130
Vinyl chloride	50.00	55.1	110	5.97	30	50 - 145
m,p-Xylene	100.0	109	109	6.80	30	75 - 130
o-Xylene	50.00	52.5	105	3.91	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02009	Laboratory ID:	1E02009-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	97.5	97.5	40 - 140
Benzene	50.00	54.8	110	80 - 120
Bromobenzene	50.00	50.7	101	75 - 125
Bromochloromethane	50.00	57.3	115	65 - 130
Bromodichloromethane	**50.00**	**60.6**	**121**	**75 - 120**
Bromoform	50.00	51.7	103	70 - 130
Bromomethane	50.00	58.1	116	30 - 145
n-Butylbenzene	50.00	52.4	105	70 - 135
2-Butanone	100.0	102	102	30 - 150
sec-Butylbenzene	50.00	49.9	99.9	70 - 125
tert-Butylbenzene	50.00	52.1	104	70 - 130
Carbon disulfide	50.00	55.1	110	35 - 160
Carbon tetrachloride	50.00	54.9	110	65 - 140
Chlorobenzene	50.00	55.1	110	80 - 120
Chloroethane	50.00	61.9	124	60 - 135
Chloroform	50.00	56.8	114	65 - 135
Chloromethane	50.00	61.7	123	40 - 125
2-Chlorotoluene	50.00	51.4	103	75 - 125
4-Chlorotoluene	50.00	51.7	103	75 - 130
Dibromochloromethane	50.00	58.0	116	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.9	91.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.6	105	80 - 120
Dibromomethane	50.00	54.8	110	75 - 125
1,2-Dichlorobenzene	50.00	52.3	105	70 - 120
1,3-Dichlorobenzene	50.00	58.8	118	75 - 125
1,4-Dichlorobenzene	50.00	49.7	99.3	75 - 125
Dichlorodifluoromethane	50.00	58.6	117	30 - 155
1,1-Dichloroethane	50.00	57.9	116	70 - 135
1,2-Dichloroethane	50.00	60.8	122	70 - 130
1,1-Dichloroethene	50.00	56.1	112	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02009	Laboratory ID:	1E02009-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	57.5	115	75 - 125
1,3-Dichloropropane	50.00	52.6	105	75 - 125
2,2-Dichloropropane	50.00	53.3	107	70 - 135
1,1-Dichloropropene	50.00	52.3	105	75 - 130
cis-1,3-Dichloropropene	50.00	53.5	107	70 - 130
trans-1,3-Dichloropropene	50.00	58.9	118	55 - 140
Ethylbenzene	50.00	52.7	105	75 - 125
Hexachlorobutadiene	50.00	49.0	98.0	50 - 140
2-Hexanone	100.0	108	108	55 - 130
Isopropylbenzene	50.00	57.3	115	75 - 125
p-Isopropyltoluene	50.00	54.7	109	75 - 130
Methylene chloride	50.00	56.7	113	55 - 140
Naphthalene	50.00	50.1	100	55 - 140
4-Methyl-2-pentanone	100.0	102	102	60 - 135
Methyl t-Butyl Ether	50.00	52.8	106	65 - 125
n-Propylbenzene	50.00	50.5	101	70 - 130
Styrene	50.00	56.1	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	45.9	91.8	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.2	110	80 - 130
Tetrachloroethene	50.00	50.2	100	45 - 150
Toluene	50.00	53.5	107	75 - 120
1,2,3-Trichlorobenzene	50.00	48.4	96.9	55 - 140
1,2,4-Trichlorobenzene	50.00	47.7	95.5	65 - 135
1,1,2-Trichloroethane	50.00	50.0	100	75 - 125
1,1,1-Trichloroethane	50.00	54.9	110	65 - 130
Trichloroethene	50.00	59.1	118	70 - 125
Trichlorofluoromethane	50.00	57.2	114	60 - 145
1,2,3-Trichloropropane	50.00	54.9	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02009	Laboratory ID:	1E02009-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	50.5	101	75 - 130
1,2,4-Trimethylbenzene	50.00	51.7	103	75 - 130
Vinyl chloride	50.00	61.5	123	50 - 145
m,p-Xylene	100.0	104	104	75 - 130
o-Xylene	50.00	53.6	107	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04006	Laboratory ID:	1E04006-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	103	103	40 - 140
Benzene	50.00	51.5	103	80 - 120
Bromobenzene	50.00	52.4	105	75 - 125
Bromochloromethane	50.00	55.3	111	65 - 130
Bromodichloromethane	50.00	56.6	113	75 - 120
Bromoform	50.00	50.6	101	70 - 130
Bromomethane	50.00	33.7	67.4	30 - 145
n-Butylbenzene	50.00	54.7	109	70 - 135
2-Butanone	100.0	94.4	94.4	30 - 150
sec-Butylbenzene	50.00	56.3	113	70 - 125
tert-Butylbenzene	50.00	52.9	106	70 - 130
Carbon disulfide	50.00	55.6	111	35 - 160
Carbon tetrachloride	50.00	54.3	109	65 - 140
Chlorobenzene	50.00	55.2	110	80 - 120
Chloroethane	50.00	61.7	123	60 - 135
Chloroform	50.00	54.5	109	65 - 135
Chloromethane	50.00	42.4	84.8	40 - 125
2-Chlorotoluene	50.00	52.8	106	75 - 125
4-Chlorotoluene	50.00	57.2	114	75 - 130
Dibromochloromethane	50.00	56.6	113	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.5	93.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.6	107	80 - 120
Dibromomethane	50.00	51.7	103	75 - 125
1,2-Dichlorobenzene	50.00	53.3	107	70 - 120
1,3-Dichlorobenzene	50.00	51.0	102	75 - 125
1,4-Dichlorobenzene	50.00	56.9	114	75 - 125
Dichlorodifluoromethane	50.00	48.3	96.7	30 - 155
1,1-Dichloroethane	50.00	55.6	111	70 - 135
1,2-Dichloroethane	50.00	55.4	111	70 - 130
1,1-Dichloroethene	50.00	56.7	113	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04006	Laboratory ID:	1E04006-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	53.0	106	70 - 125
trans-1,2-Dichloroethene	50.00	54.3	109	60 - 140
1,2-Dichloropropane	50.00	54.1	108	75 - 125
1,3-Dichloropropane	50.00	47.9	95.7	75 - 125
2,2-Dichloropropane	50.00	56.2	112	70 - 135
1,1-Dichloropropene	50.00	52.7	105	75 - 130
cis-1,3-Dichloropropene	50.00	52.8	106	70 - 130
trans-1,3-Dichloropropene	50.00	59.4	119	55 - 140
Ethylbenzene	50.00	54.8	110	75 - 125
Hexachlorobutadiene	50.00	53.4	107	50 - 140
2-Hexanone	100.0	111	111	55 - 130
Isopropylbenzene	50.00	51.5	103	75 - 125
p-Isopropyltoluene	50.00	57.7	115	75 - 130
Methylene chloride	50.00	55.1	110	55 - 140
Naphthalene	50.00	51.6	103	55 - 140
4-Methyl-2-pentanone	100.0	107	107	60 - 135
Methyl t-Butyl Ether	50.00	53.2	106	65 - 125
n-Propylbenzene	50.00	52.5	105	70 - 130
Styrene	50.00	54.5	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	48.9	97.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.5	109	80 - 130
Tetrachloroethene	50.00	51.5	103	45 - 150
Toluene	50.00	53.2	106	75 - 120
1,2,3-Trichlorobenzene	50.00	49.2	98.4	55 - 140
1,2,4-Trichlorobenzene	50.00	48.0	96.0	65 - 135
1,1,2-Trichloroethane	50.00	51.5	103	75 - 125
1,1,1-Trichloroethane	50.00	51.6	103	65 - 130
Trichloroethene	50.00	49.4	98.8	70 - 125
Trichlorofluoromethane	50.00	57.3	115	60 - 145
1,2,3-Trichloropropane	50.00	51.0	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04006	Laboratory ID:	1E04006-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	57.2	114	75 - 130
1,2,4-Trimethylbenzene	50.00	53.7	107	75 - 130
Vinyl chloride	50.00	47.3	94.5	50 - 145
m,p-Xylene	100.0	107	107	75 - 130
o-Xylene	50.00	51.9	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04009	Laboratory ID:	1E04009-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	111	111	40 - 140
Benzene	50.00	54.4	109	80 - 120
Bromobenzene	50.00	51.6	103	75 - 125
Bromochloromethane	50.00	52.6	105	65 - 130
Bromodichloromethane	50.00	55.0	110	75 - 120
Bromoform	50.00	48.1	96.3	70 - 130
Bromomethane	50.00	49.5	99.1	30 - 145
n-Butylbenzene	50.00	51.4	103	70 - 135
2-Butanone	100.0	111	111	30 - 150
sec-Butylbenzene	50.00	49.5	99.0	70 - 125
tert-Butylbenzene	50.00	52.2	104	70 - 130
Carbon disulfide	50.00	55.3	111	35 - 160
Carbon tetrachloride	50.00	51.3	103	65 - 140
Chlorobenzene	50.00	50.8	102	80 - 120
Chloroethane	50.00	44.9	89.8	60 - 135
Chloroform	50.00	52.3	105	65 - 135
Chloromethane	50.00	55.4	111	40 - 125
2-Chlorotoluene	50.00	53.1	106	75 - 125
4-Chlorotoluene	50.00	55.2	110	75 - 130
Dibromochloromethane	50.00	51.4	103	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.1	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.6	101	80 - 120
Dibromomethane	50.00	55.3	111	75 - 125
1,2-Dichlorobenzene	50.00	52.3	105	70 - 120
1,3-Dichlorobenzene	50.00	49.4	98.8	75 - 125
1,4-Dichlorobenzene	50.00	47.7	95.4	75 - 125
Dichlorodifluoromethane	50.00	55.2	110	30 - 155
1,1-Dichloroethane	50.00	55.0	110	70 - 135
1,2-Dichloroethane	50.00	57.3	115	70 - 130
1,1-Dichloroethene	50.00	51.6	103	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04009	Laboratory ID:	1E04009-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	50.5	101	60 - 140
1,2-Dichloropropane	50.00	53.3	107	75 - 125
1,3-Dichloropropane	50.00	51.1	102	75 - 125
2,2-Dichloropropane	50.00	52.4	105	70 - 135
1,1-Dichloropropene	50.00	52.6	105	75 - 130
cis-1,3-Dichloropropene	50.00	51.7	103	70 - 130
trans-1,3-Dichloropropene	50.00	58.5	117	55 - 140
Ethylbenzene	50.00	51.0	102	75 - 125
Hexachlorobutadiene	50.00	49.5	99.0	50 - 140
2-Hexanone	100.0	100	100	55 - 130
Isopropylbenzene	50.00	52.5	105	75 - 125
p-Isopropyltoluene	50.00	52.1	104	75 - 130
Methylene chloride	50.00	53.8	108	55 - 140
Naphthalene	50.00	45.1	90.1	55 - 140
4-Methyl-2-pentanone	100.0	112	112	60 - 135
Methyl t-Butyl Ether	50.00	58.6	117	65 - 125
n-Propylbenzene	50.00	52.4	105	70 - 130
Styrene	50.00	51.8	104	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.8	106	65 - 130
1,1,1,2-Tetrachloroethane	50.00	49.3	98.7	80 - 130
Tetrachloroethene	50.00	48.0	95.9	45 - 150
Toluene	50.00	49.3	98.7	75 - 120
1,2,3-Trichlorobenzene	50.00	46.2	92.5	55 - 140
1,2,4-Trichlorobenzene	50.00	46.9	93.8	65 - 135
1,1,2-Trichloroethane	50.00	48.7	97.3	75 - 125
1,1,1-Trichloroethane	50.00	51.1	102	65 - 130
Trichloroethene	50.00	52.9	106	70 - 125
Trichlorofluoromethane	50.00	54.8	110	60 - 145
1,2,3-Trichloropropane	50.00	47.9	95.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04009	Laboratory ID:	1E04009-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	52.2	104	75 - 130
1,2,4-Trimethylbenzene	50.00	53.7	107	75 - 130
Vinyl chloride	50.00	39.4	78.9	50 - 145
m,p-Xylene	100.0	103	103	75 - 130
o-Xylene	50.00	50.9	102	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	111	111	0.325	30	40 - 140
Benzene	**50.00**	**60.5**	**121 ***	**10.6**	**30**	**80 - 120**
Bromobenzene	50.00	52.3	105	1.26	30	75 - 125
Bromochloromethane	50.00	53.6	107	1.86	30	65 - 130
Bromodichloromethane	50.00	55.5	111	0.908	30	75 - 120
Bromoform	50.00	45.6	91.2	5.44	30	70 - 130
Bromomethane	50.00	47.5	95.0	4.17	30	30 - 145
n-Butylbenzene	50.00	52.2	104	1.58	30	70 - 135
2-Butanone	100.0	98.5	98.5	11.8	30	30 - 150
sec-Butylbenzene	50.00	52.0	104	4.92	30	70 - 125
tert-Butylbenzene	50.00	53.2	106	1.74	30	70 - 130
Carbon disulfide	50.00	62.3	125	11.9	30	35 - 160
Carbon tetrachloride	50.00	51.0	102	0.665	30	65 - 140
Chlorobenzene	50.00	52.3	105	2.99	30	80 - 120
Chloroethane	50.00	51.0	102	12.6	30	60 - 135
Chloroform	50.00	54.3	109	3.74	30	65 - 135
Chloromethane	50.00	62.3	125	11.8	30	40 - 125
2-Chlorotoluene	50.00	54.1	108	1.75	30	75 - 125
4-Chlorotoluene	50.00	55.1	110	0.0658	30	75 - 130
Dibromochloromethane	50.00	52.9	106	2.87	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.4	103	0.659	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.1	104	2.97	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04009	Laboratory ID:	1E04009-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	56.8	114	2.57	30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	2.91	30	70 - 120
1,3-Dichlorobenzene	50.00	50.3	101	1.90	30	75 - 125
1,4-Dichlorobenzene	50.00	47.1	94.2	1.22	30	75 - 125
Dichlorodifluoromethane	50.00	51.5	103	6.90	30	30 - 155
1,1-Dichloroethane	50.00	60.3	121	9.30	30	70 - 135
1,2-Dichloroethane	50.00	57.8	116	0.943	30	70 - 130
1,1-Dichloroethene	50.00	56.5	113	9.11	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.5	111	5.11	30	70 - 125
trans-1,2-Dichloroethene	50.00	55.2	110	8.81	30	60 - 140
1,2-Dichloropropane	50.00	58.4	117	9.08	30	75 - 125
1,3-Dichloropropane	50.00	53.0	106	3.52	30	75 - 125
2,2-Dichloropropane	50.00	47.1	94.3	10.6	30	70 - 135
1,1-Dichloropropene	50.00	55.6	111	5.72	30	75 - 130
cis-1,3-Dichloropropene	50.00	52.5	105	1.54	30	70 - 130
trans-1,3-Dichloropropene	50.00	56.0	112	4.40	30	55 - 140
Ethylbenzene	50.00	53.8	108	5.20	30	75 - 125
Hexachlorobutadiene	50.00	45.7	91.5	7.92	30	50 - 140
2-Hexanone	100.0	90.7	90.7	9.89	30	55 - 130
Isopropylbenzene	50.00	55.0	110	4.67	30	75 - 125
p-Isopropyltoluene	50.00	54.6	109	4.69	30	75 - 130
Methylene chloride	50.00	58.9	118	9.05	30	55 - 140
Naphthalene	50.00	41.8	83.5	7.58	30	55 - 140
4-Methyl-2-pentanone	100.0	105	105	6.41	30	60 - 135
Methyl t-Butyl Ether	50.00	58.0	116	0.897	30	65 - 125
n-Propylbenzene	50.00	54.8	110	4.57	30	70 - 130
Styrene	50.00	52.8	106	1.95	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	55.4	111	4.70	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.7	101	2.82	30	80 - 130
Tetrachloroethene	50.00	51.6	103	7.27	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04009	Laboratory ID:	1E04009-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	51.0	102	3.25	30	75 - 120
1,2,3-Trichlorobenzene	50.00	46.1	92.2	0.264	30	55 - 140
1,2,4-Trichlorobenzene	50.00	46.0	91.9	2.04	30	65 - 135
1,1,2-Trichloroethane	50.00	51.1	102	4.92	30	75 - 125
1,1,1-Trichloroethane	50.00	51.9	104	1.62	30	65 - 130
Trichloroethene	50.00	56.0	112	5.80	30	70 - 125
Trichlorofluoromethane	50.00	56.3	113	2.73	30	60 - 145
1,2,3-Trichloropropane	50.00	46.1	92.3	3.79	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.1	106	1.69	30	75 - 130
1,2,4-Trimethylbenzene	50.00	53.9	108	0.468	30	75 - 130
Vinyl chloride	50.00	49.7	99.4	23.0	30	50 - 145
m,p-Xylene	100.0	104	104	1.26	30	75 - 130
o-Xylene	50.00	51.2	102	0.609	30	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Laboratory:

SDG:

Client:

Project:

Matrix:

Batch:

% Solids:

Source Sample Name:

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1D30002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	04/30/11 00:00	5.00	5.00
GW0062	1104286-03	04/30/11 00:00	5.00	5.00
GW0063	1104286-05	04/30/11 00:00	5.00	5.00
GW8032-TB	1104289-03	04/30/11 00:00	5.00	5.00
Blank	1D30002-BLK1	04/30/11 00:00	5.00	5.00
LCS	1D30002-BS1	04/30/11 00:00	5.00	5.00
LCS Dup	1D30002-BSD1	04/30/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E02009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0058	1104289-01	05/02/11 00:00	5.00	5.00
GW0067	1104307-01	05/02/11 00:00	5.00	5.00
GW0068	1104307-03	05/02/11 00:00	5.00	5.00
GW8012-AB	1104307-05	05/02/11 00:00	5.00	5.00
GW8033-TB	1104307-06	05/02/11 00:00	5.00	5.00
Blank	1E02009-BLK1	05/02/11 00:00	5.00	5.00
LCS	1E02009-BS1	05/02/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E04006 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0043	1105015-01	05/04/11 00:00	5.00	5.00
GW8034-TB	1105015-03	05/04/11 00:00	5.00	5.00
Blank	1E04006-BLK1	05/04/11 00:00	5.00	5.00
LCS	1E04006-BS1	05/04/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E04009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8031-TB	1104286-07	05/04/11 00:00	5.00	5.00
Blank	1E04009-BLK1	05/04/11 00:00	5.00	5.00
LCS	1E04009-BS1	05/04/11 00:00	5.00	5.00
LCS Dup	1E04009-BSD1	05/04/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0322TU1.D	Injection Date:	03/22/11
Instrument ID:	MS-VOA4	Injection Time:	11:42
Sequence:	1C08402	Lab Sample ID:	1C08402-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.8	PASS
75	30 - 60% of 95	40.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.26	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	78.8	PASS
175	5 - 9% of 174	8.17	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	7.34	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0324TU2.D	Injection Date:	03/24/11
Instrument ID:	MS-VOA4	Injection Time:	11:41
Sequence:	1C08402	Lab Sample ID:	1C08402-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.7	PASS
75	30 - 60% of 95	44	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.41	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	65.9	PASS
175	5 - 9% of 174	8.4	PASS
176	95 - 101% of 174	98.2	PASS
177	5 - 9% of 176	7.73	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0415TU1.D	Injection Date:	04/15/11
Instrument ID:	MS-VOA5	Injection Time:	08:29
Sequence:	1D10810	Lab Sample ID:	1D10810-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.4	PASS
75	30 - 60% of 95	38.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.52	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	101	PASS
175	5 - 9% of 174	7.11	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	5.75	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0430TU1.D	Injection Date:	04/30/11
Instrument ID:	MS-VOA4	Injection Time:	08:58
Sequence:	1E12206	Lab Sample ID:	1E12206-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.7	PASS
75	30 - 60% of 95	39.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.51	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	99.2	PASS
175	5 - 9% of 174	7.55	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.89	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0502TU1E.D	Injection Date:	05/02/11
Instrument ID:	MS-VOA4	Injection Time:	18:42
Sequence:	1E12309	Lab Sample ID:	1E12309-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.5	PASS
75	30 - 60% of 95	45.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.13	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	53.8	PASS
175	5 - 9% of 174	6.11	PASS
176	95 - 101% of 174	95.2	PASS
177	5 - 9% of 176	6.85	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0504TU1.D	Injection Date:	05/04/11
Instrument ID:	MS-VOA4	Injection Time:	08:52
Sequence:	1E12504	Lab Sample ID:	1E12504-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.7	PASS
75	30 - 60% of 95	43.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.9	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	68	PASS
175	5 - 9% of 174	7.4	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	7.74	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0504TU1.D	Injection Date:	05/04/11
Instrument ID:	MS-VOA5	Injection Time:	09:16
Sequence:	1E12611	Lab Sample ID:	1E12611-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.3	PASS
75	30 - 60% of 95	39.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.31	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77	PASS
175	5 - 9% of 174	6.77	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	5.34	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C08402	Instrument:	MS-VOA4
Calibration:	1084001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C08402-TUN1	0322TU1.D	03/22/11 11:42
Cal Standard	1C08402-CAL1	0322CAL1.D	03/22/11 12:12
Cal Standard	1C08402-CAL2	0322CAL2.D	03/22/11 12:42
Cal Standard	1C08402-CAL3	0322CAL3.D	03/22/11 13:11
Cal Standard	1C08402-CAL4	0322CAL4.D	03/22/11 13:41
Cal Standard	1C08402-CAL5	0322CAL5.D	03/22/11 14:11
Cal Standard	1C08402-CAL6	0322CAL6.D	03/22/11 14:41
Cal Standard	1C08402-CAL7	0322CAL7.D	03/22/11 15:10
Cal Standard	1C08402-CAL8	0322CAL8.D	03/22/11 15:40
Cal Standard	1C08402-CAL9	0322CAL9.D	03/22/11 16:10
Initial Cal Check	1C08402-ICV2	0322ICV2.D	03/22/11 17:09
Cal Standard	1C08402-CALA	0322CALA.D	03/22/11 17:39
Cal Standard	1C08402-CALB	0322CALB.D	03/22/11 18:09
Cal Standard	1C08402-CALC	0322CALC.D	03/22/11 18:38
Cal Standard	1C08402-CALD	0322CALD.D	03/22/11 19:08
Cal Standard	1C08402-CALE	0322CALE.D	03/22/11 19:37
Cal Standard	1C08402-CALF	0322CALF.D	03/22/11 20:07
Cal Standard	1C08402-CALG	0322CALG.D	03/22/11 20:37
Cal Standard	1C08402-CALH	0322CALH.D	03/22/11 21:07
Cal Standard	1C08402-CALI	0322CALI.D	03/22/11 21:36
Initial Cal Check	1C08402-ICV4	0322ICV4.D	03/22/11 22:35
MS Tune	1C08402-TUN2	0324TU2.D	03/24/11 11:41
Cal Standard	1C08402-CALJ	0324CALJ.D	03/24/11 12:10
Cal Standard	1C08402-CALK	0324CALK.D	03/24/11 12:40
Cal Standard	1C08402-CALL	0324CALL.D	03/24/11 13:09
Cal Standard	1C08402-CALM	0324CALM.D	03/24/11 13:39
Cal Standard	1C08402-CALN	0324CALN.D	03/24/11 14:09
Cal Standard	1C08402-CALO	0324CALO.D	03/24/11 14:38
Cal Standard	1C08402-CALP	0324CALP.D	03/24/11 15:08
Cal Standard	1C08402-CALQ	0324CALQ.D	03/24/11 15:37
Cal Standard	1C08402-CALR	0324CALR.D	03/24/11 16:07

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D10810	Instrument:	MS-VOA5
Calibration:	1110001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1D10810-TUN1	0415TU1.D	04/15/11 08:29
Cal Standard	1D10810-CAL1	0415CAL1.D	04/15/11 09:53
Cal Standard	1D10810-CAL2	0415CAL2.D	04/15/11 10:18
Cal Standard	1D10810-CAL3	0415CAL3.D	04/15/11 10:43
Cal Standard	1D10810-CAL4	0415CAL4.D	04/15/11 11:07
Cal Standard	1D10810-CAL5	0415CAL5.D	04/15/11 11:32
Cal Standard	1D10810-CAL6	0415CAL6.D	04/15/11 11:57
Cal Standard	1D10810-CAL7	0415CAL7.D	04/15/11 12:22
Cal Standard	1D10810-CAL8	0415CAL8.D	04/15/11 12:47
Cal Standard	1D10810-CAL9	0415CAL9.D	04/15/11 13:12
Initial Cal Check	1D10810-ICV2	0415ICV2.D	04/15/11 14:01
Cal Standard	1D10810-CALA	0415CALA.D	04/15/11 14:26
Cal Standard	1D10810-CALB	0415CALB.D	04/15/11 14:51
Cal Standard	1D10810-CALC	0415CALC.D	04/15/11 15:16
Cal Standard	1D10810-CALD	0415CALD.D	04/15/11 15:41
Cal Standard	1D10810-CALE	0415CALE.D	04/15/11 16:05
Cal Standard	1D10810-CALF	0415CALF.D	04/15/11 16:30
Cal Standard	1D10810-CALG	0415CALG.D	04/15/11 16:55
Cal Standard	1D10810-CALH	0415CALH.D	04/15/11 17:20
Cal Standard	1D10810-CALI	0415CALI.D	04/15/11 17:45
Initial Cal Check	1D10810-ICV4	0415ICV4.D	04/15/11 18:35

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12206	Instrument:	MS-VOA4
Calibration:	1084001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12206-TUN1	0430TU1.D	04/30/11 08:58
Calibration Check	1E12206-CCV1	0430CCV1.D	04/30/11 09:28
LCS	1D30002-BS1	0430LCS1.D	04/30/11 10:08
Blank	1D30002-BLK1	0430BL1.D	04/30/11 11:37
GW8032-TB	1104289-03	0428903.D	04/30/11 12:08
GW0061	1104286-01	0428601.D	04/30/11 15:06
GW0062	1104286-03	0428603.D	04/30/11 15:36
GW0063	1104286-05	0428605D.D	04/30/11 16:06
LCS Dup	1D30002-BSD1	0430LCD1.D	04/30/11 19:34

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12309	Instrument:	MS-VOA4
Calibration:	1084001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12309-TUN1	0502TU1E.D	05/02/11 18:42
Calibration Check	1E12309-CCV1	0502CCVE.D	05/02/11 19:12
LCS	1E02009-BS1	0502LCSE.D	05/02/11 19:42
Blank	1E02009-BLK1	0502BL1E.D	05/02/11 21:10
GW8033-TB	1104307-06	0430706.D	05/02/11 22:09
GW8012-AB	1104307-05	0430705.D	05/02/11 22:39
GW0067	1104307-01	0430701.D	05/03/11 01:07
GW0068	1104307-03	0430703.D	05/03/11 01:37
GW0058	1104289-01	0428901.D	05/03/11 02:06

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12504	Instrument:	MS-VOA4
Calibration:	1084001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12504-TUN1	0504TU1.D	05/04/11 08:52
Calibration Check	1E12504-CCV1	0504CCV1.D	05/04/11 09:21
LCS	1E04006-BS1	0504LCS1.D	05/04/11 10:08
Blank	1E04006-BLK1	0504BL1.D	05/04/11 11:37
GW8034-TB	1105015-03	0501503.D	05/04/11 13:06
GW0043	1105015-01	0501501.D	05/04/11 17:33

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12611	Instrument:	MS-VOA5
Calibration:	1110001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12611-TUN1	0504TU1.D	05/04/11 09:16
Calibration Check	1E12611-CCV1	0504CC1.D	05/04/11 09:41
LCS	1E04009-BS1	0504LS1.D	05/04/11 10:19
Blank	1E04009-BLK1	0504BL1.D	05/04/11 11:33
GW8031-TB	1104286-07	0428607.D	05/04/11 12:00
LCS Dup	1E04009-BSD1	0504LD1.D	05/04/11 20:41

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12206	Instrument:	MS-VOA4
		Calibration:	1084001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12206-CCV1)			Lab File ID: 0430CCV1.D			Analyzed: 04/30/11 09:28			
Fluorobenzene	1392078	11.742	1274925	11.745	109	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	561545	15.481	473989	15.484	118	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	695733	17.375	606491	17.378	115	50 - 200	-0.0030	+/-0.50	
LCS (1D30002-BS1)			Lab File ID: 0430LCS1.D			Analyzed: 04/30/11 10:08			
Fluorobenzene	1483527	11.745	1392078	11.742	107	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	549773	15.484	561545	15.481	98	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	688808	17.378	695733	17.375	99	50 - 200	0.0030	+/-0.50	
Blank (1D30002-BLK1)			Lab File ID: 0430BL1.D			Analyzed: 04/30/11 11:37			
Fluorobenzene	1304116	11.742	1392078	11.742	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	514475	15.481	561545	15.481	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	608662	17.375	695733	17.375	87	50 - 200	0.0000	+/-0.50	
GW8032-TB (1104289-03)			Lab File ID: 0428903.D			Analyzed: 04/30/11 12:08			
Fluorobenzene	1294428	11.735	1392078	11.742	93	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	505239	15.474	561545	15.481	90	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	597508	17.368	695733	17.375	86	50 - 200	-0.0070	+/-0.50	
GW0061 (1104286-01)			Lab File ID: 0428601.D			Analyzed: 04/30/11 15:06			
Fluorobenzene	1250017	11.738	1392078	11.742	90	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	488811	15.477	561545	15.481	87	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	576013	17.371	695733	17.375	83	50 - 200	-0.0040	+/-0.50	
GW0062 (1104286-03)			Lab File ID: 0428603.D			Analyzed: 04/30/11 15:36			
Fluorobenzene	1191268	11.741	1392078	11.742	86	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	482713	15.48	561545	15.481	86	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	575011	17.374	695733	17.375	83	50 - 200	-0.0010	+/-0.50	
GW0063 (1104286-05)			Lab File ID: 0428605D.D			Analyzed: 04/30/11 16:06			
Fluorobenzene	1207535	11.737	1392078	11.742	87	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	493893	15.476	561545	15.481	88	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	553971	17.37	695733	17.375	80	50 - 200	-0.0050	+/-0.50	
LCS Dup (1D30002-BSD1)			Lab File ID: 0430LCD1.D			Analyzed: 04/30/11 19:34			
Fluorobenzene	1380848	11.736	1392078	11.742	99	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	508833	15.475	561545	15.481	91	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	645056	17.369	695733	17.375	93	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12309	Instrument:	MS-VOA4
		Calibration:	1084001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12309-CCV1)			Lab File ID: 0502CCVE.D			Analyzed: 05/02/11 19:12			
Fluorobenzene	1359443	11.739	1274925	11.745	107	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	609909	15.478	473989	15.484	129	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	685763	17.372	606491	17.378	113	50 - 200	-0.0060	+/-0.50	
LCS (1E02009-BS1)			Lab File ID: 0502LCSE.D			Analyzed: 05/02/11 19:42			
Fluorobenzene	1457641	11.746	1359443	11.739	107	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	557479	15.475	609909	15.478	91	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	702468	17.369	685763	17.372	102	50 - 200	-0.0030	+/-0.50	
Blank (1E02009-BLK1)			Lab File ID: 0502BL1E.D			Analyzed: 05/02/11 21:10			
Fluorobenzene	1374323	11.746	1359443	11.739	101	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	560133	15.475	609909	15.478	92	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	640377	17.379	685763	17.372	93	50 - 200	0.0070	+/-0.50	
GW8033-TB (1104307-06)			Lab File ID: 0430706.D			Analyzed: 05/02/11 22:09			
Fluorobenzene	1310492	11.736	1359443	11.739	96	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	533037	15.475	609909	15.478	87	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	606418	17.369	685763	17.372	88	50 - 200	-0.0030	+/-0.50	
GW8012-AB (1104307-05)			Lab File ID: 0430705.D			Analyzed: 05/02/11 22:39			
Fluorobenzene	1247788	11.742	1359443	11.739	92	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	508399	15.481	609909	15.478	83	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	589870	17.375	685763	17.372	86	50 - 200	0.0030	+/-0.50	
GW0067 (1104307-01)			Lab File ID: 0430701.D			Analyzed: 05/03/11 01:07			
Fluorobenzene	1305882	11.746	1359443	11.739	96	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	516045	15.475	609909	15.478	85	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	572959	17.369	685763	17.372	84	50 - 200	-0.0030	+/-0.50	
GW0068 (1104307-03)			Lab File ID: 0430703.D			Analyzed: 05/03/11 01:37			
Fluorobenzene	1240893	11.741	1359443	11.739	91	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	489068	15.48	609909	15.478	80	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	572282	17.374	685763	17.372	83	50 - 200	0.0020	+/-0.50	
GW0058 (1104289-01)			Lab File ID: 0428901.D			Analyzed: 05/03/11 02:06			
Fluorobenzene	1471088	11.74	1359443	11.739	108	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	566349	15.478	609909	15.478	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	654709	17.373	685763	17.372	95	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12504	Instrument:	MS-VOA4
		Calibration:	1084001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12504-CCV1)			Lab File ID: 0504CCV1.D			Analyzed: 05/04/11 09:21			
Fluorobenzene	1602472	11.716	1274925	11.745	126	50 - 200	-0.0290	+/-0.50	
Chlorobenzene-d5	613238	15.465	473989	15.484	129	50 - 200	-0.0190	+/-0.50	
1,4-Dichlorobenzene-d4	733635	17.359	606491	17.378	121	50 - 200	-0.0190	+/-0.50	
LCS (1E04006-BS1)			Lab File ID: 0504LCS1.D			Analyzed: 05/04/11 10:08			
Fluorobenzene	1816329	11.716	1602472	11.716	113	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	656710	15.464	613238	15.465	107	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	770211	17.358	733635	17.359	105	50 - 200	-0.0010	+/-0.50	
Blank (1E04006-BLK1)			Lab File ID: 0504BL1.D			Analyzed: 05/04/11 11:37			
Fluorobenzene	1462238	11.721	1602472	11.716	91	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	516155	15.46	613238	15.465	84	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	632887	17.354	733635	17.359	86	50 - 200	-0.0050	+/-0.50	
GW8034-TB (1105015-03)			Lab File ID: 0501503.D			Analyzed: 05/04/11 13:06			
Fluorobenzene	1386320	11.718	1602472	11.716	87	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	518973	15.467	613238	15.465	85	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	589890	17.361	733635	17.359	80	50 - 200	0.0020	+/-0.50	
GW0043 (1105015-01)			Lab File ID: 0501501.D			Analyzed: 05/04/11 17:33			
Fluorobenzene	1385113	11.716	1602472	11.716	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	513606	15.465	613238	15.465	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	611108	17.359	733635	17.359	83	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12611	Instrument:	MS-VOA5
		Calibration:	1110001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12611-CCV1)			Lab File ID: 0504CC1.D			Analyzed: 05/04/11 09:41			
Fluorobenzene	1301847	7.897	1328259	7.92	98	50 - 200	-0.0230	+/-0.50	
Chlorobenzene-d5	604348	11.029	600438	11.052	101	50 - 200	-0.0230	+/-0.50	
1,4-Dichlorobenzene-d4	502003	13.432	522137	13.456	96	50 - 200	-0.0240	+/-0.50	
LCS (1E04009-BS1)			Lab File ID: 0504LS1.D			Analyzed: 05/04/11 10:19			
Fluorobenzene	1311618	7.892	1301847	7.897	101	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	586409	11.024	604348	11.029	97	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	499075	13.428	502003	13.432	99	50 - 200	-0.0040	+/-0.50	
Blank (1E04009-BLK1)			Lab File ID: 0504BL1.D			Analyzed: 05/04/11 11:33			
Fluorobenzene	1422421	7.896	1301847	7.897	109	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	603549	11.028	604348	11.029	100	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	492200	13.431	502003	13.432	98	50 - 200	-0.0010	+/-0.50	
GW8031-TB (1104286-07)			Lab File ID: 0428607.D			Analyzed: 05/04/11 12:00			
Fluorobenzene	1377654	7.891	1301847	7.897	106	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	585850	11.023	604348	11.029	97	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	469162	13.426	502003	13.432	93	50 - 200	-0.0060	+/-0.50	
LCS Dup (1E04009-BSD1)			Lab File ID: 0504LD1.D			Analyzed: 05/04/11 20:41			
Fluorobenzene	974197	7.899	1301847	7.897	75	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	433687	11.032	604348	11.029	72	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	370689	13.425	502003	13.432	74	50 - 200	-0.0070	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11_12:12 3/24/11_16:07

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	3.978466E-02	5.002	3.928834E-02	10	4.253908E-02	25.01	2.731485E-02	50.02	3.140532E-02	250.1	3.036773E-02
Acrylonitrile	2.499	8.134307E-02	4.998	8.374894E-02	9.996	8.906298E-02	24.99	8.991062E-02	49.98	9.363115E-02	249.9	9.376586E-02
Benzene	0.5	0.7586241	1	0.8781914	2	0.8655253	5	0.8398939	10	0.9288837	50	0.8274038
Bromobenzene	0.5	0.7005351	1	0.6862941	2	0.696113	5	0.7248238	10	0.752053	50	0.699133
Bromochloromethane	0.5	0.1159098	1	0.1613588	2	0.1623518	5	0.1583009	10	0.1614814	50	0.1561146
Tert-Amyl Methyl Ether	0.5	1.121208	1	0.8368573	2	0.7559324	5	0.647324	10	0.6791465	50	0.6534345
Bromodichloromethane	0.5	0.2846097	1	0.2924256	2	0.2984444	5	0.2904109	10	0.316799	50	0.2911146
Bromoform	0.5	0.4777661	1	0.535263	2	0.589529	5	0.632814	10	0.6274487	50	0.6532824
Bromomethane	0.5	0.1754187	1	0.1489677	2	0.1637254	5	0.1613011	10	0.1626718	50	0.1589318
Bromofluorobenzene												
n-Butylbenzene	0.5	1.029237	1	1.123744	2	1.158631	5	1.174992	10	1.261893	50	1.150288
2-Butanone												
sec-Butylbenzene	0.5	1.599558	1	1.635254	2	1.646141	5	1.587128	10	1.699572	50	1.696938
tert-Butylbenzene	0.5	1.09884	1	1.150408	2	1.116239	5	1.141005	10	1.220844	50	1.151853
Carbon disulfide	0.5	0.7540992	1	0.7488621	2	0.7263306	5	0.7129317	10	0.7911206	50	0.7953258
Carbon tetrachloride	0.5	0.2353846	1	0.2650143	2	0.2635427	5	0.2613502	10	0.2832567	50	0.2626678
Chlorobenzene	0.5	1.580499	1	1.671745	2	1.761321	5	1.622034	10	1.750736	50	1.667257
Chloroethane	0.5	~~9.552503E-02~~	1	0.1584096	2	0.126397	5	0.1358975	10	0.1258298	50	0.1093987
Chloroform	0.5	0.4165622	1	0.4226466	2	0.4088729	5	0.3899196	10	0.4173004	50	0.3875665
2-Chloroethyl vinyl ether	0.9975	0.1309773	1.995	0.1277856	3.99	0.147565	9.975	0.1525375	19.95	0.15753	99.75	0.1553568
Chloromethane	0.5	0.2355675	1	0.2411466	2	0.2221735	5	0.2317445	10	0.2418858	50	0.214813
1-Chlorohexane	0.501	1.431649	1.002	1.479964	2.004	1.411391	5.01	1.353161	10.02	1.468627	50.1	1.408228
2-Chlorotoluene	0.5	1.377767	1	1.391655	2	1.396144	5	1.37348	10	1.401616	50	1.357754
4-Chlorotoluene	0.5	1.390849	1	1.502916	2	1.230031	5	1.242967	10	1.46381	50	1.484338
Cyclohexane	0.5	0.2504675	1	0.2829837	2	0.2853949	5	0.2787363	10	0.3070252	50	0.3010098
Dibromochloromethane	0.5	0.6084631	1	0.7145368	2	0.7324282	5	0.734886	10	0.7709525	50	0.7886586
1,2-Dibromo-3-chloropropane	0.5	0.1519836	1	0.1317006	2	0.1426782	5	0.1674328	10	0.1551393	50	0.1579157
1,2-Dibromoethane (EDB)	0.5	0.59293	1	0.7172824	2	0.6972445	5	0.6967422	10	0.7028874	50	0.7238102
Dibromomethane	0.5	0.1703911	1	0.1766076	2	0.1824526	5	0.1668216	10	0.1778592	50	0.1730374
1,2-Dichlorobenzene	0.5	1.029339	1	1.005081	2	1.048027	5	1.142129	10	1.136355	50	1.037115

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11_12:12 3/24/11_16:07

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	1.021571	1	1.167219	2	1.124415	5	1.119113	10	1.124312	50	1.055985
1,4-Dichlorobenzene	0.5	1.282713	1	1.29941	2	1.153374	5	1.244397	10	1.248385	50	1.16395
Dichlorodifluoromethane	0.5	0.2061787	1	0.2032874	2	0.1969215	5	0.2275517	10	0.2409189	50	0.2321125
1,1-Dichloroethane	0.5	0.3911955	1	0.4193088	2	0.4240859	5	0.4182349	10	0.4426926	50	0.4105168
1,2-Dichloroethane	0.5	0.2516559	1	0.2691752	2	0.279328	5	0.2687808	10	0.2926154	50	0.2599156
1,1-Dichloroethene	0.5	0.2225413	1	0.2167301	2	0.2237074	5	0.2274073	10	0.2328805	50	0.2194557
cis-1,2-Dichloroethene	0.5	0.2581461	1	0.2691066	2	0.278252	5	0.2609076	10	0.2857993	50	0.2709842
trans-1,2-Dichloroethene	0.5	0.2673787	1	0.2553209	2	0.2505504	5	0.2452359	10	0.2581267	50	0.2553254
1,2-Dichloroethene (total)	1	0.2627624	2	0.2622137	4	0.2644012	10	0.2530718	20	0.271963	100	0.2631548
1,2-Dichloropropane	0.5	0.2265634	1	0.2408951	2	0.2289615	5	0.2309572	10	0.2351792	50	0.2345344
1,3-Dichloropropane	0.5	0.9783466	1	0.9612021	2	0.9414902	5	0.8645976	10	0.939351	50	0.9345523
2,2-Dichloropropane	0.5	0.254581	1	0.245879	2	0.2829109	5	0.2684826	10	0.2810333	50	0.2671001
1,1-Dichloropropene	0.5	0.2645906	1	0.2889506	2	0.281915	5	0.2786245	10	0.3073422	50	0.2880989
cis-1,3-Dichloropropene	0.5	0.3085595	1	0.3288217	2	0.3324875	5	0.3412274	10	0.3634033	50	0.3561805
trans-1,3-Dichloropropene	0.5	0.6290931	1	0.7126024	2	0.7824522	5	0.7905787	10	0.86926	50	0.8300399
Diisopropyl Ether	0.5	0.7989823	1	0.8050336	2	0.8581992	5	0.8041667	10	0.8765601	50	0.8585423
Ethylbenzene	0.5	2.252794	1	2.364193	2	2.416147	5	2.378781	10	2.589711	50	2.505169
Ethyl tert-Butyl Ether	0.5	0.6255747	1	0.6447493	2	0.6447941	5	0.6478224	10	0.7058362	50	0.6845645
Ethyl Methacrylate	0.5	0.5220599	1	0.6329182	2	0.7084983	5	0.7076852	10	0.7265532	50	0.8481303
Hexachlorobutadiene	0.5	0.3304391	1	0.2775173	2	0.2232526	5	0.2524875	10	0.2493971	50	0.2439483
2-Hexanone												
Iodomethane	0.5	0.2639507	1	0.2843783	2	0.315031	5	0.3476377	10	0.4094468	50	0.4406804
Isopropylbenzene	0.5	1.83619	1	1.95585	2	2.073554	5	1.93552	10	1.97805	50	2.011397
p-Isopropyltoluene	0.5	1.311331	1	1.264953	2	1.292451	5	1.289825	10	1.407319	50	1.277777
Methylene chloride	0.5	0.261894	1	0.3084975	2	0.2979636	5	0.2664654	10	0.3009639	50	0.283224
Methyl Acetate	0.5	0.2238211	1	0.2061451	2	0.2005044	5	0.1986867	10	0.2046743	50	0.1959311
Methylcyclohexane	0.5	0.2254208	1	0.215427	2	0.2268896	5	0.2202563	10	0.2319387	50	0.2209519
Naphthalene	0.5	1.334839	1	1.320486	2	1.283496	5	1.58624	10	1.423896	50	1.448621
Methyl Methacrylate	0.5	0.1579134	1	0.1386113	2	0.1741879	5	0.1739633	10	0.1913591	50	0.1995946
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5364484	1	0.6012889	2	0.5755173	5	0.5589447	10	0.6255618	50	0.5920784

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11_12:12 3/24/11_16:07

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	1.883186	1	1.988645	2	2.015284	5	2.060088	10	2.292267	50	2.07247
Styrene	0.5	1.426988	1	1.635366	2	1.70666	5	1.72561	10	1.764601	50	1.712829
1,1,2,2-Tetrachloroethane	0.5	0.5822802	1	0.6330158	2	0.680368	5	0.7209317	10	0.6939088	50	0.6365883
1,1,1,2-Tetrachloroethane	0.5	0.5490003	1	0.6204383	2	0.6132115	5	0.6335661	10	0.6648395	50	0.6499643
tert-Butyl alcohol	2.5	2.649106E-02	5	2.456732E-02	10	2.060218E-02	25	2.472345E-02	50	2.254989E-02	250	2.200911E-02
Tetrachloroethene	0.5	0.6574897	1	0.7195288	2	0.7629126	5	0.7129749	10	0.749343	50	0.781376
Toluene	0.5	1.205519	1	1.42377	2	1.419532	5	1.414681	10	1.454001	50	1.421435
1,2,3-Trichlorobenzene	0.5	0.6419698	1	0.5893934	2	0.5698125	5	0.6160588	10	0.6123299	50	0.5959386
1,2,4-Trichlorobenzene	0.5	0.6840795	1	0.6780597	2	0.6297748	5	0.6530698	10	0.6718987	50	0.6362987
1,1,2-Trichloroethane	0.5	0.4686647	1	0.5482421	2	0.5003638	5	0.4990536	10	0.5266286	50	0.517756
1,1,1-Trichloroethane	0.5	0.2788051	1	0.2896594	2	0.3031147	5	0.2948506	10	0.3072852	50	0.3012649
Tetrahydrofuran	0.5		1		2	6.678139E-02	5	6.437321E-02	10	6.543814E-02	50	5.789592E-02
Trichloroethene	0.5	0.2241867	1	0.2450331	2	0.2377871	5	0.2354388	10	0.2519674	50	0.2407021
Trichlorofluoromethane	0.5	0.2973616	1	0.3197913	2	0.3446556	5	0.3338574	10	0.368817	50	0.3411787
1,2,3-Trichloropropane	0.5	0.1810584	1	0.2076032	2	0.1963551	5	0.2043822	10	0.1856886	50	0.2079154
1,3,5-Trimethylbenzene	0.5	1.215358	1	1.364011	2	1.278994	5	1.396251	10	1.468959	50	1.386281
1,2,4-Trimethylbenzene	0.5	1.453401	1	1.411799	2	1.413276	5	1.509071	10	1.563578	50	1.461243
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2113434	1	0.2265836	2	0.2416447	5	0.230086	10	0.2441297	50	0.2384583
Vinyl chloride	0.5	0.2243238	1	0.193754	2	0.1939568	5	0.207063	10	0.2294873	50	0.1924153
m,p-Xylene	1	1.659257	2	1.892764	4	1.826217	10	1.786361	20	1.848344	100	1.903752
o-Xylene	0.5	1.809735	1	2.034162	2	2.058157	5	1.980007	10	2.097219	50	1.904193
Vinyl acetate	0.9995		1.999	0.1997637	3.998	0.2209446	9.995	0.2394112	19.99	0.2685764	99.95	0.2937542
Xylenes (total)	1.5	1.709417	3	1.939897	6	1.90353	15	1.850909	30	1.931302	150	1.903899
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	2.5		5		10	1.240618E-02	25	1.520676E-02	50	1.347849E-02	250	1.416173E-02
tert-Amyl ethyl ether	0.5	0.4587944	1	0.5134538	2	0.5245327	5	0.5013312	10	0.5533532	50	0.5301972

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11 12:12 3/24/11 16:07

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	9.676416E-02	2	8.053093E-02	4	8.420424E-02
Acrolein	500.2	3.173887E-02	750.3	2.937506E-02	1000	2.768902E-02						
Acrylonitrile	499.8	9.864455E-02	749.7	9.294596E-02	999.6	9.375583E-02						
Benzene	100	0.9144761	150	0.873771	200	0.8515421						
Bromobenzene	100	0.7048626	150	0.6539573	200	0.7106032						
Bromochloromethane	100	0.1693457	150	0.1644463	200	0.1653773						
Tert-Amyl Methyl Ether	100	0.6547025	150	0.6530024	200	0.6596239						
Bromodichloromethane	100	0.3080737	150	0.3010907	200	0.2946025						
Bromoform	100	0.6799253	150	0.6434859	200	0.6324485						
Bromomethane	100	0.1832905	150	0.1817661	200	0.1913007						
Bromofluorobenzene							30	0.9635724	30	0.9440623	40	0.8912567
n-Butylbenzene	100	1.16328	150	1.12078	200	1.169286						
2-Butanone							1		2	8.254808E-02	4	9.520534E-02
sec-Butylbenzene	100	1.5481	150	1.474173	200	1.596414						
tert-Butylbenzene	100	1.153988	150	1.024961	200	1.118953						
Carbon disulfide	100	0.8193305	150	0.7928191	200	0.8127577						
Carbon tetrachloride	100	0.2859138	150	0.2731241	200	0.2809683						
Chlorobenzene	100	1.622015	150	1.511716	200	1.453362						
Chloroethane	100	0.1427324	150	0.135294	200	0.1586412						
Chloroform	100	0.4194242	150	0.4096553	200	0.4204004						
2-Chloroethyl vinyl ether	199.5	0.1581696	299.2	0.1542038	399	0.1547493						
Chloromethane	100	0.2250998	150	0.2159445	200	0.2206076						
1-Chlorohexane	100.2	1.3071	150.3	1.206912	200.4	1.157005						
2-Chlorotoluene	100	1.268256	150	1.290035	200	1.231573						
4-Chlorotoluene	100	1.300482	150	1.235023	200	1.370671						
Cyclohexane	100	0.3048506	150	0.2636526	200	0.3072111						
Dibromochloromethane	100	0.7861455	150	0.7252525	200	0.7481696						
1,2-Dibromo-3-chloropropane	100	0.1678492	150	0.161815	200	0.1796314						
1,2-Dibromoethane (EDB)	100	0.732817	150	0.6772909	200	0.6750182						
Dibromomethane	100	0.1883577	150	0.175534	200	0.1803374						
1,2-Dichlorobenzene	100	1.052326	150	1.00834	200	1.052024						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11 12:12 3/24/11 16:07

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	0.9958718	150	1.037701	200	1.202761						
1,4-Dichlorobenzene	100	1.116456	150	0.9717294	200	0.9335261						
Dichlorodifluoromethane	100	0.2419189	150	0.2370702	200	0.2341892						
1,1-Dichloroethane	100	0.4404645	150	0.4261162	200	0.4379213						
1,2-Dichloroethane	100	0.2868896	150	0.2654326	200	0.2851214						
1,1-Dichloroethene	100	0.2316282	150	0.2260677	200	0.2299502						
cis-1,2-Dichloroethene	100	0.2942959	150	0.2842498	200	0.2956806						
trans-1,2-Dichloroethene	100	0.2714927	150	0.2592365	200	0.2750798						
1,2-Dichloroethene (total)	200	0.2828943	300	0.2717431	400	0.2853802						
1,2-Dichloropropane	100	0.2435348	150	0.2284693	200	0.2294573						
1,3-Dichloropropane	100	0.9483657	150	0.8463884	200	0.8525825						
2,2-Dichloropropane	100	0.272076	150	0.2617397	200	0.2594256						
1,1-Dichloropropene	100	0.3035675	150	0.2980514	200	0.3118361						
cis-1,3-Dichloropropene	100	0.3795706	150	0.3571907	200	0.3671584						
trans-1,3-Dichloropropene	100	0.8372163	150	0.7768983	200	0.7646759						
Diisopropyl Ether	100	0.9255935	150	0.8720579	200	0.8882683						
Ethylbenzene	100	2.503902	150	2.29151	200	2.152738						
Ethyl tert-Butyl Ether	100	0.7071197	150	0.6920199	200	0.7180637						
Ethyl Methacrylate	100	0.8239533	150	0.7833218	200	0.7495701						
Hexachlorobutadiene	100	0.2462985	150	0.2450444	200	0.2747038						
2-Hexanone							1	0.2720755	2	0.3183527	4	0.3277497
Iodomethane	100	0.4865004	150	0.4643858	200	0.487461						
Isopropylbenzene	100	1.970274	150	1.794816	200	1.699738						
p-Isopropyltoluene	100	1.220845	150	1.111221	200	1.120249						
Methylene chloride	100	0.3057949	150	0.2789757	200	0.2877929						
Methyl Acetate	100	0.2141575	150	0.2030866	200	0.2064528						
Methylcyclohexane	100	0.2291504	150	0.2245852	200	0.2333982						
Naphthalene	100	1.451622	150	1.408555	200	1.498						
Methyl Methacrylate	100	0.2071562	150	0.2020097	200	0.2078491						
4-Methyl-2-pentanone							1	0.1792344	2	0.1803689	4	0.1937574
Methyl t-Butyl Ether	100	0.6277299	150	0.6282743	200	0.6196955						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11 12:12 3/24/11 16:07

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	1.925682	150	1.825062	200	1.948952						
Styrene	100	1.729849	150	1.548822	200	1.496283						
1,1,2,2-Tetrachloroethane	100	0.637664	150	0.5995633	200	0.6359632						
1,1,1,2-Tetrachloroethane	100	0.6194897	150	0.5858213	200	0.5838703						
tert-Butyl alcohol	500	2.368182E-02	750	2.318323E-02	1000	2.320804E-02						
Tetrachloroethene	100	0.7682393	150	0.7229287	200	0.7038116						
Toluene	100	1.395961	150	1.249622	200	1.285406						
1,2,3-Trichlorobenzene	100	0.594589	150	0.5688162	200	0.6121416						
1,2,4-Trichlorobenzene	100	0.6353362	150	0.6339723	200	0.7029186						
1,1,2-Trichloroethane	100	0.5255027	150	0.4822233	200	0.4677561						
1,1,1-Trichloroethane	100	0.320252	150	0.3054736	200	0.3144986						
Tetrahydrofuran	100	6.914901E-02	150	6.587517E-02	200	0.0681904						
Trichloroethene	100	0.2414742	150	0.2362929	200	0.2307734						
Trichlorofluoromethane	100	0.3628863	150	0.3389962	200	0.3456426						
1,2,3-Trichloropropane	100	0.2128739	150	0.1770287	200	0.1865017						
1,3,5-Trimethylbenzene	100	1.36684	150	1.200981	200	1.376375						
1,2,4-Trimethylbenzene	100	1.422455	150	1.290468	200	1.37869						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2495495	150	0.235193	200	0.2423654						
Vinyl chloride	100	0.1832075	150	0.1635977	200	0.1583852						
m,p-Xylene	200	1.779028	300	1.553914	400	1.430367						
o-Xylene	100	1.945887	150	1.743427	200	1.632245						
Vinyl acetate	199.9	0.3139199	299.8	0.3007406	399.8	0.3145967						
Xylenes (total)	300	1.834648	450	1.617085	600	1.497659						
Dibromofluoromethane							30	0.3164576	30	0.3129749	40	0.3138379
1,2-Dichloroethane-d4							30	6.460321E-02	30	6.214455E-02	40	6.335811E-02
Toluene-d8							30	2.439073	30	2.385151	40	2.274829
tert-Amyl alcohol	500	1.632717E-02	750	1.575855E-02	1000	1.720482E-02						
tert-Amyl ethyl ether	100	0.5694808	150	0.5426943	200	0.544507						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1084001		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	3/22/11 12:12	3/24/11 16:07

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	7.283489E-02	20	7.330563E-02	100	6.809305E-02	200	6.894762E-02	300	0.0660034	400	7.167138E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	50	0.8681834	60	0.8721699	70	0.8257098	30	0.9926367	30	0.9617093	30	0.9640892
n-Butylbenzene												
2-Butanone	10	0.1013737	20	0.1075082	100	0.1109828	200	0.1119231	300	0.1096259	400	0.1113044
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_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1084001		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	3/22/11 12:12	3/24/11 16:07

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	0.3524781	20	0.4038063	100	0.3706551	200	0.3914321	300	0.3798105	400	0.3799614
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1996308	20	0.2178405	100	0.2118568	200	0.2175817	300	0.1998162	400	0.2085091
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1084001	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	3/22/11 12:12	3/24/11 16:07

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	50	0.310604	60	0.3028994	70	0.3026789	30	0.3148825	30	0.3145714	30	0.3244476
1,2-Dichloroethane-d4	50	6.399363E-02	60	6.495948E-02	70	0.064001	30	6.562098E-02	30	6.507669E-02	30	6.206264E-02
Toluene-d8	50	2.151386	60	2.249312	70	2.21533	30	2.468186	30	2.421018	30	2.437334
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11 12:12 3/24/11 16:07

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_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1084001	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	3/22/11 12:12	3/24/11 16:07

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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11 12:12 3/24/11 16:07

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_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1084001	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	3/22/11 12:12	3/24/11 16:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	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_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1084001	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	3/22/11 12:12	3/24/11 16:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	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_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1084001	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	3/22/11 12:12	3/24/11 16:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1084001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	3/22/11 12:12 3/24/11 16:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	7.581725E-02	12.9138	4.790222	0.049049			15	
Acrolein	0.0332781	17.15086	4.637778	0.1328997	0.9963037		0.995	
Acrylonitrile	9.075655E-02	5.967214	5.377556	0.1635177			15	
Benzene	0.8598124	5.826665	11.32467	2.571886E-02			15	
Bromobenzene	0.7031528	3.794934	16.60044	0.0129509			15	
Bromochloromethane	0.1571874	10.14989	8.420222	8.362025E-02			15	
Tert-Amyl Methyl Ether	0.7401368	21.15049	11.73244	4.981305E-02	0.9999557		0.995	
Bromodichloromethane	0.2975079	3.338864	12.46467	3.137315E-02			15	
Bromoform	0.6079959	10.51022	15.90856	2.272561E-02			SPCC (0.1)	
Bromomethane	0.1697082	8.151545	3.912111	8.414468E-02			15	
Bromofluorobenzene	0.9203766	6.208993	16.44933	2.376311E-02			15	
n-Butylbenzene	1.150237	5.314464	17.69211	1.288763E-02			15	
2-Butanone	0.1038089	9.991007	7.8065	0.2294757			15	
sec-Butylbenzene	1.609253	4.427802	17.27867	7.963235E-03			15	
tert-Butylbenzene	1.130788	4.65364	17.12422	2.256859E-02			15	
Carbon disulfide	0.7726197	4.943713	5.798444	5.382923E-02			15	
Carbon tetrachloride	0.2679136	5.772236	11.26011	3.763941E-02			15	
Chlorobenzene	1.626743	6.247375	15.50867	1.878259E-02			SPCC (0.3)	
Chloroethane	0.136575	12.25603	4.05075	7.761321E-02			15	
Chloroform	0.4102609	3.178745	8.548444	7.068972E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1487639	7.6876	13.11567	2.831501E-02			15	
Chloromethane	0.2276648	4.533361	3.351889	0.1851388			SPCC (0.1)	
1-Chlorohexane	1.358226	8.38456	15.47567	1.868553E-02			15	
2-Chlorotoluene	1.343142	4.69334	16.80522	1.699125E-02			15	
4-Chlorotoluene	1.357899	8.127378	16.86222	0.0210047			15	
Cyclohexane	0.2868146	7.071416	11.10344	4.114454E-02			15	
Dibromochloromethane	0.7343881	7.37851	14.498	2.038201E-02			15	
1,2-Dibromo-3-chloropropane	0.1573495	9.086748	17.999	1.942704E-02			15	
1,2-Dibromoethane (EDB)	0.6906692	6.011137	14.73144	2.734917E-02			15	
Dibromomethane	0.1768221	3.662959	12.26744	3.079701E-02			15	
1,2-Dichlorobenzene	1.056748	4.719013	17.66033	1.217516E-02			15	
1,3-Dichlorobenzene	1.094328	6.392817	17.351	1.702519E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1084001		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	3/22/11 12:12	3/24/11 16:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.157104	11.35253	17.39611	2.310506E-02			15	
Dichlorodifluoromethane	0.224461	7.777908	3.164444	0.1567193	0.9997794		0.995	
1,1-Dichloroethane	0.4233929	3.852676	6.929333	5.766121E-02			SPCC (0.1)	
1,2-Dichloroethane	0.2732127	4.979538	10.278	6.273465E-02			15	
1,1-Dichloroethene	0.2255965	2.433535	5.305222	0.1119123			CCC (20)	
cis-1,2-Dichloroethene	0.2774913	4.918828	8.094667	5.817293E-02			15	
trans-1,2-Dichloroethene	0.2597497	3.773239	6.48	8.829922E-02			15	
1,2-Dichloroethene (total)	0.2686205	3.882943	0	0			15	
1,2-Dichloropropane	0.2331725	2.515092	12.33544	2.167003E-02			CCC (20)	
1,3-Dichloropropane	0.9185418	5.439147	14.269	2.048293E-02			15	
2,2-Dichloropropane	0.2659142	4.514366	8.743333	8.804082E-02			15	
1,1-Dichloropropene	0.2914419	5.221887	10.97411	0.0500267			15	
cis-1,3-Dichloropropene	0.3482888	6.389209	13.35244	2.369358E-02			15	
trans-1,3-Dichloropropene	0.7769797	9.251968	13.86111	4.045963E-02			15	
Diisopropyl Ether	0.854156	5.083156	7.850333	8.818108E-02			15	
Ethylbenzene	2.383883	5.783688	15.674	1.935092E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6745049	5.034467	8.780778	9.038613E-02			15	
Ethyl Methacrylate	0.7225211	13.76591	14.35022	2.645229E-02			15	
Hexachlorobutadiene	0.2603432	11.89493	19.34811	1.207234E-02			15	
2-Hexanone	0.3551468	11.84673	14.46544	4.641752E-02			15	
Iodomethane	0.3888302	22.59284	5.351111	7.955871E-02	0.9989867		0.995	
Isopropylbenzene	1.917265	6.129876	16.414	1.366668E-02			15	
p-Isopropyltoluene	1.255108	7.431759	17.39944	2.517309E-02			15	
Methylene chloride	0.2879524	5.828811	5.501333	9.345302E-02			15	
Methyl Acetate	0.20594	4.133282	5.540667	0.1281724			15	
Methylcyclohexane	0.2253353	2.575007	13.09289	3.933038E-02			15	
Naphthalene	1.417306	6.665996	19.32067	1.136041E-02			15	
Methyl Methacrylate	0.1836272	13.14786	12.78578	6.663479E-02			15	
4-Methyl-2-pentanone	0.2009551	7.228209	13.52167	0.0254952			15	
Methyl t-Butyl Ether	0.596171	5.584011	6.691778	7.990925E-02			15	
n-Propylbenzene	2.001293	6.77353	16.72956	0.0224652			15	
Styrene	1.638556	7.31779	16.08856	1.029711E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1084001		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	3/22/11 12:12	3/24/11 16:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6466982	6.856913	16.15533	1.338021E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6133557	5.83761	15.45256	1.691596E-02			15	
tert-Butyl alcohol	2.344623E-02	7.278464	5.314889	0.1563845			15	
Tetrachloroethene	0.7309561	5.286144	14.91456	1.413254E-02			15	
Toluene	1.363325	6.6632	14.19011	1.729517E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6001166	3.890404	19.527	1.278597E-02			15	
1,2,4-Trichlorobenzene	0.6583787	4.045397	19.09289	1.032949E-02			15	
1,1,2-Trichloroethane	0.5040212	5.521156	14.007	2.384727E-02			15	
1,1,1-Trichloroethane	0.3016893	4.179094	10.529	4.744627E-02			15	
Tetrahydrofuran	6.538618E-02	5.631098	9.373143	0.1542967			15	
Trichloroethene	0.238184	3.372401	12.41433	0.019625			15	
Trichlorofluoromethane	0.339243	6.312842	4.652778	0.1167494			15	
1,2,3-Trichloropropane	0.1954897	6.78891	16.25944	0.0241375			15	
1,3,5-Trimethylbenzene	1.339339	6.632903	16.927	0.0213542			15	
1,2,4-Trimethylbenzene	1.433776	5.417154	17.20311	1.575506E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2354837	4.883444	5.569222	5.917367E-02			15	
Vinyl chloride	0.1940212	12.4411	3.516222	0.1544052			CCC (20)	
m,p-Xylene	1.742223	9.298898	15.832	1.472031E-02			15	
o-Xylene	1.91167	8.136781	16.14311	2.156804E-03			15	
Vinyl acetate	0.2689634	16.44564	7.1815	0.1221153	0.9992009		0.995	
Xylenes (total)	1.798705	8.683755	0	0			15	
Dibromofluoromethane	0.3125949	2.153483	8.840222	4.694645E-02			15	
1,2-Dichloroethane-d4	6.398003E-02	1.967422	10.07556	5.066511E-02			15	
Toluene-d8	2.337958	4.966846	14.12222	1.973727E-02			15	
tert-Amyl alcohol	1.493481E-02	11.25626	9.834143	0.1522273			15	
tert-Amyl ethyl ether	0.5264827	6.213158	13.01056	7.748973E-03			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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	7.345248E-02	5.002	0.0629605	10	7.600379E-02	25.01	4.266429E-02	50.02	4.401047E-02	250.1	4.491028E-02
Acrylonitrile	2.499	9.808561E-02	4.998	0.109848	9.996	8.699726E-02	24.99	8.799322E-02	49.98	8.802525E-02	249.9	9.420532E-02
Benzene	0.5	0.8000888	1	0.9156609	2	0.8803617	5	0.7934592	10	0.7359414	50	0.800176
Bromobenzene	0.5	0.641056	1	0.6621863	2	0.5914626	5	0.6467631	10	0.579489	50	0.6402908
Bromochloromethane	0.5	0.1093716	1	0.1692393	2	0.140701	5	0.1313986	10	0.112671	50	0.1315389
Tert-Amyl Methyl Ether	0.5	0.6306069	1	0.7326989	2	0.6863854	5	0.6084636	10	0.594319	50	0.6639212
Bromodichloromethane	0.5	0.3849176	1	0.3212413	2	0.3108098	5	0.3016333	10	0.2722413	50	0.3183873
Bromoform	0.5	0.3945924	1	0.3386649	2	0.3466746	5	0.3226988	10	0.33363	50	0.3812498
Bromomethane	0.5	0.1684676	1	0.1779699	2	0.192281	5	0.1780457	10	0.1785955	50	0.2262205
Bromofluorobenzene												
n-Butylbenzene	0.5	1.615764	1	1.620222	2	1.568309	5	1.533788	10	1.313584	50	1.538153
2-Butanone												
sec-Butylbenzene	0.5	2.182433	1	2.042219	2	2.12414	5	1.9027	10	1.740465	50	1.975233
tert-Butylbenzene	0.5	1.42206	1	1.934084	2	1.652871	5	1.639224	10	1.426676	50	1.647677
Carbon disulfide	0.5	0.6700777	1	0.7146108	2	0.6935102	5	0.6335915	10	0.6337523	50	0.6850653
Carbon tetrachloride	0.5	0.2142449	1	0.2502996	2	0.2321267	5	0.2296175	10	0.2145385	50	0.245885
Chlorobenzene	0.5	1.326671	1	1.439744	2	1.348718	5	1.242116	10	1.218162	50	1.309918
Chloroethane	0.5	0.2639473	1	0.3176148	2	0.2371905	5	0.2382983	10	0.229075	50	0.2546896
Chloroform	0.5	0.4713124	1	0.525224	2	0.4449954	5	0.3898242	10	0.3843343	50	0.4034271
2-Chloroethyl vinyl ether	0.9975	0.1757648	1.995	0.1714589	3.99	0.1786886	9.975	0.1651317	19.95	0.1499097	99.75	0.1703667
Chloromethane	0.5	0.4048956	1	0.522269	2	0.5269472	5	0.4844209	10	0.4433077	50	0.4808374
1-Chlorohexane	0.501	1.585962	1.002	1.589005	2.004	1.398023	5.01	1.274661	10.02	1.22227	50.1	1.31726
2-Chlorotoluene	0.5	1.32624	1	1.808458	2	1.659932	5	1.543797	10	1.385015	50	1.54863
4-Chlorotoluene	0.5	1.73978	1	1.803072	2	1.855684	5	1.677465	10	1.535848	50	1.79964
Cyclohexane	0.5	0.4396916	1	0.4634382	2	0.409737	5	0.3895298	10	0.3643557	50	0.4100495
Dibromochloromethane	0.5	0.5283043	1	0.5578137	2	0.5173084	5	0.5282558	10	0.5005973	50	0.5522381
1,2-Dibromo-3-chloropropane	0.5		1	9.348104E-02	2	9.474229E-02	5	0.1156024	10	0.1023672	50	0.1237073
1,2-Dibromoethane (EDB)	0.5	0.5843429	1	0.6618649	2	0.6056568	5	0.540378	10	0.5211705	50	0.5524816
Dibromomethane	0.5	0.1536054	1	0.1796265	2	0.153499	5	0.1450265	10	0.1479124	50	0.1641915
1,2-Dichlorobenzene	0.5	0.8575686	1	1.041613	2	1.049727	5	0.9857437	10	0.9044381	50	1.03308

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 1110001

Instrument: MS-VOA5

Matrix: Water

Calibration Dates: 4/15/11 9:53 4/15/11 17:45

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	1.273057	1	1.210968	2	1.111015	5	1.008536	10	0.9391991	50	1.051088
1,4-Dichlorobenzene	0.5	1.532551	1	1.16052	2	1.202197	5	1.083727	10	0.9748769	50	1.079088
Dichlorodifluoromethane	0.5	0.2840134	1	0.2858936	2	0.2909534	5	0.3119691	10	0.2727878	50	0.3162249
1,1-Dichloroethane	0.5	0.4287103	1	0.5320965	2	0.4751234	5	0.4325725	10	0.4120782	50	0.4661043
1,2-Dichloroethane	0.5	0.3562957	1	0.31363	2	0.3396192	5	0.3170589	10	0.2989102	50	0.3387723
1,1-Dichloroethene	0.5	0.2393828	1	0.2659251	2	0.2648033	5	0.1920973	10	0.1939775	50	0.2009782
cis-1,2-Dichloroethene	0.5	0.249482	1	0.3033548	2	0.3005381	5	0.247724	10	0.2281777	50	0.2555682
trans-1,2-Dichloroethene	0.5	0.2998018	1	0.2666415	2	0.2699336	5	0.2006577	10	0.2123392	50	0.230136
1,2-Dichloroethene (total)	1	0.2746419	2	0.2849981	4	0.2852358	10	0.2241909	20	0.2202585	100	0.2428521
1,2-Dichloropropane	0.5	0.2971116	1	0.3268379	2	0.3157074	5	0.2696402	10	0.2481496	50	0.2695601
1,3-Dichloropropane	0.5	0.843535	1	0.909842	2	0.8361608	5	0.8171525	10	0.764916	50	0.8162331
2,2-Dichloropropane	0.5	0.3501656	1	0.3412545	2	0.3056573	5	0.2780712	10	0.2715509	50	0.3022778
1,1-Dichloropropene	0.5	0.2968029	1	0.3418814	2	0.3254472	5	0.2892188	10	0.2793071	50	0.3077439
cis-1,3-Dichloropropene	0.5	0.3369793	1	0.4209045	2	0.3752986	5	0.3546505	10	0.3451507	50	0.3709639
trans-1,3-Dichloropropene	0.5	0.6572671	1	0.7202759	2	0.7544529	5	0.7045884	10	0.6688263	50	0.7769461
1,3-Dichloropropene (total)	1	0.3058216	2	0.3600701	4	0.3468991	10	0.3256349	20	0.3108605	100	0.3508639
Diisopropyl Ether	0.5	1.095436	1	1.089445	2	1.036587	5	1.039403	10	1.009037	50	1.099811
Ethylbenzene	0.5	2.026046	1	2.21121	2	2.244356	5	2.0568	10	1.979842	50	2.099205
Ethyl tert-Butyl Ether	0.5	0.8180381	1	0.8773582	2	0.8584222	5	0.7778061	10	0.7427239	50	0.8236289
Ethyl Methacrylate	0.5	0.7708219	1	0.7903798	2	0.7030081	5	0.7054255	10	0.6633499	50	0.7145584
Hexachlorobutadiene	0.5	0.3004126	1	0.2670639	2	0.2546861	5	0.2139476	10	0.1996979	50	0.2170609
2-Hexanone												
Iodomethane	0.5	~~0.1155017~~	1	0.1466517	2	0.1505738	5	0.1804679	10	0.1858682	50	0.2715026
Isopropylbenzene	0.5	1.553991	1	1.879496	2	1.64715	5	1.463981	10	1.484014	50	1.604791
p-Isopropyltoluene	0.5	1.89864	1	1.776951	2	1.742258	5	1.607387	10	1.523654	50	1.666623
Methylene chloride	0.5	~~0.3900775~~	1	0.2936392	2	0.2698228	5	0.2477597	10	0.2252182	50	0.2518085
Methyl Acetate	0.5	~~0.4609926~~	1	0.4005555	2	0.2358498	5	0.2255224	10	0.2031954	50	0.215042
Methylcyclohexane	0.5	0.3449617	1	0.2959674	2	0.3342673	5	0.2715628	10	0.2594567	50	0.2933012
Naphthalene	0.5	1.330595	1	1.403953	2	1.438523	5	1.267743	10	1.210153	50	1.336267
Methyl Methacrylate	0.5	0.3571778	1	0.3326583	2	0.2536673	5	0.2420409	10	0.2434765	50	0.2725396
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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
Methyl t-Butyl Ether	0.5	0.58849	1	0.3847061	2	0.61701	5	0.5249432	10	0.5220101	50	0.575102
n-Propylbenzene	0.5	2.658898	1	2.631022	2	2.742525	5	2.498391	10	2.252019	50	2.51794
Styrene	0.5	1.191692	1	1.431338	2	1.394782	5	1.292819	10	1.286717	50	1.356195
1,1,2,2-Tetrachloroethane	0.5	0.6565294	1	0.8292243	2	0.7688837	5	0.6768636	10	0.6541766	50	0.723185
1,1,1,2-Tetrachloroethane	0.5	0.4367006	1	0.4756397	2	0.5285685	5	0.4857648	10	0.4354952	50	0.5080245
tert-Butyl alcohol	2.5	1.891953E-02	5	2.545306E-02	10	2.534346E-02	25	2.000688E-02	50	1.962376E-02	250	2.099059E-02
Tetrachloroethene	0.5	0.364093	1	0.5506471	2	0.4872814	5	0.4530117	10	0.4530936	50	0.4932279
Toluene	0.5	1.194858	1	1.156849	2	1.245383	5	1.085715	10	1.014703	50	1.112732
1,2,3-Trichlorobenzene	0.5	0.4865515	1	0.6485175	2	0.5326165	5	0.4876621	10	0.4486489	50	0.5188974
1,2,4-Trichlorobenzene	0.5	0.7493696	1	0.6890607	2	0.6505441	5	0.5479476	10	0.5055653	50	0.5773303
1,1,2-Trichloroethane	0.5	0.5303094	1	0.5252135	2	0.4770975	5	0.4418115	10	0.4350982	50	0.4271284
1,1,1-Trichloroethane	0.5	0.330761	1	0.3376056	2	0.3149539	5	0.2880055	10	0.2771033	50	0.3098753
Tetrahydrofuran	0.5	~~0.1634841~~	1	0.1109906	2	0.130662	5	7.513845E-02	10	7.189065E-02	50	7.579246E-02
Trichloroethene	0.5	0.2354577	1	0.2523815	2	0.2614126	5	0.2117919	10	0.2188451	50	0.2396014
Trichlorofluoromethane	0.5	0.4371778	1	0.4162929	2	0.4261584	5	0.3891685	10	0.3896686	50	0.3943387
1,2,3-Trichloropropane	0.5	0.1683271	1	0.1842854	2	0.2015794	5	0.1413224	10	0.1597234	50	0.1514929
1,3,5-Trimethylbenzene	0.5	1.681783	1	1.781468	2	1.842237	5	1.535102	10	1.452974	50	1.666816
1,2,4-Trimethylbenzene	0.5	1.815771	1	1.840546	2	1.734166	5	1.554856	10	1.452915	50	1.671327
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1947962	1	0.245106	2	0.2140875	5	0.1963128	10	0.1816022	50	0.207954
Vinyl chloride	0.5	0.4777512	1	0.3889818	2	0.3273641	5	0.3402598	10	0.3620777	50	0.3030401
m,p-Xylene	1	1.670396	2	1.787353	4	1.678962	10	1.568847	20	1.459675	100	1.572657
o-Xylene	0.5	1.74923	1	1.94044	2	1.807285	5	1.558785	10	1.560928	50	1.627801
Vinyl acetate	0.9995	0.4135478	1.999	0.3447625	3.998	0.4064887	9.995	0.3548725	19.99	0.3401282	99.95	0.3820547
Xylenes (total)	1.5	1.696674	3	1.838382	6	1.721736	15	1.565493	30	1.493426	150	1.591039
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	2.5	1.766705E-02	5	1.906405E-02	10	1.790397E-02	25	0.0169066	50	0.0166562	250	1.650561E-02
tert-Amyl ethyl ether	0.5	0.6824261	1	0.6596976	2	0.6734211	5	0.6479509	10	0.6062625	50	0.6795288

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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	~~0.2395382~~	4	0.1062259
Acrolein	500.2	4.761912E-02	750.3	4.441414E-02	1000	4.446742E-02						
Acrylonitrile	499.8	9.624532E-02	749.7	0.0967836	999.6	9.945679E-02						
Benzene	100	0.8082567	150	0.8163695	200	0.7988039						
Bromobenzene	100	0.6227843	150	0.6086506	200	0.6133366						
Bromochloromethane	100	0.1302925	150	0.134319	200	0.130993						
Tert-Amyl Methyl Ether	100	0.6658783	150	0.687089	200	0.681037						
Bromodichloromethane	100	0.3180744	150	0.3272917	200	0.325512						
Bromoform	100	0.3779496	150	0.3790748	200	0.3705986						
Bromomethane	100	0.2381992	150	0.2519488	200	0.2510808						
Bromofluorobenzene							30	0.8695019	30	0.8691996	40	0.8060909
n-Butylbenzene	100	1.474875	150	1.431947	200	1.444853						
2-Butanone							1	0.1415871	2	0.1638124	4	0.150175
sec-Butylbenzene	100	1.901739	150	1.885204	200	1.850669						
tert-Butylbenzene	100	1.602518	150	1.609183	200	1.551959						
Carbon disulfide	100	0.6887554	150	0.6911361	200	0.68595						
Carbon tetrachloride	100	0.2509112	150	0.2571727	200	0.2633611						
Chlorobenzene	100	1.235874	150	1.215821	200	1.168307						
Chloroethane	100	0.2458709	150	0.2418009	200	0.2428498						
Chloroform	100	0.4073919	150	0.4212198	200	0.4175302						
2-Chloroethyl vinyl ether	199.5	0.175057	299.2	0.1795702	399	0.17956						
Chloromethane	100	0.4652296	150	0.4745201	200	0.4687825						
1-Chlorohexane	100.2	1.256774	150.3	1.25052	200.4	1.210453						
2-Chlorotoluene	100	1.52764	150	1.514417	200	1.503625						
4-Chlorotoluene	100	1.720962	150	1.745691	200	1.735362						
Cyclohexane	100	0.4088501	150	0.4185832	200	0.4205054						
Dibromochloromethane	100	0.5342505	150	0.5344027	200	0.5202787						
1,2-Dibromo-3-chloropropane	100	0.1245736	150	0.1227042	200	0.1233507						
1,2-Dibromoethane (EDB)	100	0.5329544	150	0.5193847	200	0.5009687						
Dibromomethane	100	0.1620901	150	0.1675086	200	0.1653088						
1,2-Dichlorobenzene	100	0.9798451	150	0.9607292	200	0.9510329						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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	1.028373	150	0.998828	200	1.002863						
1,4-Dichlorobenzene	100	1.0591	150	1.030866	200	1.009536						
Dichlorodifluoromethane	100	0.3117621	150	0.3095106	200	0.3036366						
1,1-Dichloroethane	100	0.4650846	150	0.4714799	200	0.4701173						
1,2-Dichloroethane	100	0.3454874	150	0.3557143	200	0.3525558						
1,1-Dichloroethene	100	0.204577	150	0.2000217	200	0.2103732						
cis-1,2-Dichloroethene	100	0.2594392	150	0.2625341	200	0.2612869						
trans-1,2-Dichloroethene	100	0.2320617	150	0.2404701	200	0.2408501						
1,2-Dichloroethene (total)	200	0.2457505	300	0.2515021	400	0.2510685						
1,2-Dichloropropane	100	0.2768431	150	0.2841096	200	0.2821266						
1,3-Dichloropropane	100	0.7927853	150	0.7731411	200	0.7493176						
2,2-Dichloropropane	100	0.305663	150	0.3168261	200	0.3142077						
1,1-Dichloropropene	100	0.3115563	150	0.3233728	200	0.3222422						
cis-1,3-Dichloropropene	100	0.3828268	150	0.3965628	200	0.395178						
trans-1,3-Dichloropropene	100	0.7696532	150	0.7817741	200	0.7646546						
1,3-Dichloropropene (total)	200	0.3653738	300	0.3800619	400	0.3801002						
Diisopropyl Ether	100	1.11285	150	1.134986	200	1.107778						
Ethylbenzene	100	1.937883	150	1.922859	200	1.8281						
Ethyl tert-Butyl Ether	100	0.8342713	150	0.8474832	200	0.8437941						
Ethyl Methacrylate	100	0.6893992	150	0.6995502	200	0.6764212						
Hexachlorobutadiene	100	0.2183398	150	0.2151024	200	0.2166238						
2-Hexanone							1	0.5026459	2	0.5797565	4	0.4901297
Iodomethane	100	0.2889175	150	0.3081212	200	0.3008402						
Isopropylbenzene	100	1.506733	150	1.473016	200	1.422801						
p-Isopropyltoluene	100	1.637658	150	1.625244	200	1.615128						
Methylene chloride	100	0.2516857	150	0.2554455	200	0.2533425						
Methyl Acetate	100	0.2201898	150	0.2211768	200	0.2256047						
Methylcyclohexane	100	0.2949703	150	0.3038449	200	0.3052717						
Naphthalene	100	1.347997	150	1.313537	200	1.294839						
Methyl Methacrylate	100	0.2694595	150	0.2856965	200	0.2875679						
4-Methyl-2-pentanone							1	0.2715508	2	0.2845776	4	0.2933364

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1110001	Instrument:	MS-VOA5	
Matrix:	Water	Calibration Dates:	4/15/11 9:53	4/15/11 17:45

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
Methyl t-Butyl Ether	100	0.5988705	150	0.6159157	200	0.6139185						
n-Propylbenzene	100	2.408552	150	2.369597	200	2.286507						
Styrene	100	1.294683	150	1.308169	200	1.270967						
1,1,2,2-Tetrachloroethane	100	0.713353	150	0.6930676	200	0.6933867						
1,1,1,2-Tetrachloroethane	100	0.475352	150	0.4757034	200	0.4682421						
tert-Butyl alcohol	500	2.167814E-02	750	2.229985E-02	1000	2.231197E-02						
Tetrachloroethene	100	0.4520485	150	0.4602833	200	0.448791						
Toluene	100	1.081687	150	1.095633	200	1.082227						
1,2,3-Trichlorobenzene	100	0.4923064	150	0.4935776	200	0.4830579						
1,2,4-Trichlorobenzene	100	0.5539334	150	0.560741	200	0.5458707						
1,1,2-Trichloroethane	100	0.4151994	150	0.4180961	200	0.3989418						
1,1,1-Trichloroethane	100	0.3158352	150	0.3216286	200	0.327623						
Tetrahydrofuran	100	7.667164E-02	150	7.949791E-02	200	7.960101E-02						
Trichloroethene	100	0.23727	150	0.2431529	200	0.2463272						
Trichlorofluoromethane	100	0.3969179	150	0.3949105	200	0.3914032						
1,2,3-Trichloropropane	100	0.1423161	150	0.1506411	200	0.1443797						
1,3,5-Trimethylbenzene	100	1.583804	150	1.575997	200	1.565018						
1,2,4-Trimethylbenzene	100	1.633456	150	1.64197	200	1.585531						
1,1,2-Trichloro-1,2,2-trifluoroethar	100	0.2067751	150	0.2062075	200	0.2127444						
Vinyl chloride	100	0.2340032	150	0.2065956	200	0.1971065						
m,p-Xylene	200	1.501925	300	1.462725	400	1.317357						
o-Xylene	100	1.565988	150	1.553286	200	1.508714						
Vinyl acetate	199.9	0.3826316	299.8	0.3832969	399.8	0.3787505						
Xylenes (total)	300	1.523279	450	1.492912	600	1.381143						
Dibromofluoromethane							30	0.305082	30	0.3121115	40	0.2808014
1,2-Dichloroethane-d4							30	0.060848	30	6.200351E-02	40	0.057634
Toluene-d8							30	2.175583	30	2.133059	40	1.993034
tert-Amyl alcohol	500	1.750579E-02	750	1.752437E-02	1000	1.792482E-02						
tert-Amyl ethyl ether	100	0.6929417	150	0.7127362	200	0.7089255						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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	0.1058109	20	9.662517E-02	100	9.160077E-02	200	8.873568E-02	300	8.776138E-02	400	0.0912852
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	50	0.8179282	60	0.8024138	70	0.7653987	30	0.9016312	30	0.8719414	30	0.8837117
n-Butylbenzene												
2-Butanone	10	0.1154252	20	0.1283318	100	0.140829	200	0.1341546	300	0.1343933	400	0.1349522
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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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												
1,3-Dichloropropene (total)												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.4151944	20	0.4738867	100	0.4647011	200	0.4730331	300	0.4535798	400	0.4782568
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.2591883	20	0.2753029	100	0.2847717	200	0.2842831	300	0.2727058	400	0.2794371

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

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
Methyl t-Butyl Ether												
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-trifluoroethar												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane	50	0.2831616	60	0.2832524	70	0.2746393	30	0.3029928	30	0.2980317	30	0.2988701
1,2-Dichloroethane-d4	50	6.188906E-02	60	5.667148E-02	70	5.616298E-02	30	0.0631027	30	5.735518E-02	30	5.957207E-02
Toluene-d8	50	1.973692	60	1.954738	70	1.847237	30	2.162138	30	2.08284	30	2.181926
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.095435	8.130072	3.761286	9.346288E-02			15	
Acrolein	5.338917E-02	25.4234	3.639333	0.1077746	0.9990652		0.995	
Acrylonitrile	9.529337E-02	7.569294	4.589333	0.1474434			15	
Benzene	0.8165687	6.399931	7.650444	5.168866E-02			15	
Bromobenzene	0.622891	4.364366	12.40278	5.143733E-02			15	
Bromochloromethane	0.1322805	12.97677	6.738889	0.0928818			15	
Tert-Amyl Methyl Ether	0.6611555	6.555788	7.841111	7.572897E-02			15	
Bromodichloromethane	0.3200121	9.249059	8.636667	6.813749E-02			15	
Bromoform	0.3605704	7.045665	11.81067	5.905082E-02			SPCC (0.1)	
Bromomethane	0.2069788	16.64528	2.818556	0.1637358	0.9991868		0.995	
Bromofluorobenzene	0.8430908	5.464727	12.24611	1.755882E-02			15	
n-Butylbenzene	1.504611	6.561854	13.83644	3.032147E-02			15	
2-Butanone	0.1381845	9.827188	6.202444	5.654298E-02			15	
sec-Butylbenzene	1.956089	7.131853	13.29478	2.976972E-02			15	
tert-Butylbenzene	1.609584	9.357792	13.06044	5.049762E-02			15	
Carbon disulfide	0.6773833	4.033366	4.763333	4.957716E-02			15	
Carbon tetrachloride	0.2397952	7.491069	7.617778	6.986726E-02			15	
Chlorobenzene	1.27837	6.608143	11.08278	5.423621E-02			SPCC (0.3)	
Chloroethane	0.2523708	10.49478	2.951	0.1958913			15	
Chloroform	0.4294733	10.46046	6.715889	8.754408E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1717231	5.52504	8.994556	6.848219E-02			15	
Chloromethane	0.4745789	7.851537	2.228667	0.1926709			SPCC (0.1)	
1-Chlorohexane	1.344992	11.02804	11.049	3.869327E-02			15	
2-Chlorotoluene	1.535306	9.158972	12.625	3.281746E-02			15	
4-Chlorotoluene	1.734834	5.262659	12.68844	4.818632E-02			15	
Cyclohexane	0.4138601	6.775805	7.549889	5.761858E-02			15	
Dibromochloromethane	0.5303833	3.2862	10.31456	6.028785E-02			15	
1,2-Dibromo-3-chloropropane	0.1125661	12.02491	14.44125	3.902792E-02			15	
1,2-Dibromoethane (EDB)	0.5576892	9.147644	10.52789	5.679238E-02			15	
Dibromomethane	0.1598632	6.798654	8.573222	6.249779E-02			15	
1,2-Dichlorobenzene	0.9737531	6.602409	13.79711	3.249335E-02			15	
1,3-Dichlorobenzene	1.069325	10.20858	13.38444	4.478999E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1110001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	4/15/11 9:53 4/15/11 17:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.125829	14.93571	13.47644	4.420105E-02			15	
Dichlorodifluoromethane	0.2985279	5.170388	2.017222	0.1785951	0.9997339		0.995	
1,1-Dichloroethane	0.4614852	7.557788	5.750445	9.968297E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3353382	6.162455	7.478667	8.089861E-02			15	
1,1-Dichloroethene	0.2191262	13.53056	4.228111	0.1783801			CCC (20)	
cis-1,2-Dichloroethene	0.2631228	9.248231	6.459889	8.951479E-02			15	
trans-1,2-Dichloroethene	0.2436546	12.59655	5.375111	0.1345106			15	
1,2-Dichloroethene (total)	0.2533887	9.456715	0	0			15	
1,2-Dichloropropane	0.2855651	8.528436	8.460444	7.290993E-02			CCC (20)	
1,3-Dichloropropane	0.8114537	6.040153	10.05411	0.0399961			15	
2,2-Dichloropropane	0.3095193	8.274472	6.569333	9.334919E-02			15	
1,1-Dichloropropene	0.3108414	6.366392	7.497444	8.152097E-02			15	
cis-1,3-Dichloropropene	0.3753906	7.176617	9.211445	6.630273E-02			15	
trans-1,3-Dichloropropene	0.7331598	6.458765	9.686222	5.472616E-02			15	
1,3-Dichloropropene (total)	0.3472984	7.996073	9.686222	5.472616E-02			15	
Diisopropyl Ether	1.080593	3.893299	6.121667	6.412666E-02			15	
Ethylbenzene	2.034033	6.673525	11.22944	0.0629414			CCC (20)	
Ethyl tert-Butyl Ether	0.8248362	5.044401	6.587778	7.160754E-02			15	
Ethyl Methacrylate	0.712546	5.877163	9.872444	5.863743E-02			15	
Hexachlorobutadiene	0.2336594	14.11394	15.80222	3.541708E-02			15	
2-Hexanone	0.4812427	9.22694	9.992778	3.236776E-02			15	
Iodomethane	0.2291179	30.40252	4.4235	0.1630534	0.9990179		0.995	
Isopropylbenzene	1.559553	8.952109	12.13022	3.579421E-02			15	
p-Isopropyltoluene	1.67706	6.663178	13.43278	2.871329E-02			15	
Methylene chloride	0.2560903	7.621563	4.710375	0.1147551			15	
Methyl Acetate	0.243392	26.37392	4.575	9.409387E-02	0.999715		0.995	
Methylcyclohexane	0.3004004	8.944592	8.791	4.837696E-02			15	
Naphthalene	1.327067	5.143918	15.67311	3.798954E-02			15	
Methyl Methacrylate	0.2826983	13.92008	7.548778	7.251518E-02			15	
4-Methyl-2-pentanone	0.2783504	3.582551	9.140111	2.964067E-02			15	
Methyl t-Butyl Ether	0.5601073	13.42515	5.375111	7.721725E-02			15	
n-Propylbenzene	2.48505	6.85256	12.53956	5.596903E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1110001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	4/15/11 9:53	4/15/11 17:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.314151	5.413242	11.70344	5.177519E-02			15	
1,1,2,2-Tetrachloroethane	0.7120744	7.923079	12.05467	5.038292E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4766101	6.262437	11.12456	4.672365E-02			15	
tert-Butyl alcohol	2.184747E-02	10.65008	4.374778	0.1799545			15	
Tetrachloroethene	0.4624975	10.6729	10.424	5.774833E-02			15	
Toluene	1.118865	6.198212	9.688333	5.751295E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.510204	11.15195	15.95856	3.955662E-02			15	
1,2,4-Trichlorobenzene	0.5978181	13.4198	15.521	2.557265E-02			15	
1,1,2-Trichloroethane	0.4520995	10.62213	9.842667	6.054729E-02			15	
1,1,1-Trichloroethane	0.3137102	6.314808	7.277333	7.972291E-02			15	
Tetrahydrofuran	8.753059E-02	24.39609	6.928	8.088625E-02	0.9995802		0.995	
Trichloroethene	0.2384711	6.483154	8.412333	8.104842E-02			15	
Trichlorofluoromethane	0.4040041	4.421798	3.443333	0.0711888			15	
1,2,3-Trichloropropane	0.1604519	12.94579	12.18167	0.049631			15	
1,3,5-Trimethylbenzene	1.631689	7.556347	12.71789	0.0493266			15	
1,2,4-Trimethylbenzene	1.658949	7.474238	13.09133	5.295763E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2072873	8.432636	4.302556	0.1663512			15	
Vinyl chloride	0.3152422	29.09972	2.374222	0.1915386		0.9981236	CCC (20)	*
m,p-Xylene	1.557766	9.078421	11.34	6.848237E-02			15	
o-Xylene	1.652495	8.873298	11.73289	5.401407E-02			15	
Vinyl acetate	0.3762815	6.768409	5.822778	0.1039803			15	
Xylenes (total)	1.589343	8.838143	0	0			15	
Dibromofluoromethane	0.2932159	4.427291	6.893333	0.0409069			15	
1,2-Dichloroethane-d4	0.059471	4.368149	7.391111	4.109608E-02			15	
Toluene-d8	2.056027	5.771716	9.617222	3.111463E-02			15	
tert-Amyl alcohol	1.751761E-02	4.453294	7.088	8.142149E-02			15	
tert-Amyl ethyl ether	0.6737656	4.880926	8.727444	6.940179E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0322ICV2.D	Calibration Date:	03/22/11 12:12
Sequence:	1C08402	Injection Date:	03/22/11
Lab Sample ID:	1C08402-ICV2	Injection Time:	17:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	102.3	0.8598124	0.8792613		2.3	20
Bromobenzene	A	100.0	105.2	0.7031528	0.7400573		5.2	20
Bromochloromethane	A	100.0	104.9	0.1571874	0.1648955		4.9	20
Bromodichloromethane	A	100.0	106.7	0.2975079	0.3173796		6.7	20
Bromoform	A	100.0	107.1	0.6079959	0.6513613	0.1	7.1	20
Bromomethane	A	100.0	110.3	0.1697082	0.1872267		10.3	20
n-Butylbenzene	A	100.0	101.9	1.150237	1.171818		1.9	20
sec-Butylbenzene	A	100.0	106.4	1.609253	1.712791		6.4	20
tert-Butylbenzene	A	100.0	95.34	1.130788	1.078095		-4.7	20
Carbon disulfide	A	100.0	102.1	0.7726197	0.7890189		2.1	20
Carbon tetrachloride	A	100.0	101.1	0.2679136	0.2708539		1.1	20
Chlorobenzene	A	100.0	97.15	1.626743	1.580318	0.3	-2.9	20
Chloroethane	A	100.0	101.3	0.136575	0.1384039		1.3	20
Chloroform	A	100.0	99.30	0.4102609	0.4073781		-0.7	20
Chloromethane	A	100.0	106.3	0.2276648	0.241975	0.1	6.3	20
2-Chlorotoluene	A	100.0	100.7	1.343142	1.352858		0.7	20
4-Chlorotoluene	A	100.0	102.7	1.357899	1.395079		2.7	20
Dibromochloromethane	A	100.0	106.9	0.7343881	0.7849415		6.9	20
1,2-Dibromo-3-chloropropane	A	100.0	104.7	0.1573495	0.1647416		4.7	20
1,2-Dibromoethane (EDB)	A	100.0	99.79	0.6906692	0.6892165		-0.2	20
Dibromomethane	A	100.0	102.2	0.1768221	0.1807795		2.2	20
1,2-Dichlorobenzene	A	100.0	103.1	1.056748	1.089505		3.1	20
1,3-Dichlorobenzene	A	100.0	100.1	1.094328	1.095595		0.1	20
1,4-Dichlorobenzene	A	100.0	100.7	1.157104	1.165607		0.7	20
Dichlorodifluoromethane	L	100.0	112.9	0.224461	0.2665157		12.9	20
1,1-Dichloroethane	A	100.0	103.4	0.4233929	0.4377741	0.1	3.4	20
1,2-Dichloroethane	A	100.0	96.80	0.2732127	0.2644701		-3.2	20
1,1-Dichloroethene	A	100.0	108.3	0.2255965	0.2442522		8.3	20
cis-1,2-Dichloroethene	A	100.0	101.3	0.2774913	0.2811494		1.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0322ICV2.D	Calibration Date:	03/22/11 12:12
Sequence:	1C08402	Injection Date:	03/22/11
Lab Sample ID:	1C08402-ICV2	Injection Time:	17:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	104.9	0.2597497	0.2724359		4.9	20
1,2-Dichloropropane	A	100.0	101.7	0.2331725	0.2371705		1.7	20
1,3-Dichloropropane	A	100.0	100.9	0.9185418	0.9265413		0.9	20
2,2-Dichloropropane	A	100.0	92.23	0.2659142	0.2452457		-7.8	20
1,1-Dichloropropene	A	100.0	105.6	0.2914419	0.3078942		5.6	20
cis-1,3-Dichloropropene	A	100.0	101.8	0.3482888	0.3545571		1.8	20
trans-1,3-Dichloropropene	A	100.0	111.4	0.7769797	0.8658469		11.4	20
Ethylbenzene	A	100.0	99.95	2.383883	2.3828		-0.05	20
Hexachlorobutadiene	A	100.0	105.5	0.2603432	0.2747865		5.5	20
Isopropylbenzene	A	100.0	102.4	1.917265	1.963227		2.4	20
p-Isopropyltoluene	A	100.0	104.1	1.255108	1.306487		4.1	20
Methylene chloride	A	100.0	102.4	0.2879524	0.294727		2.4	20
Naphthalene	A	100.0	102.5	1.417306	1.453061		2.5	20
Methyl t-Butyl Ether	A	100.0	98.38	0.596171	0.586524		-1.6	20
n-Propylbenzene	A	100.0	105.8	2.001293	2.116447		5.8	20
Styrene	A	100.0	101.5	1.638556	1.662744		1.5	20
1,1,2,2-Tetrachloroethane	A	100.0	101.4	0.6466982	0.6555721	0.3	1.4	20
1,1,1,2-Tetrachloroethane	A	100.0	102.5	0.6133557	0.6285745		2.5	20
Tetrachloroethene	A	100.0	101.2	0.7309561	0.7395172		1.2	20
Toluene	A	100.0	104.6	1.363325	1.426164		4.6	20
1,2,3-Trichlorobenzene	A	100.0	100.1	0.6001166	0.6005802		0.08	20
1,2,4-Trichlorobenzene	A	100.0	100.6	0.6583787	0.6622195		0.6	20
1,1,2-Trichloroethane	A	100.0	94.83	0.5040212	0.4779758		-5.2	20
1,1,1-Trichloroethane	A	100.0	100.2	0.3016893	0.3022898		0.2	20
Trichloroethene	A	100.0	101.6	0.238184	0.2420924		1.6	20
Trichlorofluoromethane	A	100.0	103.2	0.339243	0.3500928		3.2	20
1,2,3-Trichloropropane	A	100.0	101.8	0.1954897	0.1989451		1.8	20
1,3,5-Trimethylbenzene	A	100.0	110.3	1.339339	1.477283		10.3	20
1,2,4-Trimethylbenzene	A	100.0	104.2	1.433776	1.493535		4.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0322ICV2.D	Calibration Date:	03/22/11 12:12
Sequence:	1C08402	Injection Date:	03/22/11
Lab Sample ID:	1C08402-ICV2	Injection Time:	17:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	97.74	0.1940212	0.1896324		-2.3	20
m,p-Xylene	A	200.0	191.0	1.742223	1.663869		-4.5	20
o-Xylene	A	100.0	96.70	1.91167	1.848528		-3.3	20
Bromofluorobenzene	A	30.00	31.02	0.9203766	0.9515789		3.4	20
Dibromofluoromethane	A	30.00	30.47	0.3125949	0.3174666		1.6	20
1,2-Dichloroethane-d4	A	30.00	30.59	6.398003E-02	6.524683E-02		2.0	20
Toluene-d8	A	30.00	32.22	2.337958	2.511083		7.4	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0322ICV4.D	Calibration Date:	03/22/11 12:12
Sequence:	1C08402	Injection Date:	03/22/11
Lab Sample ID:	1C08402-ICV4	Injection Time:	22:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	184.1	7.581725E-02	6.978106E-02		-8.0	20
2-Butanone	A	200.0	218.7	0.1038089	0.1135033		9.3	20
2-Hexanone	A	200.0	208.6	0.3551468	0.3704884		4.3	20
4-Methyl-2-pentanone	A	200.0	213.3	0.2009551	0.2143497		6.7	20
Bromofluorobenzene	A	30.00	30.84	0.9203766	0.9461547		2.8	20
Dibromofluoromethane	A	30.00	31.33	0.3125949	0.3264507		4.4	20
1,2-Dichloroethane-d4	A	30.00	31.60	6.398003E-02	6.738895E-02		5.3	20
Toluene-d8	A	30.00	30.32	2.337958	2.362862		1.1	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0415ICV2.D	Calibration Date:	04/15/11 09:53
Sequence:	1D10810	Injection Date:	04/15/11
Lab Sample ID:	1D10810-ICV2	Injection Time:	14:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	101.0	0.8165687	0.824451		1.0	20
Bromobenzene	A	100.0	103.1	0.622891	0.6420056		3.1	20
Bromochloromethane	A	100.0	104.8	0.1322805	0.1386195		4.8	20
Bromodichloromethane	A	100.0	107.1	0.3200121	0.3427536		7.1	20
Bromoform	A	100.0	108.2	0.3605704	0.3900612	0.1	8.2	20
Bromomethane	L	100.0	96.76	0.2069788	0.2391732		-3.2	20
n-Butylbenzene	A	100.0	100.1	1.504611	1.505666		0.07	20
sec-Butylbenzene	A	100.0	99.74	1.956089	1.950953		-0.3	20
tert-Butylbenzene	A	100.0	101.4	1.609584	1.63259		1.4	20
Carbon disulfide	A	100.0	106.3	0.6773833	0.7200851		6.3	20
Carbon tetrachloride	A	100.0	107.2	0.2397952	0.2570399		7.2	20
Chlorobenzene	A	100.0	101.7	1.27837	1.300708	0.3	1.7	20
Chloroethane	A	100.0	93.79	0.2523708	0.2366934		-6.2	20
Chloroform	A	100.0	98.98	0.4294733	0.4250874		-1.0	20
Chloromethane	A	100.0	109.4	0.4745789	0.5191108	0.1	9.4	20
2-Chlorotoluene	A	100.0	100.5	1.535306	1.542716		0.5	20
4-Chlorotoluene	A	100.0	103.1	1.734834	1.787788		3.1	20
Dibromochloromethane	A	100.0	106.8	0.5303833	0.5662585		6.8	20
1,2-Dibromo-3-chloropropane	A	100.0	109.5	0.1125661	0.1232466		9.5	20
1,2-Dibromoethane (EDB)	A	100.0	99.56	0.5576892	0.5552454		-0.4	20
Dibromomethane	A	100.0	107.9	0.1598632	0.172451		7.9	20
1,2-Dichlorobenzene	A	100.0	102.7	0.9737531	1.0004		2.7	20
1,3-Dichlorobenzene	A	100.0	97.34	1.069325	1.040926		-2.7	20
1,4-Dichlorobenzene	A	100.0	95.30	1.125829	1.072881		-4.7	20
Dichlorodifluoromethane	L	100.0	118.6	0.2985279	0.3640635		18.6	20
1,1-Dichloroethane	A	100.0	102.7	0.4614852	0.4740397	0.1	2.7	20
1,2-Dichloroethane	A	100.0	104.8	0.3353382	0.351463		4.8	20
1,1-Dichloroethene	A	100.0	99.74	0.2191262	0.2185616		-0.3	20
cis-1,2-Dichloroethene	A	100.0	98.50	0.2631228	0.2591797		-1.5	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0415ICV2.D	Calibration Date:	04/15/11 09:53
Sequence:	1D10810	Injection Date:	04/15/11
Lab Sample ID:	1D10810-ICV2	Injection Time:	14:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	99.02	0.2436546	0.241263		-1.0	20
1,2-Dichloropropane	A	100.0	100.1	0.2855651	0.2858466		0.1	20
1,3-Dichloropropane	A	100.0	98.50	0.8114537	0.7992979		-1.5	20
2,2-Dichloropropane	A	100.0	96.05	0.3095193	0.2972889		-4.0	20
1,1-Dichloropropene	A	100.0	103.4	0.3108414	0.3214466		3.4	20
cis-1,3-Dichloropropene	A	100.0	100.3	0.3753906	0.3764082		0.3	20
trans-1,3-Dichloropropene	A	100.0	117.0	0.7331598	0.8574418		17.0	20
Ethylbenzene	A	100.0	99.98	2.034033	2.033602		-0.02	20
Hexachlorobutadiene	A	100.0	96.78	0.2336594	0.2261327		-3.2	20
Isopropylbenzene	A	100.0	106.1	1.559553	1.654837		6.1	20
p-Isopropyltoluene	A	100.0	103.3	1.67706	1.733075		3.3	20
Methylene chloride	A	100.0	101.1	0.2560903	0.2589239		1.1	20
Naphthalene	A	100.0	100.6	1.327067	1.334716		0.6	20
Methyl t-Butyl Ether	A	100.0	107.3	0.5601073	0.6009371		7.3	20
n-Propylbenzene	A	100.0	99.75	2.48505	2.47879		-0.3	20
Styrene	A	100.0	103.7	1.314151	1.362554		3.7	20
1,1,2,2-Tetrachloroethane	A	100.0	99.25	0.7120744	0.7067488	0.3	-0.7	20
1,1,1,2-Tetrachloroethane	A	100.0	105.4	0.4766101	0.50231		5.4	20
Tetrachloroethene	A	100.0	105.7	0.4624975	0.488637		5.7	20
Toluene	A	100.0	100.4	1.118865	1.123341		0.4	20
1,2,3-Trichlorobenzene	A	100.0	100.2	0.510204	0.5110584		0.2	20
1,2,4-Trichlorobenzene	A	100.0	94.82	0.5978181	0.5668317		-5.2	20
1,1,2-Trichloroethane	A	100.0	93.72	0.4520995	0.4236851		-6.3	20
1,1,1-Trichloroethane	A	100.0	101.5	0.3137102	0.3183372		1.5	20
Trichloroethene	A	100.0	104.8	0.2384711	0.2498765		4.8	20
Trichlorofluoromethane	A	100.0	102.4	0.4040041	0.4136587		2.4	20
1,2,3-Trichloropropane	A	100.0	97.79	0.1604519	0.1569078		-2.2	20
1,3,5-Trimethylbenzene	A	100.0	97.87	1.631689	1.597009		-2.1	20
1,2,4-Trimethylbenzene	A	100.0	100.5	1.658949	1.66648		0.5	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0415ICV2.D	Calibration Date:	04/15/11 09:53
Sequence:	1D10810	Injection Date:	04/15/11
Lab Sample ID:	1D10810-ICV2	Injection Time:	14:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	Q	100.0	102.4	0.3152422	0.2413318		2.4	20
m,p-Xylene	A	200.0	201.0	1.557766	1.565944		0.5	20
o-Xylene	A	100.0	97.88	1.652495	1.617519		-2.1	20
Bromofluorobenzene	A	30.00	29.40	0.8430908	0.8261078		-2.0	20
Dibromofluoromethane	A	30.00	31.09	0.2932159	0.3038724		3.6	20
1,2-Dichloroethane-d4	A	30.00	31.37	0.059471	6.218618E-02		4.6	20
Toluene-d8	A	30.00	29.51	2.056027	2.022546		-1.6	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0415ICV4.D	Calibration Date:	04/15/11 09:53
Sequence:	1D10810	Injection Date:	04/15/11
Lab Sample ID:	1D10810-ICV4	Injection Time:	18:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	193.8	0.095435	9.246636E-02		-3.1	20
2-Butanone	A	200.0	193.5	0.1381845	0.1336721		-3.3	20
2-Hexanone	A	200.0	191.1	0.4812427	0.4599205		-4.4	20
4-Methyl-2-pentanone	A	200.0	202.1	0.2783504	0.2812516		1.0	20
Bromofluorobenzene	A	30.00	30.34	0.8430908	0.8527844		1.1	20
Dibromofluoromethane	A	30.00	30.47	0.2932159	0.2978434		1.6	20
1,2-Dichloroethane-d4	A	30.00	30.34	0.059471	6.014053E-02		1.1	20
Toluene-d8	A	30.00	30.96	2.056027	2.121687		3.2	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0430CCV1.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12206	Injection Date:	04/30/11
Lab Sample ID:	1E12206-CCV1	Injection Time:	09:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	219.2	7.581725E-02	8.311345E-02		9.6	20
Benzene	A	100.0	105.1	0.8598124	0.903884		5.1	20
Bromobenzene	A	100.0	95.76	0.7031528	0.6733411		-4.2	20
Bromochloromethane	A	100.0	108.8	0.1571874	0.1709796		8.8	20
Bromodichloromethane	A	100.0	112.2	0.2975079	0.3337673		12.2	20
Bromoform	A	100.0	101.1	0.6079959	0.6145757	0.1	1.1	20
Bromomethane	A	100.0	104.1	0.1697082	0.1766815		4.1	20
n-Butylbenzene	A	100.0	98.59	1.150237	1.134073		-1.4	20
2-Butanone	A	200.0	185.7	0.1038089	9.637973E-02		-7.2	20
sec-Butylbenzene	A	100.0	98.60	1.609253	1.586813		-1.4	20
tert-Butylbenzene	A	100.0	94.91	1.130788	1.07321		-5.1	20
Carbon disulfide	A	100.0	108.6	0.7726197	0.8389157		8.6	20
Carbon tetrachloride	A	100.0	111.7	0.2679136	0.2993569		11.7	20
Chlorobenzene	A	100.0	101.3	1.626743	1.64819	0.3	1.3	20
Chloroethane	A	100.0	116.8	0.136575	0.1595544		16.8	20
Chloroform	A	100.0	106.3	0.4102609	0.4362928		6.3	20
Chloromethane	A	100.0	91.69	0.2276648	0.2087486	0.1	-8.3	20
2-Chlorotoluene	A	100.0	94.27	1.343142	1.266182		-5.7	20
4-Chlorotoluene	A	100.0	93.90	1.357899	1.275028		-6.1	20
Dibromochloromethane	A	100.0	102.6	0.7343881	0.7538746		2.7	20
1,2-Dibromo-3-chloropropane	A	100.0	92.93	0.1573495	0.1462311		-7.1	20
1,2-Dibromoethane (EDB)	A	100.0	100.2	0.6906692	0.692423		0.3	20
Dibromomethane	A	100.0	107.7	0.1768221	0.1905124		7.7	20
1,2-Dichlorobenzene	A	100.0	94.50	1.056748	0.9986253		-5.5	20
1,3-Dichlorobenzene	A	100.0	104.3	1.094328	1.141108		4.3	20
1,4-Dichlorobenzene	A	100.0	98.61	1.157104	1.140984		-1.4	20
Dichlorodifluoromethane	L	100.0	106.0	0.224461	0.2503052		6.0	20
1,1-Dichloroethane	A	100.0	108.4	0.4233929	0.4590182	0.1	8.4	20
1,2-Dichloroethane	A	100.0	112.8	0.2732127	0.3082838		12.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0430CCV1.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12206	Injection Date:	04/30/11
Lab Sample ID:	1E12206-CCV1	Injection Time:	09:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	108.8	0.2255965	0.2454024		8.8	20
cis-1,2-Dichloroethene	A	100.0	105.0	0.2774913	0.2914988		5.0	20
trans-1,2-Dichloroethene	A	100.0	106.0	0.2597497	0.2752999		6.0	20
1,2-Dichloropropane	A	100.0	111.7	0.2331725	0.260488		11.7	20
1,3-Dichloropropane	A	100.0	95.70	0.9185418	0.8790466		-4.3	20
2,2-Dichloropropane	A	100.0	121.9	0.2659142	0.3241885		21.9	20 *
1,1-Dichloropropene	A	100.0	110.9	0.2914419	0.323228		10.9	20
cis-1,3-Dichloropropene	A	100.0	112.2	0.3482888	0.3906068		12.2	20
trans-1,3-Dichloropropene	A	100.0	108.7	0.7769797	0.844384		8.7	20
Ethylbenzene	A	100.0	99.63	2.383883	2.375033		-0.4	20
Hexachlorobutadiene	A	100.0	88.05	0.2603432	0.2292431		-11.9	20
2-Hexanone	A	200.0	230.8	0.3551468	0.4099432		15.4	20
Isopropylbenzene	A	100.0	96.10	1.917265	1.842466		-3.9	20
p-Isopropyltoluene	A	100.0	100.8	1.255108	1.265466		0.8	20
Methylene chloride	A	100.0	107.8	0.2879524	0.3103703		7.8	20
Naphthalene	A	100.0	91.86	1.417306	1.301911		-8.1	20
4-Methyl-2-pentanone	A	200.0	245.5	0.2009551	0.2466335		22.7	20 *
Methyl t-Butyl Ether	A	100.0	106.8	0.596171	0.6366348		6.8	20
n-Propylbenzene	A	100.0	93.25	2.001293	1.866184		-6.8	20
Styrene	A	100.0	98.44	1.638556	1.613048		-1.6	20
1,1,2,2-Tetrachloroethane	A	100.0	88.71	0.6466982	0.5736878	0.3	-11.3	20
1,1,1,2-Tetrachloroethane	A	100.0	98.99	0.6133557	0.6071647		-1.0	20
Tetrachloroethene	A	100.0	100.4	0.7309561	0.7342279		0.4	20
Toluene	A	100.0	99.89	1.363325	1.361876		-0.1	20
1,2,3-Trichlorobenzene	A	100.0	85.94	0.6001166	0.5157151		-14.1	20
1,2,4-Trichlorobenzene	A	100.0	91.56	0.6583787	0.6028226		-8.4	20
1,1,2-Trichloroethane	A	100.0	98.43	0.5040212	0.4961154		-1.6	20
1,1,1-Trichloroethane	A	100.0	111.9	0.3016893	0.3376552		11.9	20
Trichloroethene	A	100.0	112.7	0.238184	0.2684645		12.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0430CCV1.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12206	Injection Date:	04/30/11
Lab Sample ID:	1E12206-CCV1	Injection Time:	09:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	121.6	0.339243	0.4125038		21.6	20 *
1,2,3-Trichloropropane	A	100.0	103.2	0.1954897	0.2017879		3.2	20
1,3,5-Trimethylbenzene	A	100.0	98.67	1.339339	1.321507		-1.3	20
1,2,4-Trimethylbenzene	A	100.0	98.99	1.433776	1.419321		-1.0	20
Vinyl chloride	A	100.0	82.36	0.1940212	0.1597893		-17.6	20
m,p-Xylene	A	200.0	191.5	1.742223	1.66818		-4.2	20
o-Xylene	A	100.0	97.90	1.91167	1.871571		-2.1	20
Bromofluorobenzene	A	30.00	31.29	0.9203766	0.9600887		4.3	20
Dibromofluoromethane	A	30.00	32.26	0.3125949	0.3360983		7.5	20
1,2-Dichloroethane-d4	A	30.00	28.79	6.398003E-02	6.140389E-02		-4.0	20
Toluene-d8	A	30.00	29.04	2.337958	2.263281		-3.2	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0502CCVE.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12309	Injection Date:	05/02/11
Lab Sample ID:	1E12309-CCV1	Injection Time:	19:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	224.8	7.581725E-02	8.521185E-02		12.4	20
Benzene	A	100.0	109.8	0.8598124	0.9445526		9.9	20
Bromobenzene	A	100.0	95.56	0.7031528	0.6719549		-4.4	20
Bromochloromethane	A	100.0	110.2	0.1571874	0.1732722		10.2	20
Bromodichloromethane	A	100.0	122.0	0.2975079	0.3628764		22.0	20 *
Bromoform	A	100.0	93.34	0.6079959	0.5675047	0.1	-6.7	20
Bromomethane	A	100.0	120.0	0.1697082	0.2037351		20.1	20 *
n-Butylbenzene	A	100.0	101.2	1.150237	1.16467		1.3	20
2-Butanone	A	200.0	192.9	0.1038089	0.1001466		-3.5	20
sec-Butylbenzene	A	100.0	101.7	1.609253	1.636205		1.7	20
tert-Butylbenzene	A	100.0	100.1	1.130788	1.132266		0.1	20
Carbon disulfide	A	100.0	109.3	0.7726197	0.8444528		9.3	20
Carbon tetrachloride	A	100.0	120.0	0.2679136	0.3214164		20.0	20
Chlorobenzene	A	100.0	96.64	1.626743	1.572104	0.3	-3.4	20
Chloroethane	A	100.0	128.3	0.136575	0.1751846		28.3	20 *
Chloroform	A	100.0	112.2	0.4102609	0.4603034		12.2	20
Chloromethane	A	100.0	115.6	0.2276648	0.2632579	0.1	15.6	20
2-Chlorotoluene	A	100.0	96.86	1.343142	1.301004		-3.1	20
4-Chlorotoluene	A	100.0	102.4	1.357899	1.390139		2.4	20
Dibromochloromethane	A	100.0	98.20	0.7343881	0.721164		-1.8	20
1,2-Dibromo-3-chloropropane	A	100.0	94.53	0.1573495	0.1487386		-5.5	20
1,2-Dibromoethane (EDB)	A	100.0	96.97	0.6906692	0.6697545		-3.0	20
Dibromomethane	A	100.0	113.0	0.1768221	0.199826		13.0	20
1,2-Dichlorobenzene	A	100.0	99.94	1.056748	1.056168		-0.05	20
1,3-Dichlorobenzene	A	100.0	99.81	1.094328	1.092223		-0.2	20
1,4-Dichlorobenzene	A	100.0	103.9	1.157104	1.20216		3.9	20
Dichlorodifluoromethane	L	100.0	114.7	0.224461	0.2706751		14.7	20
1,1-Dichloroethane	A	100.0	118.8	0.4233929	0.5030903	0.1	18.8	20
1,2-Dichloroethane	A	100.0	121.6	0.2732127	0.332097		21.6	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0502CCVE.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12309	Injection Date:	05/02/11
Lab Sample ID:	1E12309-CCV1	Injection Time:	19:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	109.8	0.2255965	0.2477318		9.8	20
cis-1,2-Dichloroethene	A	100.0	112.9	0.2774913	0.3134124		12.9	20
trans-1,2-Dichloroethene	A	100.0	107.2	0.2597497	0.2784794		7.2	20
1,2-Dichloropropane	A	100.0	111.7	0.2331725	0.2605195		11.7	20
1,3-Dichloropropane	A	100.0	95.35	0.9185418	0.8758134		-4.7	20
2,2-Dichloropropane	A	100.0	111.6	0.2659142	0.2967613		11.6	20
1,1-Dichloropropene	A	100.0	114.5	0.2914419	0.3337257		14.5	20
cis-1,3-Dichloropropene	A	100.0	117.6	0.3482888	0.4096654		17.6	20
trans-1,3-Dichloropropene	A	100.0	97.23	0.7769797	0.7554689		-2.8	20
Ethylbenzene	A	100.0	93.30	2.383883	2.224088		-6.7	20
Hexachlorobutadiene	A	100.0	85.27	0.2603432	0.2220028		-14.7	20
2-Hexanone	A	200.0	206.3	0.3551468	0.3664161		3.2	20
Isopropylbenzene	A	100.0	89.61	1.917265	1.718062		-10.4	20
p-Isopropyltoluene	A	100.0	101.4	1.255108	1.272808		1.4	20
Methylene chloride	A	100.0	113.2	0.2879524	0.3260685		13.2	20
Naphthalene	A	100.0	95.50	1.417306	1.353502		-4.5	20
4-Methyl-2-pentanone	A	200.0	234.4	0.2009551	0.2355274		17.2	20
Methyl t-Butyl Ether	A	100.0	111.5	0.596171	0.6646173		11.5	20
n-Propylbenzene	A	100.0	98.39	2.001293	1.969128		-1.6	20
Styrene	A	100.0	93.80	1.638556	1.53702		-6.2	20
1,1,2,2-Tetrachloroethane	A	100.0	88.68	0.6466982	0.5734973	0.3	-11.3	20
1,1,1,2-Tetrachloroethane	A	100.0	99.88	0.6133557	0.6126496		-0.1	20
Tetrachloroethene	A	100.0	89.95	0.7309561	0.6574871		-10.1	20
Toluene	A	100.0	93.00	1.363325	1.26785		-7.0	20
1,2,3-Trichlorobenzene	A	100.0	90.76	0.6001166	0.5446807		-9.2	20
1,2,4-Trichlorobenzene	A	100.0	87.92	0.6583787	0.5788646		-12.1	20
1,1,2-Trichloroethane	A	100.0	96.13	0.5040212	0.4845093		-3.9	20
1,1,1-Trichloroethane	A	100.0	117.6	0.3016893	0.3549243		17.6	20
Trichloroethene	A	100.0	117.8	0.238184	0.2806293		17.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0502CCVE.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12309	Injection Date:	05/02/11
Lab Sample ID:	1E12309-CCV1	Injection Time:	19:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	122.5	0.339243	0.4154429		22.5	20 *
1,2,3-Trichloropropane	A	100.0	95.71	0.1954897	0.1871074		-4.3	20
1,3,5-Trimethylbenzene	A	100.0	105.0	1.339339	1.406806		5.0	20
1,2,4-Trimethylbenzene	A	100.0	100.3	1.433776	1.437568		0.3	20
Vinyl chloride	A	100.0	101.0	0.1940212	0.1959392		1.0	20
m,p-Xylene	A	200.0	182.4	1.742223	1.588725		-8.8	20
o-Xylene	A	100.0	89.96	1.91167	1.719743		-10.0	20
Bromofluorobenzene	A	30.00	29.42	0.9203766	0.9024937		-1.9	20
Dibromofluoromethane	A	30.00	32.82	0.3125949	0.3419525		9.4	20
1,2-Dichloroethane-d4	A	30.00	30.62	6.398003E-02	6.530763E-02		2.1	20
Toluene-d8	A	30.00	27.29	2.337958	2.12706		-9.0	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0504CCV1.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12504	Injection Date:	05/04/11
Lab Sample ID:	1E12504-CCV1	Injection Time:	09:21

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	219.4	7.581725E-02	8.315743E-02		9.7	20
Benzene	A	100.0	104.3	0.8598124	0.8965976		4.3	20
Bromobenzene	A	100.0	98.44	0.7031528	0.6921622		-1.6	20
Bromochloromethane	A	100.0	109.0	0.1571874	0.171357		9.0	20
Bromodichloromethane	A	100.0	113.4	0.2975079	0.3375275		13.5	20
Bromoform	A	100.0	100.3	0.6079959	0.6098785	0.1	0.3	20
Bromomethane	A	100.0	64.08	0.1697082	0.1087537		-35.9	20 *
n-Butylbenzene	A	100.0	100.3	1.150237	1.154078		0.3	20
2-Butanone	A	200.0	203.6	0.1038089	0.1056915		1.8	20
sec-Butylbenzene	A	100.0	104.0	1.609253	1.674504		4.1	20
tert-Butylbenzene	A	100.0	97.79	1.130788	1.105823		-2.2	20
Carbon disulfide	A	100.0	106.8	0.7726197	0.825205		6.8	20
Carbon tetrachloride	A	100.0	114.6	0.2679136	0.3071881		14.7	20
Chlorobenzene	A	100.0	100.0	1.626743	1.627547	0.3	0.05	20
Chloroethane	A	100.0	118.1	0.136575	0.1612633		18.1	20
Chloroform	A	100.0	112.1	0.4102609	0.4599439		12.1	20
Chloromethane	A	100.0	79.00	0.2276648	0.1798502	0.1	-21.0	20 *
2-Chlorotoluene	A	100.0	96.90	1.343142	1.301505		-3.1	20
4-Chlorotoluene	A	100.0	102.8	1.357899	1.395379		2.8	20
Dibromochloromethane	A	100.0	103.7	0.7343881	0.7613506		3.7	20
1,2-Dibromo-3-chloropropane	A	100.0	91.58	0.1573495	0.144099		-8.4	20
1,2-Dibromoethane (EDB)	A	100.0	98.32	0.6906692	0.6790607		-1.7	20
Dibromomethane	A	100.0	107.2	0.1768221	0.1895874		7.2	20
1,2-Dichlorobenzene	A	100.0	97.80	1.056748	1.033519		-2.2	20
1,3-Dichlorobenzene	A	100.0	94.68	1.094328	1.036134		-5.3	20
1,4-Dichlorobenzene	A	100.0	110.3	1.157104	1.276598		10.3	20
Dichlorodifluoromethane	L	100.0	95.06	0.224461	0.2244144		-4.9	20
1,1-Dichloroethane	A	100.0	113.2	0.4233929	0.4793275	0.1	13.2	20
1,2-Dichloroethane	A	100.0	116.9	0.2732127	0.3193022		16.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0504CCV1.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12504	Injection Date:	05/04/11
Lab Sample ID:	1E12504-CCV1	Injection Time:	09:21

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	106.8	0.2255965	0.2410239		6.8	20
cis-1,2-Dichloroethene	A	100.0	112.2	0.2774913	0.3112926		12.2	20
trans-1,2-Dichloroethene	A	100.0	107.4	0.2597497	0.2790382		7.4	20
1,2-Dichloropropane	A	100.0	110.3	0.2331725	0.2572487		10.3	20
1,3-Dichloropropane	A	100.0	100.2	0.9185418	0.9202781		0.2	20
2,2-Dichloropropane	A	100.0	129.9	0.2659142	0.3454125		29.9	20 *
1,1-Dichloropropene	A	100.0	107.1	0.2914419	0.312085		7.1	20
cis-1,3-Dichloropropene	A	100.0	105.3	0.3482888	0.3667614		5.3	20
trans-1,3-Dichloropropene	A	100.0	103.5	0.7769797	0.8039502		3.5	20
Ethylbenzene	A	100.0	98.43	2.383883	2.346367		-1.6	20
Hexachlorobutadiene	A	100.0	90.50	0.2603432	0.2355984		-9.5	20
2-Hexanone	A	200.0	223.4	0.3551468	0.3967007		11.7	20
Isopropylbenzene	A	100.0	99.62	1.917265	1.909988		-0.4	20
p-Isopropyltoluene	A	100.0	105.7	1.255108	1.326189		5.7	20
Methylene chloride	A	100.0	107.3	0.2879524	0.30907		7.3	20
Naphthalene	A	100.0	93.95	1.417306	1.331624		-6.0	20
4-Methyl-2-pentanone	A	200.0	221.2	0.2009551	0.222304		10.6	20
Methyl t-Butyl Ether	A	100.0	108.5	0.596171	0.6467568		8.5	20
n-Propylbenzene	A	100.0	96.95	2.001293	1.940212		-3.1	20
Styrene	A	100.0	102.4	1.638556	1.678565		2.4	20
1,1,2,2-Tetrachloroethane	A	100.0	87.89	0.6466982	0.5683739	0.3	-12.1	20
1,1,1,2-Tetrachloroethane	A	100.0	103.2	0.6133557	0.6328879		3.2	20
Tetrachloroethene	A	100.0	97.74	0.7309561	0.7144308		-2.3	20
Toluene	A	100.0	97.36	1.363325	1.327316		-2.6	20
1,2,3-Trichlorobenzene	A	100.0	87.72	0.6001166	0.5263943		-12.3	20
1,2,4-Trichlorobenzene	A	100.0	91.15	0.6583787	0.6001063		-8.9	20
1,1,2-Trichloroethane	A	100.0	99.28	0.5040212	0.500376		-0.7	20
1,1,1-Trichloroethane	A	100.0	113.0	0.3016893	0.340929		13.0	20
Trichloroethene	A	100.0	110.3	0.238184	0.2627428		10.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1084001
Lab File ID:	0504CCV1.D	Calibration Date:	03/22/11 12:12
Sequence:	1E12504	Injection Date:	05/04/11
Lab Sample ID:	1E12504-CCV1	Injection Time:	09:21

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	118.5	0.339243	0.4019947		18.5	20
1,2,3-Trichloropropane	A	100.0	100.9	0.1954897	0.1972671		0.9	20
1,3,5-Trimethylbenzene	A	100.0	105.8	1.339339	1.416604		5.8	20
1,2,4-Trimethylbenzene	A	100.0	99.60	1.433776	1.427979		-0.4	20
Vinyl chloride	A	100.0	80.64	0.1940212	0.1564659		-19.4	20
m,p-Xylene	A	200.0	188.8	1.742223	1.644507		-5.6	20
o-Xylene	A	100.0	95.52	1.91167	1.825993		-4.5	20
Bromofluorobenzene	A	30.00	31.49	0.9203766	0.9660132		5.0	20
Dibromofluoromethane	A	30.00	32.80	0.3125949	0.3417938		9.3	20
1,2-Dichloroethane-d4	A	30.00	30.63	6.398003E-02	6.531659E-02		2.1	20
Toluene-d8	A	30.00	29.40	2.337958	2.291158		-2.0	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0504CC1.D	Calibration Date:	04/15/11 09:53
Sequence:	1E12611	Injection Date:	05/04/11
Lab Sample ID:	1E12611-CCV1	Injection Time:	09:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	218.6	0.095435	0.1042898		9.3	20
Benzene	A	100.0	110.0	0.8165687	0.8983139		10.0	20
Bromobenzene	A	100.0	100.4	0.622891	0.6252184		0.4	20
Bromochloromethane	A	100.0	102.6	0.1322805	0.1357229		2.6	20
Bromodichloromethane	A	100.0	104.9	0.3200121	0.3358042		4.9	20
Bromoform	A	100.0	93.84	0.3605704	0.3383799	0.1	-6.2	20
Bromomethane	L	100.0	104.9	0.2069788	0.2596174		4.9	20
n-Butylbenzene	A	100.0	103.5	1.504611	1.556842		3.5	20
2-Butanone	A	200.0	212.6	0.1381845	0.1468757		6.3	20
sec-Butylbenzene	A	100.0	101.1	1.956089	1.978487		1.1	20
tert-Butylbenzene	A	100.0	104.8	1.609584	1.687309		4.8	20
Carbon disulfide	A	100.0	112.1	0.6773833	0.7591507		12.1	20
Carbon tetrachloride	A	100.0	109.7	0.2397952	0.2631524		9.7	20
Chlorobenzene	A	100.0	95.07	1.27837	1.215304	0.3	-4.9	20
Chloroethane	A	100.0	102.9	0.2523708	0.2597927		2.9	20
Chloroform	A	100.0	102.3	0.4294733	0.4391846		2.3	20
Chloromethane	A	100.0	106.9	0.4745789	0.5073725	0.1	6.9	20
2-Chlorotoluene	A	100.0	104.4	1.535306	1.602468		4.4	20
4-Chlorotoluene	A	100.0	107.0	1.734834	1.855615		7.0	20
Dibromochloromethane	A	100.0	96.12	0.5303833	0.509822		-3.9	20
1,2-Dibromo-3-chloropropane	A	100.0	102.1	0.1125661	0.1149764		2.1	20
1,2-Dibromoethane (EDB)	A	100.0	91.65	0.5576892	0.5111246		-8.3	20
Dibromomethane	A	100.0	107.6	0.1598632	0.1719734		7.6	20
1,2-Dichlorobenzene	A	100.0	98.79	0.9737531	0.9619855		-1.2	20
1,3-Dichlorobenzene	A	100.0	94.59	1.069325	1.011482		-5.4	20
1,4-Dichlorobenzene	A	100.0	95.12	1.125829	1.070933		-4.9	20
Dichlorodifluoromethane	L	100.0	103.4	0.2985279	0.3175362		3.4	20
1,1-Dichloroethane	A	100.0	113.2	0.4614852	0.5226725	0.1	13.3	20
1,2-Dichloroethane	A	100.0	113.3	0.3353382	0.3799373		13.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0504CC1.D	Calibration Date:	04/15/11 09:53
Sequence:	1E12611	Injection Date:	05/04/11
Lab Sample ID:	1E12611-CCV1	Injection Time:	09:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.5	0.2191262	0.235544		7.5	20
cis-1,2-Dichloroethene	A	100.0	104.1	0.2631228	0.2738057		4.1	20
trans-1,2-Dichloroethene	A	100.0	100.8	0.2436546	0.24561		0.8	20
1,2-Dichloropropane	A	100.0	107.3	0.2855651	0.3063355		7.3	20
1,3-Dichloropropane	A	100.0	97.90	0.8114537	0.7944524		-2.1	20
2,2-Dichloropropane	A	100.0	110.4	0.3095193	0.3416083		10.4	20
1,1-Dichloropropene	A	100.0	106.7	0.3108414	0.3318024		6.7	20
cis-1,3-Dichloropropene	A	100.0	106.3	0.3753906	0.3988955		6.3	20
trans-1,3-Dichloropropene	A	100.0	106.2	0.7331598	0.7783868		6.2	20
Ethylbenzene	A	100.0	97.64	2.034033	1.986016		-2.4	20
Hexachlorobutadiene	A	100.0	91.20	0.2336594	0.2131057		-8.8	20
2-Hexanone	A	200.0	191.5	0.4812427	0.4608923		-4.2	20
Isopropylbenzene	A	100.0	97.56	1.559553	1.521463		-2.4	20
p-Isopropyltoluene	A	100.0	103.3	1.67706	1.73197		3.3	20
Methylene chloride	A	100.0	106.0	0.2560903	0.2714344		6.0	20
Naphthalene	A	100.0	81.80	1.327067	1.085528		-18.2	20
4-Methyl-2-pentanone	A	200.0	225.8	0.2783504	0.3142859		12.9	20
Methyl t-Butyl Ether	A	100.0	116.3	0.5601073	0.6514411		16.3	20
n-Propylbenzene	A	100.0	103.8	2.48505	2.580681		3.8	20
Styrene	A	100.0	95.47	1.314151	1.254657		-4.5	20
1,1,2,2-Tetrachloroethane	A	100.0	101.8	0.7120744	0.7252385	0.3	1.8	20
1,1,1,2-Tetrachloroethane	A	100.0	95.88	0.4766101	0.4569894		-4.1	20
Tetrachloroethene	A	100.0	94.68	0.4624975	0.4378967		-5.3	20
Toluene	A	100.0	98.45	1.118865	1.101509		-1.6	20
1,2,3-Trichlorobenzene	A	100.0	87.87	0.510204	0.4483318		-12.1	20
1,2,4-Trichlorobenzene	A	100.0	85.65	0.5978181	0.5120515		-14.3	20
1,1,2-Trichloroethane	A	100.0	93.35	0.4520995	0.4220337		-6.7	20
1,1,1-Trichloroethane	A	100.0	105.1	0.3137102	0.329597		5.1	20
Trichloroethene	A	100.0	106.0	0.2384711	0.2528069		6.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1110001
Lab File ID:	0504CC1.D	Calibration Date:	04/15/11 09:53
Sequence:	1E12611	Injection Date:	05/04/11
Lab Sample ID:	1E12611-CCV1	Injection Time:	09:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	109.6	0.4040041	0.4428928		9.6	20
1,2,3-Trichloropropane	A	100.0	88.14	0.1604519	0.1414276		-11.9	20
1,3,5-Trimethylbenzene	A	100.0	103.0	1.631689	1.680706		3.0	20
1,2,4-Trimethylbenzene	A	100.0	104.1	1.658949	1.727181		4.1	20
Vinyl chloride	Q	100.0	84.35	0.3152422	0.2086291		-15.6	20
m,p-Xylene	A	200.0	200.6	1.557766	1.562372		0.3	20
o-Xylene	A	100.0	96.18	1.652495	1.589401		-3.8	20
Bromofluorobenzene	A	30.00	28.01	0.8430908	0.787265		-6.6	20
Dibromofluoromethane	A	30.00	31.26	0.2932159	0.3055359		4.2	20
1,2-Dichloroethane-d4	A	30.00	31.25	0.059471	6.194353E-02		4.2	20
Toluene-d8	A	30.00	28.01	2.056027	1.919932		-6.6	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_010

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

Matrix: Laboratory ID: 1D30002-BLK1 File ID: 0430BL1.D

Sampled: Prepared: Analyzed: 04/30/11 11:37

Solids: Preparation: 5030B Dilution:

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	U
75-25-2	Bromoform		0.250	0.500	1.00	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	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	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	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	0.537	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D30002-BLK1 File ID: 0430BL1.D

Sampled: Prepared: Analyzed: 04/30/11 11:37

Solids: Preparation: 5030B Dilution:

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

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	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	29.98	99.9	75 - 120	
Dibromofluoromethane	30.00	33.29	111	85 - 115	
1,2-Dichloroethane-d4	30.00	31.85	106	70 - 120	
Toluene-d8	30.00	30.10	100	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D30002-BS1 File ID: 0430LCS1.D

Sampled: Prepared: Analyzed: 04/30/11 10:08

Solids: Preparation: 5030B Dilution:

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	110	2.50	5.00	10.0	
71-43-2	Benzene	49.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	47.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	53.6	0.250	0.500	1.00	
75-25-2	Bromoform	50.1	0.250	0.500	1.00	
74-83-9	Bromomethane	49.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.9	0.250	0.500	1.00	
78-93-3	2-Butanone	91.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	53.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	54.1	0.250	0.500	1.00	
75-00-3	Chloroethane	69.4	0.500	1.00	2.00	
67-66-3	Chloroform	50.8	0.250	0.500	1.00	
74-87-3	Chloromethane	52.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.6	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	50.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	54.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	52.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	53.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	49.5	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	49.9	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	51.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	50.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	56.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D30002-BS1 File ID: 0430LCS1.D

Sampled: Prepared: Analyzed: 04/30/11 10:08

Solids: Preparation: 5030B Dilution:

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	119	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.0	0.500	1.00	2.00	
91-20-3	Naphthalene	45.0	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	51.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.7	0.250	0.500	1.00	
100-42-5	Styrene	53.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	40.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	52.1	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	44.6	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	44.8	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	55.4	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	51.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	50.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	102	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	32.10	107	75 - 120	
Dibromofluoromethane	30.00	29.68	98.9	85 - 115	
1,2-Dichloroethane-d4	30.00	29.72	99.1	70 - 120	
Toluene-d8	30.00	31.52	105	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D30002-BSD1 File ID: 0430LCD1.D

Sampled: Prepared: Analyzed: 04/30/11 19:34

Solids: Preparation: 5030B Dilution:

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	103	2.50	5.00	10.0	
71-43-2	Benzene	51.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	57.4	0.250	0.500	1.00	
75-25-2	Bromoform	52.0	0.250	0.500	1.00	
74-83-9	Bromomethane	46.9	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.4	0.250	0.500	1.00	
78-93-3	2-Butanone	89.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.5	0.250	0.500	1.00	
75-00-3	Chloroethane	55.3	0.500	1.00	2.00	
67-66-3	Chloroform	53.5	0.250	0.500	1.00	
74-87-3	Chloromethane	55.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	57.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	57.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	56.0	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	53.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	54.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.0	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	52.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.9	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D30002-BSD1 File ID: 0430LCD1.D

Sampled: Prepared: Analyzed: 04/30/11 19:34

Solids: Preparation: 5030B Dilution:

Batch: 1D30002 Sequence: 1E12206 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	115	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.2	0.500	1.00	2.00	
91-20-3	Naphthalene	51.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	50.7	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.6	0.250	0.500	1.00	
100-42-5	Styrene	56.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	49.8	0.250	0.500	1.00	
108-88-3	Toluene	53.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	44.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	46.5	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.4	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	52.9	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	50.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	109	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	33.20	111	75 - 120	
Dibromofluoromethane	30.00	30.24	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.67	95.6	70 - 120	
Toluene-d8	30.00	30.58	102	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02009-BLK1 File ID: 0502BL1E.D

Sampled: Prepared: Analyzed: 05/02/11 21:10

Solids: Preparation: 5030B Dilution:

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	X, 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	X, 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	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02009-BLK1 File ID: 0502BL1E.D

Sampled: Prepared: Analyzed: 05/02/11 21:10

Solids: Preparation: 5030B Dilution:

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	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	30.05	100	75 - 120	
Dibromofluoromethane	30.00	32.52	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.50	102	70 - 120	
Toluene-d8	30.00	28.41	94.7	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02009-BS1 File ID: 0502LCSE.D

Sampled: Prepared: Analyzed: 05/02/11 19:42

Solids: Preparation: 5030B Dilution:

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	97.5	2.50	5.00	10.0	
71-43-2	Benzene	54.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	57.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.6	0.250	0.500	1.00	X
75-25-2	Bromoform	51.7	0.250	0.500	1.00	
74-83-9	Bromomethane	58.1	0.500	1.00	2.00	X
104-51-8	n-Butylbenzene	52.4	0.250	0.500	1.00	
78-93-3	2-Butanone	102	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	55.1	0.250	0.500	1.00	
75-00-3	Chloroethane	61.9	0.500	1.00	2.00	X
67-66-3	Chloroform	56.8	0.250	0.500	1.00	
74-87-3	Chloromethane	61.7	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	58.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	58.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	57.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	60.8	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	56.1	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	57.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	53.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	58.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02009-BS1 File ID: 0502LCSE.D

Sampled: Prepared: Analyzed: 05/02/11 19:42

Solids: Preparation: 5030B Dilution:

Batch: 1E02009 Sequence: 1E12309 Calibration: 1084001 Instrument: MS-VOA4

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	57.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.7	0.500	1.00	2.00	
91-20-3	Naphthalene	50.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	102	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	52.8	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.5	0.250	0.500	1.00	
100-42-5	Styrene	56.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	45.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.2	0.250	0.500	1.00	
108-88-3	Toluene	53.5	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	47.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	59.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.2	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	50.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.5	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	53.6	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.24	111	75 - 120	
Dibromofluoromethane	30.00	32.12	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.33	101	70 - 120	
Toluene-d8	30.00	31.06	104	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04006-BLK1 File ID: 0504BL1.D

Sampled: Prepared: Analyzed: 05/04/11 11:37

Solids: Preparation: 5030B Dilution:

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

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	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	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	Y, 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	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	0.474	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04006-BLK1 File ID: 0504BL1.D

Sampled: Prepared: Analyzed: 05/04/11 11:37

Solids: Preparation: 5030B Dilution:

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

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	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	31.18	104	75 - 120	
Dibromofluoromethane	30.00	31.86	106	85 - 115	
1,2-Dichloroethane-d4	30.00	28.95	96.5	70 - 120	
Toluene-d8	30.00	32.45	108	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04006-BS1 File ID: 0504LCS1.D

Sampled: Prepared: Analyzed: 05/04/11 10:08

Solids: Preparation: 5030B Dilution:

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	103	2.50	5.00	10.0	
71-43-2	Benzene	51.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.6	0.250	0.500	1.00	
75-25-2	Bromoform	50.6	0.250	0.500	1.00	
74-83-9	Bromomethane	33.7	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	54.7	0.250	0.500	1.00	
78-93-3	2-Butanone	94.4	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	56.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.9	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	55.2	0.250	0.500	1.00	
75-00-3	Chloroethane	61.7	0.500	1.00	2.00	
67-66-3	Chloroform	54.5	0.250	0.500	1.00	
74-87-3	Chloromethane	42.4	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	52.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	57.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.5	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	51.7	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	51.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	56.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	55.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	56.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	47.9	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	56.2	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	52.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	53.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04006-BS1 File ID: 0504LCS1.D

Sampled: Prepared: Analyzed: 05/04/11 10:08

Solids: Preparation: 5030B Dilution:

Batch: 1E04006 Sequence: 1E12504 Calibration: 1084001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	111	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	55.1	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	107	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	53.2	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.5	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	48.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.5	0.250	0.500	1.00	
108-88-3	Toluene	53.2	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	48.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.6	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	57.2	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	47.3	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	51.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.31	101	75 - 120	
Dibromofluoromethane	30.00	30.91	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.14	100	70 - 120	
Toluene-d8	30.00	31.55	105	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04009-BLK1 File ID: 0504BL1.D

Sampled: Prepared: Analyzed: 05/04/11 11:33

Solids: Preparation: 5030B Dilution:

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 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	Q, 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	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

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04009-BLK1 File ID: 0504BL1.D

Sampled: Prepared: Analyzed: 05/04/11 11:33

Solids: Preparation: 5030B Dilution:

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 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	0.368	0.250	0.500	1.00	J
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	0.315	0.250	0.500	1.00	J
120-82-1	1,2,4-Trichlorobenzene	0.331	0.250	0.500	1.00	J
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	29.84	99.5	75 - 120	
Dibromofluoromethane	30.00	30.59	102	85 - 115	
1,2-Dichloroethane-d4	30.00	29.34	97.8	70 - 120	
Toluene-d8	30.00	29.94	99.8	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04009-BS1 File ID: 0504LS1.D

Sampled: Prepared: Analyzed: 05/04/11 10:19

Solids: Preparation: 5030B Dilution:

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	111	2.50	5.00	10.0	
71-43-2	Benzene	54.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.0	0.250	0.500	1.00	
75-25-2	Bromoform	48.1	0.250	0.500	1.00	
74-83-9	Bromomethane	49.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.4	0.250	0.500	1.00	
78-93-3	2-Butanone	111	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.8	0.250	0.500	1.00	
75-00-3	Chloroethane	44.9	0.500	1.00	2.00	
67-66-3	Chloroform	52.3	0.250	0.500	1.00	
74-87-3	Chloromethane	55.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	55.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	51.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	47.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	55.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	55.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	57.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	51.6	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	50.5	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	51.1	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	52.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.6	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	58.5	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.5	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04009-BS1 File ID: 0504LS1.D

Sampled: Prepared: Analyzed: 05/04/11 10:19

Solids: Preparation: 5030B Dilution:

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	100	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	52.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.8	0.500	1.00	2.00	
91-20-3	Naphthalene	45.1	0.250	0.500	1.00	B
108-10-1	4-Methyl-2-pentanone	112	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	58.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.4	0.250	0.500	1.00	
100-42-5	Styrene	51.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	52.8	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.3	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.0	0.250	0.500	1.00	
108-88-3	Toluene	49.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	46.2	0.250	0.500	1.00	B
120-82-1	1,2,4-Trichlorobenzene	46.9	0.250	0.500	1.00	B
79-00-5	1,1,2-Trichloroethane	48.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.1	0.250	0.500	1.00	
79-01-6	Trichloroethene	52.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	54.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	47.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.2	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	39.4	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	50.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.47	98.2	75 - 120	
Dibromofluoromethane	30.00	33.06	110	85 - 115	
1,2-Dichloroethane-d4	30.00	30.55	102	70 - 120	
Toluene-d8	30.00	28.82	96.1	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04009-BSD1 File ID: 0504LD1.D

Sampled: Prepared: Analyzed: 05/04/11 20:41

Solids: Preparation: 5030B Dilution:

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	111	2.50	5.00	10.0	
71-43-2	Benzene	60.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.5	0.250	0.500	1.00	
75-25-2	Bromoform	45.6	0.250	0.500	1.00	
74-83-9	Bromomethane	47.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.2	0.250	0.500	1.00	
78-93-3	2-Butanone	98.5	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	62.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.3	0.250	0.500	1.00	
75-00-3	Chloroethane	51.0	0.500	1.00	2.00	
67-66-3	Chloroform	54.3	0.250	0.500	1.00	
74-87-3	Chloromethane	62.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	54.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	55.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.9	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)	52.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	47.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	51.5	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	60.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	57.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	56.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.5	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	58.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	56.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	45.7	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E04009-BSD1 File ID: 0504LD1.D

Sampled: Prepared: Analyzed: 05/04/11 20:41

Solids: Preparation: 5030B Dilution:

Batch: 1E04009 Sequence: 1E12611 Calibration: 1110001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	90.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	58.9	0.500	1.00	2.00	
91-20-3	Naphthalene	41.8	0.250	0.500	1.00	B
108-10-1	4-Methyl-2-pentanone	105	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	58.0	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.8	0.250	0.500	1.00	
100-42-5	Styrene	52.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	55.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	50.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.6	0.250	0.500	1.00	
108-88-3	Toluene	51.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	46.1	0.250	0.500	1.00	B
120-82-1	1,2,4-Trichlorobenzene	46.0	0.250	0.500	1.00	B
79-00-5	1,1,2-Trichloroethane	51.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	56.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	56.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	46.1	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	53.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	49.7	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	51.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.71	99.0	75 - 120	
Dibromofluoromethane	30.00	33.32	111	85 - 115	
1,2-Dichloroethane-d4	30.00	32.63	109	70 - 120	
Toluene-d8	30.00	29.81	99.4	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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
GW0061	04/26/11 11:24	04/27/11 09:00	04/30/11 00:00	N/A	14.00	04/30/11 15:06	4.15	14.00	
GW0062	04/26/11 14:54	04/27/11 09:00	04/30/11 00:00	N/A	14.00	04/30/11 15:36	4.03	14.00	
GW0063	04/26/11 14:54	04/27/11 09:00	04/30/11 00:00	N/A	14.00	04/30/11 16:06	4.05	14.00	
GW8031-TB	04/26/11 08:00	04/27/11 09:00	05/04/11 00:00	N/A	14.00	05/04/11 12:00	8.17	14.00	
GW0058	04/27/11 12:12	04/28/11 09:00	05/02/11 00:00	N/A	14.00	05/03/11 02:06	5.62	14.00	
GW8032-TB	04/27/11 00:00	04/28/11 09:00	04/30/11 00:00	N/A	14.00	04/30/11 12:08	3.51	14.00	
GW0067	04/28/11 11:25	04/29/11 09:00	05/02/11 00:00	N/A	14.00	05/03/11 01:07	4.53	14.00	
GW0068	04/28/11 14:40	04/29/11 09:00	05/02/11 00:00	N/A	14.00	05/03/11 01:37	4.41	14.00	
GW8012-AB	04/28/11 14:40	04/29/11 09:00	05/02/11 00:00	N/A	14.00	05/02/11 22:39	4.29	14.00	
GW8033-TB	04/28/11 08:00	04/29/11 09:00	05/02/11 00:00	N/A	14.00	05/02/11 22:09	4.55	14.00	
GW0043	04/29/11 10:58	04/30/11 09:00	05/04/11 00:00	N/A	14.00	05/04/11 17:33	5.23	14.00	
GW8034-TB	04/29/11 08:00	04/30/11 09:00	05/04/11 00:00	N/A	14.00	05/04/11 13:06	5.17	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	0428601R.D
Sampled:	04/26/11 11:24	Prepared:	04/28/11 13:36	Analyzed:	05/05/11 17:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28006 Sequence: 1E12603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	Q, U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	Q, U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	Q, U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	Q, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	Q, U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	Q, U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	Q, U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		12.3	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	Q, U

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	0428601R.D
Sampled:	04/26/11 11:24	Prepared:	04/28/11 13:36	Analyzed:	05/05/11 17:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28006 Sequence: 1E12603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	Q, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	Q, U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
65794-96-9	3+4-Methylphenol		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	43.09	87.9	50 - 110	
2-Fluorophenol	98.04	27.39	27.9	20 - 110	
Nitrobenzene-d5	49.02	39.27	80.1	40 - 110	
Phenol-d6	98.04	14.59	14.9	10 - 110	
Terphenyl-d14	49.02	48.59	99.1	50 - 135	
2,4,6-Tribromophenol	98.04	83.67	85.3	40 - 125	

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	0428603R.D
Sampled:	04/26/11 14:54	Prepared:	04/28/11 13:36	Analyzed:	05/05/11 17:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28006 Sequence: 1E12603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.17	2.34	4.67	U
208-96-8	Acenaphthylene		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	U
120-12-7	Anthracene		1.17	2.34	4.67	Q, U
1912-24-9	Atrazine		1.17	2.34	4.67	U
100-52-7	Benzaldehyde		1.17	2.34	4.67	U
92-87-5	Benzidine		11.7	23.4	46.7	X, U
56-55-3	Benzo(a)anthracene		1.17	2.34	4.67	Q, U
50-32-8	Benzo(a)pyrene		1.17	2.34	4.67	Q, U
205-99-2	Benzo(b)fluoranthene		1.17	2.34	4.67	U
191-24-2	Benzo(g,h,i)perylene		1.17	2.34	4.67	U
65-85-0	Benzoic acid		11.7	23.4	46.7	U
207-08-9	Benzo(k)fluoranthene		1.17	2.34	4.67	U
92-52-4	1,1-Biphenyl		1.17	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	Q, U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.17	2.34	4.67	U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
218-01-9	Chrysene		1.17	2.34	4.67	Q, U
53-70-3	Dibenz(a,h)anthracene		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	Q, U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		1.17	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	Q, U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	X, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	Q, U

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	0428603R.D
Sampled:	04/26/11 14:54	Prepared:	04/28/11 13:36	Analyzed:	05/05/11 17:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28006 Sequence: 1E12603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	Q, U
206-44-0	Fluoranthene		1.17	2.34	4.67	U
86-73-7	Fluorene		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		1.17	2.34	4.67	U
87-68-3	Hexachlorobutadiene		1.17	2.34	4.67	Q, U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	U
67-72-1	Hexachloroethane		1.17	2.34	4.67	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
90-12-0	1-Methylnaphthalene		1.17	2.34	4.67	U
91-57-6	2-Methylnaphthalene		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
65794-96-9	3+4-Methylphenol		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		4.67	9.35	18.7	U
99-09-2	3-Nitroaniline		4.67	9.35	18.7	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
87-86-5	Pentachlorophenol		4.67	9.35	18.7	U
85-01-8	Phenanthrene		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
129-00-0	Pyrene		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		1.17	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	35.40	75.8	50 - 110	
2-Fluorophenol	93.46	22.98	24.6	20 - 110	
Nitrobenzene-d5	46.73	35.85	76.7	40 - 110	
Phenol-d6	93.46	12.48	13.3	10 - 110	
Terphenyl-d14	46.73	38.19	81.7	50 - 135	
2,4,6-Tribromophenol	93.46	69.67	74.5	40 - 125	

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	0428605R.D
Sampled:	04/26/11 14:54	Prepared:	04/28/11 13:36	Analyzed:	05/05/11 18:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28006 Sequence: 1E12603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	Q, U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	Q, U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	Q, U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	Q, U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	Q, U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	Q, U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, U

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	0428605R.D
Sampled:	04/26/11 14:54	Prepared:	04/28/11 13:36	Analyzed:	05/05/11 18:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28006 Sequence: 1E12603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	Q, U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
65794-96-9	3+4-Methylphenol		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	38.46	80.0	50 - 110	
2-Fluorophenol	96.15	24.44	25.4	20 - 110	
Nitrobenzene-d5	48.08	40.84	85.0	40 - 110	
Phenol-d6	96.15	15.34	15.9	10 - 110	
Terphenyl-d14	48.08	29.05	60.4	50 - 135	
2,4,6-Tribromophenol	96.15	51.50	53.6	40 - 125	

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	0428901.D
Sampled:	04/27/11 12:12	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 04:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	Q, U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	X, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	23.1	46.3	X, U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	23.1	46.3	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	Y, U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	X, U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	X, U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	X, U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	X, U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	0428901.D
Sampled:	04/27/11 12:12	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 04:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	Q, U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	X, U
67-72-1	Hexachloroethane		1.16	2.31	4.63	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	Y, U
78-59-1	Isophorone		1.16	2.31	4.63	Q, U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
65794-96-9	3+4-Methylphenol		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	X, U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	X, U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	Q, U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	X, U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	X, U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	30.01	64.8	50 - 110	
2-Fluorophenol	92.59	20.72	22.4	20 - 110	
Nitrobenzene-d5	46.30	26.01	56.2	40 - 110	
Phenol-d6	92.59	12.67	13.7	10 - 110	
Terphenyl-d14	46.30	28.90	62.4	50 - 135	X
2,4,6-Tribromophenol	92.59	62.73	67.7	40 - 125	

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	0430701.D
Sampled:	04/28/11 11:25	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 04:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	Q, U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	X, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	X, U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	X, U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	X, U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	0430701.D
Sampled:	04/28/11 11:25	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 04:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	Q, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	X, U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	Y, U
78-59-1	Isophorone		1.18	2.36	4.72	Q, U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	U
65794-96-9	3+4-Methylphenol		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	X, U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	X, U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	Q, U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	X, U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	X, U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	32.97	69.9	50 - 110	
2-Fluorophenol	94.34	34.13	36.2	20 - 110	
Nitrobenzene-d5	47.17	31.68	67.2	40 - 110	
Phenol-d6	94.34	18.48	19.6	10 - 110	
Terphenyl-d14	47.17	41.87	88.8	50 - 135	X
2,4,6-Tribromophenol	94.34	91.87	97.4	40 - 125	

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	0430703.D
Sampled:	04/28/11 14:40	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 05:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
83-32-9	Acenaphthene		1.17	2.34	4.67	U
208-96-8	Acenaphthylene		1.17	2.34	4.67	Q, U
98-86-2	Acetophenone		1.17	2.34	4.67	U
120-12-7	Anthracene		1.17	2.34	4.67	U
1912-24-9	Atrazine		1.17	2.34	4.67	X, U
100-52-7	Benzaldehyde		1.17	2.34	4.67	U
92-87-5	Benzidine		11.7	23.4	46.7	X, U
56-55-3	Benzo(a)anthracene		1.17	2.34	4.67	U
50-32-8	Benzo(a)pyrene		1.17	2.34	4.67	U
205-99-2	Benzo(b)fluoranthene		1.17	2.34	4.67	U
191-24-2	Benzo(g,h,i)perylene		1.17	2.34	4.67	U
65-85-0	Benzoic acid		11.7	23.4	46.7	U
207-08-9	Benzo(k)fluoranthene		1.17	2.34	4.67	U
92-52-4	1,1-Biphenyl		1.17	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.17	2.34	4.67	Y, U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	X, U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
218-01-9	Chrysene		1.17	2.34	4.67	U
53-70-3	Dibenz(a,h)anthracene		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		1.17	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	X, U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	X, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	X, U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	U

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	0430703.D
Sampled:	04/28/11 14:40	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 05:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	U
206-44-0	Fluoranthene		1.17	2.34	4.67	U
86-73-7	Fluorene		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		1.17	2.34	4.67	U
87-68-3	Hexachlorobutadiene		1.17	2.34	4.67	Q, U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	X, U
67-72-1	Hexachloroethane		1.17	2.34	4.67	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.17	2.34	4.67	Y, U
78-59-1	Isophorone		1.17	2.34	4.67	Q, U
90-12-0	1-Methylnaphthalene		1.17	2.34	4.67	U
91-57-6	2-Methylnaphthalene		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
65794-96-9	3+4-Methylphenol		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		4.67	9.35	18.7	X, U
99-09-2	3-Nitroaniline		4.67	9.35	18.7	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	X, U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	Q, U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
87-86-5	Pentachlorophenol		4.67	9.35	18.7	X, U
85-01-8	Phenanthrene		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
129-00-0	Pyrene		1.17	2.34	4.67	X, U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		1.17	2.34	4.67	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	28.28	60.5	50 - 110	
2-Fluorophenol	93.46	28.44	30.4	20 - 110	
Nitrobenzene-d5	46.73	28.70	61.4	40 - 110	
Phenol-d6	93.46	15.71	16.8	10 - 110	
Terphenyl-d14	46.73	44.63	95.5	50 - 135	X
2,4,6-Tribromophenol	93.46	76.78	82.2	40 - 125	

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	0501501.D
Sampled:	04/29/11 10:58	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 05:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	Q, U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	X, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	X, U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	X, U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	X, U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	0501501.D
Sampled:	04/29/11 10:58	Prepared:	05/03/11 15:11	Analyzed:	05/08/11 05:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02019 Sequence: 1E12801 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	Q, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	X, U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	Y, U
78-59-1	Isophorone		1.18	2.36	4.72	Q, U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	U
65794-96-9	3+4-Methylphenol		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	X, U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	X, U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	Q, U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	X, U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	X, U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	31.44	66.7	50 - 110	
2-Fluorophenol	94.34	31.52	33.4	20 - 110	
Nitrobenzene-d5	47.17	31.67	67.1	40 - 110	
Phenol-d6	94.34	18.57	19.7	10 - 110	
Terphenyl-d14	47.17	49.18	104	50 - 135	X
2,4,6-Tribromophenol	94.34	94.80	100	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12404	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12404-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 05/02/11 14:54		
2-Fluorobiphenyl	50.00	99.4	80 - 120	9.417	9.417	0.0000	+/-0.500	
2-Fluorophenol	100.0	107	80 - 120	4.748	4.748	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	99.5	80 - 120	7.114	7.114	0.0000	+/-0.500	
Phenol-d6	100.0	101	80 - 120	5.918	5.918	0.0000	+/-0.500	
Terphenyl-d14	50.00	98.1	80 - 120	14.396	14.396	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	102	80 - 120	11.244	11.244	0.0000	+/-0.500	
Blank (1D28006-BLK1) ug/L				Lab File ID: D28006B1.D		Analyzed: 05/02/11 15:35		
2-Fluorobiphenyl	50.00	84.5	50 - 110	9.398	9.417	-0.0190	+/-0.500	
2-Fluorophenol	100.0	38.2	20 - 110	4.724	4.748	-0.0240	+/-0.500	
Nitrobenzene-d5	50.00	86.1	40 - 110	7.09	7.114	-0.0240	+/-0.500	
Phenol-d6	100.0	21.6	10 - 110	5.883	5.918	-0.0350	+/-0.500	
Terphenyl-d14	50.00	108	50 - 135	14.377	14.396	-0.0190	+/-0.500	
2,4,6-Tribromophenol	100.0	88.0	40 - 125	11.22	11.244	-0.0240	+/-0.500	
LCS (1D28006-BS1) ug/L				Lab File ID: D28006L1.D		Analyzed: 05/02/11 16:09		
2-Fluorobiphenyl	50.00	91.1	50 - 110	9.407	9.417	-0.0100	+/-0.500	
2-Fluorophenol	100.0	42.0	20 - 110	4.738	4.748	-0.0100	+/-0.500	
Nitrobenzene-d5	50.00	88.0	40 - 110	7.104	7.114	-0.0100	+/-0.500	
Phenol-d6	100.0	23.7	10 - 110	5.897	5.918	-0.0210	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	14.391	14.396	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	93.8	40 - 125	11.234	11.244	-0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12603	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12603-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 05/05/11 16:17		
2-Fluorobiphenyl	50.00	97.3	80 - 120	9.321	9.321	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.2	80 - 120	4.668	4.668	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	100	80 - 120	7.029	7.029	0.0000	+/-0.500	
Phenol-d6	100.0	97.6	80 - 120	5.849	5.849	0.0000	+/-0.500	
Terphenyl-d14	50.00	99.5	80 - 120	14.273	14.273	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	102	80 - 120	11.153	11.153	0.0000	+/-0.500	
GW0061 (1104286-01) ug/L				Lab File ID: 0428601R.D		Analyzed: 05/05/11 17:23		
2-Fluorobiphenyl	49.02	87.9	50 - 110	9.319	9.321	-0.0020	+/-0.500	
2-Fluorophenol	98.04	27.9	20 - 110	4.656	4.668	-0.0120	+/-0.500	
Nitrobenzene-d5	49.02	80.1	40 - 110	7.017	7.029	-0.0120	+/-0.500	
Phenol-d6	98.04	14.9	10 - 110	5.82	5.849	-0.0290	+/-0.500	
Terphenyl-d14	49.02	99.1	50 - 135	14.277	14.273	0.0040	+/-0.500	
2,4,6-Tribromophenol	98.04	85.3	40 - 125	11.146	11.153	-0.0070	+/-0.500	
GW0062 (1104286-03) ug/L				Lab File ID: 0428603R.D		Analyzed: 05/05/11 17:57		
2-Fluorobiphenyl	46.73	75.8	50 - 110	9.33	9.321	0.0090	+/-0.500	
2-Fluorophenol	93.46	24.6	20 - 110	4.671	4.668	0.0030	+/-0.500	
Nitrobenzene-d5	46.73	76.7	40 - 110	7.027	7.029	-0.0020	+/-0.500	
Phenol-d6	93.46	13.3	10 - 110	5.836	5.849	-0.0130	+/-0.500	
Terphenyl-d14	46.73	81.7	50 - 135	14.293	14.273	0.0200	+/-0.500	
2,4,6-Tribromophenol	93.46	74.5	40 - 125	11.157	11.153	0.0040	+/-0.500	
GW0063 (1104286-05) ug/L				Lab File ID: 0428605R.D		Analyzed: 05/05/11 18:30		
2-Fluorobiphenyl	48.08	80.0	50 - 110	9.318	9.321	-0.0030	+/-0.500	
2-Fluorophenol	96.15	25.4	20 - 110	4.665	4.668	-0.0030	+/-0.500	
Nitrobenzene-d5	48.08	85.0	40 - 110	7.016	7.029	-0.0130	+/-0.500	
Phenol-d6	96.15	15.9	10 - 110	5.824	5.849	-0.0250	+/-0.500	
Terphenyl-d14	48.08	60.4	50 - 135	14.276	14.273	0.0030	+/-0.500	
2,4,6-Tribromophenol	96.15	53.6	40 - 125	11.145	11.153	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12801	Instrument:	MS-BNA1
		Calibration:	1032006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12801-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 05/07/11 18:45		
2-Fluorobiphenyl	50.00	112	80 - 120	7.6	7.6	0.0000	+/-0.500	
2-Fluorophenol	100.0	118	80 - 120	3.311	3.311	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	93.9	80 - 120	5.454	5.454	0.0000	+/-0.500	
Phenol-d6	100.0	88.8	80 - 120	4.473	4.473	0.0000	+/-0.500	
Terphenyl-d14	50.00	139	80 - 120	12.072	12.072	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	120	80 - 120	9.301	9.301	0.0000	+/-0.500	
GW0058 (1104289-01) ug/L				Lab File ID: 0428901.D		Analyzed: 05/08/11 04:02		
2-Fluorobiphenyl	46.30	64.8	50 - 110	7.588	7.6	-0.0120	+/-0.500	
2-Fluorophenol	92.59	22.4	20 - 110	3.3	3.311	-0.0110	+/-0.500	
Nitrobenzene-d5	46.30	56.2	40 - 110	5.441	5.454	-0.0130	+/-0.500	
Phenol-d6	92.59	13.7	10 - 110	4.452	4.473	-0.0210	+/-0.500	
Terphenyl-d14	46.30	62.4	50 - 135	12.068	12.072	-0.0040	+/-0.500	
2,4,6-Tribromophenol	92.59	67.7	40 - 125	9.29	9.301	-0.0110	+/-0.500	
GW0067 (1104307-01) ug/L				Lab File ID: 0430701.D		Analyzed: 05/08/11 04:31		
2-Fluorobiphenyl	47.17	69.9	50 - 110	7.591	7.6	-0.0090	+/-0.500	
2-Fluorophenol	94.34	36.2	20 - 110	3.3	3.311	-0.0110	+/-0.500	
Nitrobenzene-d5	47.17	67.2	40 - 110	5.446	5.454	-0.0080	+/-0.500	
Phenol-d6	94.34	19.6	10 - 110	4.451	4.473	-0.0220	+/-0.500	
Terphenyl-d14	47.17	88.8	50 - 135	12.067	12.072	-0.0050	+/-0.500	
2,4,6-Tribromophenol	94.34	97.4	40 - 125	9.295	9.301	-0.0060	+/-0.500	
GW0068 (1104307-03) ug/L				Lab File ID: 0430703.D		Analyzed: 05/08/11 05:00		
2-Fluorobiphenyl	46.73	60.5	50 - 110	7.589	7.6	-0.0110	+/-0.500	
2-Fluorophenol	93.46	30.4	20 - 110	3.306	3.311	-0.0050	+/-0.500	
Nitrobenzene-d5	46.73	61.4	40 - 110	5.444	5.454	-0.0100	+/-0.500	
Phenol-d6	93.46	16.8	10 - 110	4.45	4.473	-0.0230	+/-0.500	
Terphenyl-d14	46.73	95.5	50 - 135	12.07	12.072	-0.0020	+/-0.500	
2,4,6-Tribromophenol	93.46	82.2	40 - 125	9.291	9.301	-0.0100	+/-0.500	
GW0043 (1105015-01) ug/L				Lab File ID: 0501501.D		Analyzed: 05/08/11 05:28		
2-Fluorobiphenyl	47.17	66.7	50 - 110	7.589	7.6	-0.0110	+/-0.500	
2-Fluorophenol	94.34	33.4	20 - 110	3.299	3.311	-0.0120	+/-0.500	
Nitrobenzene-d5	47.17	67.1	40 - 110	5.444	5.454	-0.0100	+/-0.500	
Phenol-d6	94.34	19.7	10 - 110	4.45	4.473	-0.0230	+/-0.500	
Terphenyl-d14	47.17	104	50 - 135	12.073	12.072	0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	100	40 - 125	9.293	9.301	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13313	Instrument:	MS-BNA1
		Calibration:	1032006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E13313-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 05/12/11 18:11		
2-Fluorobiphenyl	50.00	103	80 - 120	9.183	9.183	0.0000	+/-0.500	
2-Fluorophenol	100.0	108	80 - 120	4.862	4.862	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.5	80 - 120	7.008	7.008	0.0000	+/-0.500	
Phenol-d6	100.0	102	80 - 120	5.929	5.929	0.0000	+/-0.500	
Terphenyl-d14	50.00	122	80 - 120	13.777	13.777	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	116	80 - 120	10.964	10.964	0.0000	+/-0.500	
Blank (1E02019-BLK2) ug/L				Lab File ID: E02019B2.D		Analyzed: 05/12/11 19:50		
2-Fluorobiphenyl	50.00	77.0	50 - 110	9.176	9.183	-0.0070	+/-0.500	
2-Fluorophenol	100.0	44.5	20 - 110	4.847	4.862	-0.0150	+/-0.500	
Nitrobenzene-d5	50.00	86.6	40 - 110	6.998	7.008	-0.0100	+/-0.500	
Phenol-d6	100.0	23.8	10 - 110	5.91	5.929	-0.0190	+/-0.500	
Terphenyl-d14	50.00	99.0	50 - 135	13.776	13.777	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	89.2	40 - 125	10.958	10.964	-0.0060	+/-0.500	
LCS (1E02019-BS2) ug/L				Lab File ID: E02019L3.D		Analyzed: 05/12/11 20:48		
2-Fluorobiphenyl	50.00	64.7	50 - 110	9.18	9.183	-0.0030	+/-0.500	
2-Fluorophenol	100.0	35.7	20 - 110	4.854	4.862	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	71.2	40 - 110	7.001	7.008	-0.0070	+/-0.500	
Phenol-d6	100.0	21.1	10 - 110	5.916	5.929	-0.0130	+/-0.500	
Terphenyl-d14	50.00	93.9	50 - 135	13.773	13.777	-0.0040	+/-0.500	
2,4,6-Tribromophenol	100.0	87.1	40 - 125	10.962	10.964	-0.0020	+/-0.500	
LCS Dup (1E02019-BSD2) ug/L				Lab File ID: E02019L4.D		Analyzed: 05/12/11 21:16		
2-Fluorobiphenyl	50.00	58.2	50 - 110	9.174	9.183	-0.0090	+/-0.500	
2-Fluorophenol	100.0	34.1	20 - 110	4.855	4.862	-0.0070	+/-0.500	
Nitrobenzene-d5	50.00	64.0	40 - 110	7.001	7.008	-0.0070	+/-0.500	
Phenol-d6	100.0	20.0	10 - 110	5.916	5.929	-0.0130	+/-0.500	
Terphenyl-d14	50.00	89.2	50 - 135	13.776	13.777	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	86.3	40 - 125	10.963	10.964	-0.0010	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D28006	Laboratory ID:	1D28006-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	50.00	44.95	89.9	45 - 110
Acenaphthylene	50.00	43.87	87.7	50 - 105
Acetophenone	50.00	42.22	84.4	50 - 110
Anthracene	**50.00**	**55.61**	**111**	**55 - 110**
Atrazine	50.00	46.65	93.3	70 - 115
Benzaldehyde	50.00	43.40	86.8	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	**50.00**	**57.97**	**116**	**55 - 110**
Benzo(a)pyrene	**50.00**	**56.41**	**113**	**55 - 110**
Benzo(b)fluoranthene	50.00	57.73	115	45 - 120
Benzo(g,h,i)perylene	50.00	57.61	115	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	59.00	118	45 - 125
1,1-Biphenyl	50.00	44.26	88.5	50 - 110
4-Bromophenyl-phenylether	50.00	55.11	110	50 - 115
Butylbenzylphthalate	**50.00**	**65.27**	**131**	**45 - 115**
Caprolactam	**50.00**	**5.837**	**11.7**	**20 - 110**
Carbazole	50.00	56.05	112	50 - 115
4-Chloro-3-methylphenol	50.00	41.72	83.4	45 - 110
4-Chloroaniline	50.00	41.29	82.6	15 - 110
Bis(2-chloroethoxy)methane	**50.00**	**55.28**	**111**	**45 - 105**
Bis(2-chloroethyl)ether	50.00	52.23	104	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	50.52	101	25 - 130
2-Chloronaphthalene	50.00	41.23	82.5	50 - 105
2-Chlorophenol	50.00	37.22	74.4	35 - 105
4-Chlorophenyl phenyl ether	50.00	49.04	98.1	50 - 110
Chrysene	**50.00**	**58.11**	**116**	**55 - 110**
Dibenz(a,h)anthracene	50.00	58.19	116	40 - 125
Dibenzofuran	50.00	49.88	99.8	55 - 105
Di-n-butylphthalate	**50.00**	**61.92**	**124**	**55 - 115**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D28006	Laboratory ID:	1D28006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	47.14	94.3	20 - 110
2,4-Dichlorophenol	50.00	42.80	85.6	40 - 110
Diethylphthalate	**50.00**	**61.75**	**123**	**40 - 120**
2,4-Dimethylphenol	50.00	37.79	75.6	30 - 110
Dimethyl phthalate	50.00	60.01	120	25 - 125
4,6-Dinitro-2-methylphenol	50.00	54.52	109	40 - 130
2,4-Dinitrophenol	50.00	44.12	88.2	15 - 140
2,4-Dinitrotoluene	50.00	57.11	114	50 - 120
2,6-Dinitrotoluene	50.00	55.31	111	50 - 115
Di-n-octylphthalate	**50.00**	**68.01**	**136**	**35 - 135**
1,2-Diphenylhydrazine	50.00	51.61	103	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**65.24**	**130**	**40 - 125**
Fluoranthene	50.00	56.25	113	55 - 115
Fluorene	50.00	49.66	99.3	50 - 110
Hexachlorobenzene	50.00	54.80	110	50 - 110
Hexachlorobutadiene	**50.00**	**9.939**	**19.9**	**25 - 105**
Hexachlorocyclopentadiene	50.00	11.56	23.1	10 - 110
Hexachloroethane	**50.00**	**10.40**	**20.8**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	55.73	111	45 - 125
Isophorone	50.00	50.44	101	50 - 110
1-Methylnaphthalene	50.00	32.70	65.4	30 - 115
2-Methylnaphthalene	50.00	34.97	69.9	45 - 105
2-Methylphenol	50.00	31.90	63.8	40 - 110
3+4-Methylphenol	50.00	28.55	57.1	30 - 110
4-Nitroaniline	50.00	51.33	103	35 - 120
3-Nitroaniline	50.00	45.50	91.0	20 - 125
2-Nitroaniline	50.00	55.18	110	50 - 115
Nitrobenzene	50.00	47.75	95.5	30 - 110
4-Nitrophenol	50.00	13.02	26.0	0 - 125
2-Nitrophenol	50.00	44.92	89.8	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D28006	Laboratory ID:	1D28006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	44.99	90.0	50 - 110
N-Nitroso-di-n-propylamine	50.00	53.83	108	35 - 130
Pentachlorophenol	50.00	53.85	108	40 - 115
Phenanthrene	50.00	55.44	111	50 - 115
Phenol	50.00	13.36	26.7	0 - 115
Pyrene	50.00	57.22	114	50 - 130
2,4,6-Trichlorophenol	50.00	50.30	101	50 - 115
2,4,5-Trichlorophenol	50.00	49.94	99.9	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02019	Laboratory ID:	1E02019-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	33.66	67.3	20 - 110
Acenaphthene	50.00	29.18	58.4	45 - 110
Acenaphthylene	**50.00**	**24.44**	**48.9**	**50 - 105**
Acetophenone	50.00	29.59	59.2	50 - 110
Anthracene	50.00	34.28	68.6	55 - 110
Atrazine	50.00	45.19	90.4	70 - 115
Benzaldehyde	50.00	32.07	64.1	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	38.98	78.0	55 - 110
Benzo(a)pyrene	50.00	33.28	66.6	55 - 110
Benzo(b)fluoranthene	50.00	38.32	76.6	45 - 120
Benzo(g,h,i)perylene	50.00	42.76	85.5	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	42.45	84.9	45 - 125
1,1-Biphenyl	50.00	32.50	65.0	50 - 110
4-Bromophenyl-phenylether	50.00	37.87	75.7	50 - 115
Butylbenzylphthalate	50.00	40.34	80.7	45 - 115
Caprolactam	**50.00**	**7.119**	**14.2**	**20 - 110**
Carbazole	50.00	41.26	82.5	50 - 115
4-Chloro-3-methylphenol	50.00	30.88	61.8	45 - 110
4-Chloroaniline	50.00	28.42	56.8	15 - 110
Bis(2-chloroethoxy)methane	50.00	38.78	77.6	45 - 105
Bis(2-chloroethyl)ether	50.00	32.77	65.5	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.21	74.4	25 - 130
2-Chloronaphthalene	50.00	27.26	54.5	50 - 105
2-Chlorophenol	50.00	27.98	56.0	35 - 105
4-Chlorophenyl phenyl ether	50.00	40.78	81.6	50 - 110
Chrysene	50.00	37.99	76.0	55 - 110
Dibenz(a,h)anthracene	50.00	40.22	80.4	40 - 125
Dibenzofuran	50.00	34.12	68.2	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02019	Laboratory ID:	1E02019-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	39.77	79.5	55 - 115
2,4-Dichlorophenol	50.00	29.34	58.7	40 - 110
Diethylphthalate	50.00	44.72	89.4	40 - 120
2,4-Dimethylphenol	50.00	26.40	52.8	30 - 110
Dimethyl phthalate	50.00	39.66	79.3	25 - 125
4,6-Dinitro-2-methylphenol	50.00	50.87	102	40 - 130
2,4-Dinitrophenol	50.00	48.47	96.9	15 - 140
2,4-Dinitrotoluene	50.00	49.77	99.5	50 - 120
2,6-Dinitrotoluene	50.00	35.64	71.3	50 - 115
Di-n-octylphthalate	50.00	41.88	83.8	35 - 135
1,2-Diphenylhydrazine	50.00	35.74	71.5	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	37.26	74.5	40 - 125
Fluoranthene	50.00	35.52	71.0	55 - 115
Fluorene	50.00	37.71	75.4	50 - 110
Hexachlorobenzene	50.00	41.82	83.6	50 - 110
Hexachlorobutadiene	**50.00**	**11.50**	**23.0**	**25 - 105**
Hexachlorocyclopentadiene	50.00	5.732	11.5	10 - 110
Hexachloroethane	**50.00**	**12.08**	**24.2**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	41.18	82.4	45 - 125
Isophorone	50.00	25.98	52.0	50 - 110
1-Methylnaphthalene	50.00	25.28	50.6	30 - 115
2-Methylnaphthalene	50.00	26.35	52.7	45 - 105
2-Methylphenol	50.00	23.58	47.2	40 - 110
3+4-Methylphenol	50.00	19.88	39.8	30 - 110
4-Nitroaniline	50.00	54.36	109	35 - 120
3-Nitroaniline	50.00	34.97	69.9	20 - 125
2-Nitroaniline	50.00	37.14	74.3	50 - 115
Nitrobenzene	50.00	35.15	70.3	30 - 110
4-Nitrophenol	50.00	15.72	31.4	0 - 125
2-Nitrophenol	50.00	32.24	64.5	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02019	Laboratory ID:	1E02019-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	**50.00**	**22.24**	**44.5**	**50 - 110**
N-Nitroso-di-n-propylamine	50.00	30.12	60.2	35 - 130
Pentachlorophenol	50.00	45.28	90.6	40 - 115
Phenanthrene	50.00	38.24	76.5	50 - 115
Phenol	50.00	10.08	20.2	0 - 115
Pyrene	50.00	45.90	91.8	50 - 130
2,4,6-Trichlorophenol	50.00	35.47	70.9	50 - 115
2,4,5-Trichlorophenol	50.00	35.67	71.3	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	27.78	55.6	19.1	30	20 - 110
Acenaphthene	50.00	27.73	55.5	5.11	30	45 - 110
Acenaphthylene	**50.00**	**24.60**	**49.2 ***	**0.651**	**30**	**50 - 105**
Acetophenone	50.00	30.22	60.4	2.10	30	50 - 110
Anthracene	50.00	35.79	71.6	4.31	30	55 - 110
Atrazine	50.00	40.33	80.7	11.3	30	70 - 115
Benzaldehyde	50.00	32.03	64.1	0.121	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	37.46	74.9	3.98	30	55 - 110
Benzo(a)pyrene	50.00	34.11	68.2	2.45	30	55 - 110
Benzo(b)fluoranthene	50.00	40.17	80.3	4.72	30	45 - 120
Benzo(g,h,i)perylene	50.00	41.05	82.1	4.08	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	40.15	80.3	5.57	30	45 - 125
1,1-Biphenyl	50.00	28.16	56.3	14.3	30	50 - 110
4-Bromophenyl-phenylether	50.00	38.22	76.4	0.901	30	50 - 115
Butylbenzylphthalate	50.00	41.28	82.6	2.30	30	45 - 115
Caprolactam	**50.00**	**5.690**	**11.4 ***	**22.3**	**30**	**20 - 110**
Carbazole	50.00	40.17	80.3	2.67	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02019	Laboratory ID:	1E02019-BSD2
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.
4-Chloro-3-methylphenol	50.00	27.36	54.7	12.1	30	45 - 110
4-Chloroaniline	50.00	25.93	51.9	9.16	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	31.87	63.7	19.6	30	45 - 105
Bis(2-chloroethyl)ether	50.00	34.20	68.4	4.28	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.32	74.6	0.294	30	25 - 130
2-Chloronaphthalene	50.00	27.42	54.8	0.579	30	50 - 105
2-Chlorophenol	50.00	28.02	56.0	0.167	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	37.96	75.9	7.17	30	50 - 110
Chrysene	50.00	37.14	74.3	2.27	30	55 - 110
Dibenz(a,h)anthracene	50.00	39.41	78.8	2.04	30	40 - 125
Dibenzofuran	50.00	32.42	64.8	5.11	30	55 - 105
Di-n-butylphthalate	50.00	39.02	78.0	1.92	30	55 - 115
2,4-Dichlorophenol	50.00	24.94	49.9	16.2	30	40 - 110
Diethylphthalate	50.00	41.18	82.4	8.24	30	40 - 120
2,4-Dimethylphenol	50.00	22.07	44.1	17.9	30	30 - 110
Dimethyl phthalate	50.00	36.70	73.4	7.76	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	49.51	99.0	2.72	30	40 - 130
2,4-Dinitrophenol	50.00	45.45	90.9	6.43	30	15 - 140
2,4-Dinitrotoluene	50.00	46.93	93.9	5.88	30	50 - 120
2,6-Dinitrotoluene	50.00	36.04	72.1	1.12	30	50 - 115
Di-n-octylphthalate	50.00	44.68	89.4	6.47	30	35 - 135
1,2-Diphenylhydrazine	50.00	38.02	76.0	6.17	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	37.21	74.4	0.140	30	40 - 125
Fluoranthene	50.00	35.30	70.6	0.622	30	55 - 115
Fluorene	50.00	35.39	70.8	6.35	30	50 - 110
Hexachlorobenzene	50.00	41.92	83.8	0.228	30	50 - 110
Hexachlorobutadiene	**50.00**	**9.990**	**20.0 ***	**14.0**	**30**	**25 - 105**
Hexachlorocyclopentadiene	50.00	6.231	12.5	8.33	30	10 - 110
Hexachloroethane	**50.00**	**10.40**	**20.8 ***	**15.0**	**30**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	40.29	80.6	2.18	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02019	Laboratory ID:	1E02019-BSD2
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.
Isophorone	**50.00**	**22.11**	**44.2 ***	**16.1**	**30**	**50 - 110**
1-Methylnaphthalene	50.00	23.89	47.8	5.65	30	30 - 115
2-Methylnaphthalene	50.00	26.83	53.7	1.80	30	45 - 105
2-Methylphenol	50.00	22.68	45.4	3.88	30	40 - 110
3+4-Methylphenol	50.00	19.19	38.4	3.53	30	30 - 110
4-Nitroaniline	50.00	50.21	100	7.94	30	35 - 120
3-Nitroaniline	50.00	33.23	66.5	5.10	30	20 - 125
2-Nitroaniline	50.00	40.56	81.1	8.79	30	50 - 115
Nitrobenzene	50.00	32.99	66.0	6.34	30	30 - 110
4-Nitrophenol	50.00	13.75	27.5	13.4	30	0 - 125
2-Nitrophenol	50.00	28.57	57.1	12.1	30	40 - 115
N-Nitrosodiphenylamine	**50.00**	**21.72**	**43.4 ***	**2.37**	**30**	**50 - 110**
N-Nitroso-di-n-propylamine	50.00	30.99	62.0	2.86	30	35 - 130
Pentachlorophenol	50.00	43.15	86.3	4.82	30	40 - 115
Phenanthrene	50.00	36.58	73.2	4.45	30	50 - 115
Phenol	50.00	9.883	19.8	1.97	30	0 - 115
Pyrene	50.00	47.64	95.3	3.73	30	50 - 130
2,4,6-Trichlorophenol	50.00	32.14	64.3	9.86	30	50 - 115
2,4,5-Trichlorophenol	50.00	31.02	62.0	13.9	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1D28006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	04/28/11 13:36	1,020.00	1.00
GW0062	1104286-03	04/28/11 13:36	1,070.00	1.00
GW0063	1104286-05	04/28/11 13:36	1,040.00	1.00
Blank	1D28006-BLK1	04/28/11 13:36	1,000.00	1.00
LCS	1D28006-BS1	04/28/11 13:36	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E02019 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0058	1104289-01	05/03/11 15:11	1,080.00	1.00
GW0067	1104307-01	05/03/11 15:11	1,060.00	1.00
GW0068	1104307-03	05/03/11 15:11	1,070.00	1.00
GW0043	1105015-01	05/03/11 15:11	1,060.00	1.00
Blank	1E02019-BLK2	05/03/11 15:11	1,000.00	1.00
LCS	1E02019-BS2	05/03/11 15:11	1,000.00	1.00
LCS Dup	1E02019-BSD2	05/03/11 15:11	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/26/11
Instrument ID:	MS-BNA1	Injection Time:	15:13
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	62.8	PASS
70	Less than 2% of 69	0.345	PASS
127	40 - 60% of 198	44.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.89	PASS
275	10 - 30% of 198	16.8	PASS
365	1 - 200% of 198	1.47	PASS
441	0.001 - 100% of 443	70.3	PASS
442	40 - 200% of 198	40.3	PASS
443	17 - 23% of 442	21.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/28/11
Instrument ID:	MS-BNA1	Injection Time:	09:18
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	48.5	PASS
70	Less than 2% of 69	0.314	PASS
127	40 - 60% of 198	40.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.62	PASS
275	10 - 30% of 198	20	PASS
365	1 - 200% of 198	2.17	PASS
441	0.001 - 100% of 443	75.3	PASS
442	40 - 200% of 198	77.2	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12404	Lab Sample ID:	1E12404-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/05/11
Instrument ID:	MS-BNA3	Injection Time:	15:52
Sequence:	1E12603	Lab Sample ID:	1E12603-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	59.1	PASS
70	Less than 2% of 69	0.425	PASS
127	40 - 60% of 198	58.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.38	PASS
275	10 - 30% of 198	21.1	PASS
365	1 - 200% of 198	2	PASS
441	0.001 - 100% of 443	75.9	PASS
442	40 - 200% of 198	42.3	PASS
443	17 - 23% of 442	20.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/07/11
Instrument ID:	MS-BNA1	Injection Time:	18:17
Sequence:	1E12801	Lab Sample ID:	1E12801-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	57.1	PASS
70	Less than 2% of 69	0.447	PASS
127	40 - 60% of 198	45.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.73	PASS
275	10 - 30% of 198	15.8	PASS
365	1 - 200% of 198	1.48	PASS
441	0.001 - 100% of 443	76.3	PASS
442	40 - 200% of 198	42.7	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/12/11
Instrument ID:	MS-BNA1	Injection Time:	17:44
Sequence:	1E13313	Lab Sample ID:	1E13313-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	33.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	50.9	PASS
70	Less than 2% of 69	0.385	PASS
127	40 - 60% of 198	40.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.55	PASS
275	10 - 30% of 198	18.5	PASS
365	1 - 200% of 198	1.95	PASS
441	0.001 - 100% of 443	79.4	PASS
442	40 - 200% of 198	64.5	PASS
443	17 - 23% of 442	20	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03208	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03208-TUN1	SEQ-TUN1.D	01/26/11 15:13
Cal Standard	1B03208-CAL1	SEQ-CAL1.D	01/26/11 15:40
Cal Standard	1B03208-CAL2	SEQ-CAL2.D	01/26/11 16:08
Cal Standard	1B03208-CAL3	SEQ-CAL3.D	01/26/11 16:37
Cal Standard	1B03208-CAL4	SEQ-CAL4.D	01/26/11 17:05
Cal Standard	1B03208-CAL5	SEQ-CAL5.D	01/26/11 17:34
Cal Standard	1B03208-CAL6	SEQ-CAL6.D	01/26/11 18:03
Cal Standard	1B03208-CAL7	SEQ-CAL7.D	01/26/11 18:31
Cal Standard	1B03208-CAL8	SEQ-CAL8.D	01/26/11 19:00
Cal Standard	1B03208-CAL9	SEQ-CAL9.D	01/26/11 19:29
Cal Standard	1B03208-CALA	SEQ-CALA.D	01/26/11 19:57
Cal Standard	1B03208-CALB	SEQ-CALB.D	01/26/11 20:26
Cal Standard	1B03208-CALC	SEQ-CALC.D	01/26/11 20:54
Cal Standard	1B03208-CALD	SEQ-CALD.D	01/26/11 21:23
Cal Standard	1B03208-CALE	SEQ-CALE.D	01/26/11 21:52
Cal Standard	1B03208-CALF	SEQ-CALF.D	01/26/11 22:20
Cal Standard	1B03208-CALG	SEQ-CALG.D	01/26/11 22:49
Initial Cal Check	1B03208-ICV1	SEQ-ICV1.D	01/26/11 23:17
Initial Cal Check	1B03208-ICV2	SEQ-ICV2.D	01/26/11 23:45
Initial Cal Check	1B03208-ICV3	SEQ-ICV3.D	01/27/11 00:13
MS Tune	1B03208-TUN2	SEQ-TUN1.D	01/28/11 09:18
Initial Cal Check	1B03208-ICV4	SEQ-ICV4.D	01/28/11 10:25

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12404	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12404-TUN1	SEQ-TUN1.D	05/02/11 13:51
Calibration Check	1E12404-CCV1	SEQ-CCV1.D	05/02/11 14:54
Blank	1D28006-BLK1	D28006B1.D	05/02/11 15:35
LCS	1D28006-BS1	D28006L1.D	05/02/11 16:09

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12603	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12603-TUN1	SEQ-TUN1.D	05/05/11 15:52
Calibration Check	1E12603-CCV1	SEQ-CCV1.D	05/05/11 16:17
Calibration Check	1E12603-CCV2	SEQ-CCV2.D	05/05/11 16:50
GW0061	1104286-01	0428601R.D	05/05/11 17:23
GW0062	1104286-03	0428603R.D	05/05/11 17:57
GW0063	1104286-05	0428605R.D	05/05/11 18:30

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12801	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12801-TUN1	SEQ-TUN1.D	05/07/11 18:17
Calibration Check	1E12801-CCV1	SEQ-CCV1.D	05/07/11 18:45
GW0058	1104289-01	0428901.D	05/08/11 04:02
GW0067	1104307-01	0430701.D	05/08/11 04:31
GW0068	1104307-03	0430703.D	05/08/11 05:00
GW0043	1105015-01	0501501.D	05/08/11 05:28

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13313	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E13313-TUN1	SEQ-TUN1.D	05/12/11 17:44
Calibration Check	1E13313-CCV1	SEQ-CCV1.D	05/12/11 18:11
Blank	1E02019-BLK2	E02019B2.D	05/12/11 19:50
LCS	1E02019-BS2	E02019L3.D	05/12/11 20:48
LCS Dup	1E02019-BSD2	E02019L4.D	05/12/11 21:16

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12404	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12404-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 05/02/11 14:54			
1,4-Dichlorobenzene-d4	526379	6.398	564644	6.39	93	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1907995	8.038	1974331	8.03	97	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	1074020	10.261	1113173	10.253	96	50 - 200	0.0080	+/-0.50	
Phenanthrene-d10	1796517	12.109	1849431	12.096	97	50 - 200	0.0130	+/-0.50	
Chrysene-d12	1911645	16.276	2020225	16.268	95	50 - 200	0.0080	+/-0.50	
Perylene-d12	1847760	19.027	1927021	19.014	96	50 - 200	0.0130	+/-0.50	
Blank (1D28006-BLK1)			Lab File ID: D28006B1.D			Analyzed: 05/02/11 15:35			
1,4-Dichlorobenzene-d4	567818	6.38	526379	6.398	108	50 - 200	-0.0180	+/-0.50	
Naphthalene-d8	2050912	8.02	1907995	8.038	107	50 - 200	-0.0180	+/-0.50	
Acenaphthene-d10	1183330	10.242	1074020	10.261	110	50 - 200	-0.0190	+/-0.50	
Phenanthrene-d10	1960916	12.085	1796517	12.109	109	50 - 200	-0.0240	+/-0.50	
Chrysene-d12	2145247	16.241	1911645	16.276	112	50 - 200	-0.0350	+/-0.50	
Perylene-d12	2139174	18.998	1847760	19.027	116	50 - 200	-0.0290	+/-0.50	
LCS (1D28006-BS1)			Lab File ID: D28006L1.D			Analyzed: 05/02/11 16:09			
1,4-Dichlorobenzene-d4	285166	6.394	526379	6.398	54	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1036964	8.034	1907995	8.038	54	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	579886	10.251	1074020	10.261	54	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	979246	12.099	1796517	12.109	55	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1049693	16.266	1911645	16.276	55	50 - 200	-0.0100	+/-0.50	
Perylene-d12	987345	19.012	1847760	19.027	53	50 - 200	-0.0150	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12603	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12603-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 05/05/11 16:17			
1,4-Dichlorobenzene-d4	806798	6.303	564644	6.39	143	50 - 200	-0.0870	+/-0.50	
Naphthalene-d8	2823596	7.948	1974331	8.03	143	50 - 200	-0.0820	+/-0.50	
Acenaphthene-d10	1648693	10.17	1113173	10.253	148	50 - 200	-0.0830	+/-0.50	
Phenanthrene-d10	2683128	12.008	1849431	12.096	145	50 - 200	-0.0880	+/-0.50	
Chrysene-d12	2882038	16.148	2020225	16.268	143	50 - 200	-0.1200	+/-0.50	
Perylene-d12	2753651	18.889	1927021	19.014	143	50 - 200	-0.1250	+/-0.50	
Calibration Check (1E12603-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 05/05/11 16:50			
1,4-Dichlorobenzene-d4	508371	6.302	806798	6.303	63	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1902569	7.942	2823596	7.948	67	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1097837	10.159	1648693	10.17	67	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1842883	12.008	2683128	12.008	69	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1970309	16.132	2882038	16.148	68	50 - 200	-0.0160	+/-0.50	
Perylene-d12	1986080	18.883	2753651	18.889	72	50 - 200	-0.0060	+/-0.50	
GW0061 (1104286-01)			Lab File ID: 0428601R.D			Analyzed: 05/05/11 17:23			
1,4-Dichlorobenzene-d4	599542	6.301	806798	6.303	74	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2245322	7.941	2823596	7.948	80	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1302016	10.163	1648693	10.17	79	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	2107940	12.006	2683128	12.008	79	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	2217610	16.136	2882038	16.148	77	50 - 200	-0.0120	+/-0.50	
Perylene-d12	2133031	18.887	2753651	18.889	77	50 - 200	-0.0020	+/-0.50	
GW0062 (1104286-03)			Lab File ID: 0428603R.D			Analyzed: 05/05/11 17:57			
1,4-Dichlorobenzene-d4	607748	6.317	806798	6.303	75	50 - 200	0.0140	+/-0.50	
Naphthalene-d8	2171623	7.951	2823596	7.948	77	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1285103	10.174	1648693	10.17	78	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	2063338	12.017	2683128	12.008	77	50 - 200	0.0090	+/-0.50	
Chrysene-d12	2083344	16.152	2882038	16.148	72	50 - 200	0.0040	+/-0.50	
Perylene-d12	2026651	18.908	2753651	18.889	74	50 - 200	0.0190	+/-0.50	
GW0063 (1104286-05)			Lab File ID: 0428605R.D			Analyzed: 05/05/11 18:30			
1,4-Dichlorobenzene-d4	636667	6.305	806798	6.303	79	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2300990	7.94	2823596	7.948	81	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1367218	10.162	1648693	10.17	83	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2289333	12.005	2683128	12.008	85	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	2418711	16.135	2882038	16.148	84	50 - 200	-0.0130	+/-0.50	
Perylene-d12	2297808	18.886	2753651	18.889	83	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12801	Instrument:	MS-BNA1
		Calibration:	1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E12801-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 05/07/11 18:45			
1,4-Dichlorobenzene-d4	647113	4.792	537968	6.172	120	50 - 200	-1.3800	+/-0.50	
Naphthalene-d8	1992573	6.272	1642233	7.653	121	50 - 200	-1.3810	+/-0.50	
Acenaphthene-d10	976668	8.358	783714	9.779	125	50 - 200	-1.4210	+/-0.50	
Phenanthrene-d10	1564461	10.115	1089157	11.597	144	50 - 200	-1.4820	+/-0.50	
Chrysene-d12	1018769	13.265	993474	14.84	103	50 - 200	-1.5750	+/-0.50	
Perylene-d12	822440	14.853	932715	16.597	88	50 - 200	-1.7440	+/-0.50	
GW0058 (1104289-01)			Lab File ID: 0428901.D			Analyzed: 05/08/11 04:02			
1,4-Dichlorobenzene-d4	687164	4.786	647113	4.792	106	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2002718	6.265	1992573	6.272	101	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	932912	8.346	976668	8.358	96	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1560632	10.103	1564461	10.115	100	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1407301	13.261	1018769	13.265	138	50 - 200	-0.0040	+/-0.50	
Perylene-d12	1027322	14.853	822440	14.853	125	50 - 200	0.0000	+/-0.50	
GW0067 (1104307-01)			Lab File ID: 0430701.D			Analyzed: 05/08/11 04:31			
1,4-Dichlorobenzene-d4	736255	4.792	647113	4.792	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2164074	6.269	1992573	6.272	109	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1104343	8.348	976668	8.358	113	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1711719	10.107	1564461	10.115	109	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1302498	13.257	1018769	13.265	128	50 - 200	-0.0080	+/-0.50	
Perylene-d12	923157	14.848	822440	14.853	112	50 - 200	-0.0050	+/-0.50	
GW0068 (1104307-03)			Lab File ID: 0430703.D			Analyzed: 05/08/11 05:00			
1,4-Dichlorobenzene-d4	683957	4.79	647113	4.792	106	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1998184	6.268	1992573	6.272	100	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	938265	8.345	976668	8.358	96	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	1375193	10.102	1564461	10.115	88	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	1046417	13.255	1018769	13.265	103	50 - 200	-0.0100	+/-0.50	
Perylene-d12	656967	14.847	822440	14.853	80	50 - 200	-0.0060	+/-0.50	
GW0043 (1105015-01)			Lab File ID: 0501501.D			Analyzed: 05/08/11 05:28			
1,4-Dichlorobenzene-d4	661089	4.79	647113	4.792	102	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2005609	6.268	1992573	6.272	101	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	1011388	8.345	976668	8.358	104	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	1522310	10.104	1564461	10.115	97	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1160749	13.258	1018769	13.265	114	50 - 200	-0.0070	+/-0.50	
Perylene-d12	856236	14.849	822440	14.853	104	50 - 200	-0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13313	Instrument:	MS-BNA1
		Calibration:	1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1E13313-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 05/12/11 18:11			
1,4-Dichlorobenzene-d4	502454	6.36	537968	6.172	93	50 - 200	0.1880	+/-0.50	
Naphthalene-d8	1571617	7.861	1642233	7.653	96	50 - 200	0.2080	+/-0.50	
Acenaphthene-d10	745093	9.999	783714	9.779	95	50 - 200	0.2200	+/-0.50	
Phenanthrene-d10	1264786	11.819	1089157	11.597	116	50 - 200	0.2220	+/-0.50	
Chrysene-d12	813400	15.077	993474	14.84	82	50 - 200	0.2370	+/-0.50	
Perylene-d12	503067	16.842	932715	16.597	54	50 - 200	0.2450	+/-0.50	
Blank (1E02019-BLK2)			Lab File ID: E02019B2.D			Analyzed: 05/12/11 19:50			
1,4-Dichlorobenzene-d4	592590	6.352	502454	6.36	118	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	1809965	7.856	1571617	7.861	115	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	925944	9.992	745093	9.999	124	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	1556052	11.817	1264786	11.819	123	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1126732	15.073	813400	15.077	139	50 - 200	-0.0040	+/-0.50	
Perylene-d12	902155	16.841	503067	16.842	179	50 - 200	-0.0010	+/-0.50	
LCS (1E02019-BS2)			Lab File ID: E02019L3.D			Analyzed: 05/12/11 20:48			
1,4-Dichlorobenzene-d4	472527	6.352	502454	6.36	94	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	1416322	7.861	1571617	7.861	90	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	683384	9.996	745093	9.999	92	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1065933	11.817	1264786	11.819	84	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	639458	15.074	813400	15.077	79	50 - 200	-0.0030	+/-0.50	
Perylene-d12	462684	16.839	503067	16.842	92	50 - 200	-0.0030	+/-0.50	
LCS Dup (1E02019-BSD2)			Lab File ID: E02019L4.D			Analyzed: 05/12/11 21:16			
1,4-Dichlorobenzene-d4	460184	6.353	502454	6.36	92	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	1560472	7.861	1571617	7.861	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	728069	9.996	745093	9.999	98	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1085350	11.812	1264786	11.819	86	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	670317	15.072	813400	15.077	82	50 - 200	-0.0050	+/-0.50	
Perylene-d12	505632	16.84	503067	16.842	101	50 - 200	-0.0020	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11_15:40 1/26/11_22:49

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
3,3'-Dichlorobenzidine	5	0.345776	10	0.3735446	20	0.3383405	40	0.4092793	50	0.4022903	60	0.4065189
Acenaphthene												
Acenaphthylene												
Acetophenone	5	1.718495	10	1.63753	20	1.524418	40	1.571136	50	1.546064	60	1.573002
Aniline												
Anthracene												
Atrazine	5	0.1907566	10	0.1974337	20	0.2066576	40	0.208239	50	0.2045953	60	0.2127531
Benzaldehyde	5	1.141413	10	1.160982	20	1.025443	40	1.064124	50	0.9565525	60	0.9552402
Benzidine	5	0.4873597	10	0.5759976	20	0.629192	40	0.6726627	50	0.6711953	60	0.6374861
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	5	1.660318	10	1.616332	20	1.415179	40	1.433678	50	1.271071	60	1.516557
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	5	0.119707	10	0.1253949	20	0.1145069	40	0.1360062	50	0.1337222	60	0.1317621
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11_15:40 1/26/11_22:49

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
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
2,6-Dichlorophenol	5	0.3378312	10	0.327105	20	0.2967903	40	0.2951475	50	0.3247614	60	0.3152692
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	5	0.7076939	10	0.7115041	20	0.6327187	40	0.6201284	50	0.572512	60	0.6466837
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11_15:40 1/26/11_22:49

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
3+4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	5	0.3041409	10	0.2738675	20	0.2545837	40	0.3138555	50	0.3096277	60	0.285836
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

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
3,3'-Dichlorobenzidine	80	0.4043308	100	0.3922965								
Acenaphthene					5	1.220878	10	1.118627	20	1.212567	40	1.085046
Acenaphthylene					5	1.94982	10	2.146404	20	1.823227	40	1.68579
Acetophenone	80	1.455533	100	1.415772								
Aniline					5	2.02499	10	2.162058	20	1.966631	40	2.001997
Anthracene					5	1.184955	10	1.081563	20	1.164455	40	1.091871
Atrazine	80	0.205928	100	0.2134976								
Benzaldehyde	80	0.9441259	100	0.8525288								
Benzidine	80	0.6973172	100	0.6804112								
Benzo(a)anthracene					5	1.162396	10	1.11186	20	1.213411	40	1.172758
Benzo(a)pyrene					5	1.028759	10	0.9828043	20	1.100819	40	1.122026
Benzo(b)fluoranthene					5	1.077629	10	1.039558	20	1.096949	40	1.152977
Benzo(g,h,i)perylene					5	0.8224602	10	0.7987842	20	0.8059861	40	0.7816645
Benzoic acid					5	0.1331081	10	0.1669506	20	0.2293678	40	0.2308795
Benzo(k)fluoranthene					5	1.29056	10	1.251448	20	1.316401	40	1.277549
Benzyl alcohol					5	0.8918595	10	0.9057471	20	0.8810121	40	0.8683949
1,1-Biphenyl	80	1.359401	100	1.268587								
4-Bromophenyl-phenylether					5	0.231972	10	0.2409782	20	0.260483	40	0.2108992
Butylbenzylphthalate					5	0.7540163	10	0.7862457	20	0.8246928	40	0.8176434
Caprolactam	80	0.1321053	100	0.1188764								
Carbazole					5	1.128219	10	1.02969	20	1.000536	40	0.8835432
4-Chloro-3-methylphenol					5	0.310694	10	0.2887984	20	0.2948105	40	0.2876101
4-Chloroaniline					5	0.4857113	10	0.4592316	20	0.4857785	40	0.4309516
Bis(2-chloroethoxy)methane					5	0.5100818	10	0.4912081	20	0.5153237	40	0.445233
Bis(2-chloroethyl)ether					5	1.442472	10	1.590034	20	1.374359	40	1.269574
2,2'-Oxybis-1-chloropropane					5	2.184818	10	2.306427	20	2.189966	40	2.011674
2-Chloronaphthalene					5	1.247416	10	1.208501	20	1.26931	40	1.16149
2-Chlorophenol					5	1.438581	10	1.288788	20	1.365938	40	1.295661
4-Chlorophenyl phenyl ether					5	0.5713084	10	0.574376	20	0.5688825	40	0.5386735
Chrysene					5	1.181379	10	1.170608	20	1.189425	40	1.176048
Dibenz(a,h)anthracene					5	0.7898291	10	0.7836814	20	0.7617359	40	0.8067768

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

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
Dibenzofuran					5	1.576125	10	1.695587	20	1.726036	40	1.527336
Di-n-butylphthalate					5	1.469552	10	1.493537	20	1.485016	40	1.459402
1,4-Dichlorobenzene					5	1.565822	10	1.580467	20	1.482342	40	1.374248
1,3-Dichlorobenzene					5	1.564366	10	1.550635	20	1.466796	40	1.395741
1,2-Dichlorobenzene					5	1.485698	10	1.514043	20	1.430022	40	1.33701
2,6-Dichlorophenol	80	0.3067876	100	0.3061151								
2,4-Dichlorophenol					5	0.318596	10	0.3480627	20	0.326904	40	0.2954511
Diethylphthalate					5	1.66071	10	1.577697	20	1.524236	40	1.261
2,4-Dimethylphenol					5	0.3868736	10	0.3553646	20	0.3612512	40	0.3462765
Dimethyl phthalate					5	1.371102	10	1.473182	20	1.50951	40	1.243328
4,6-Dinitro-2-methylphenol					5	5.478294E-02	10	6.840982E-02	20	0.1071133	40	0.1333907
2,4-Dinitrophenol					5	~~5.062163E-02~~	10	6.237037E-02	20	0.1011521	40	0.1317647
2,4-Dinitrotoluene					5	0.3090174	10	0.3793169	20	0.4185296	40	0.3974313
2,6-Dinitrotoluene					5	0.3183163	10	0.3493131	20	0.3754144	40	0.3444299
Di-n-octylphthalate					5	1.6316	10	1.635798	20	1.910787	40	1.92312
1,4-Dioxane	80	0.6451679	100	0.6224177								
1,2-Diphenylhydrazine					5	0.9580609	10	1.008812	20	0.8802152	40	0.8420501
Bis(2-ethylhexyl)phthalate					5	0.9781605	10	1.042781	20	1.141739	40	1.073501
Fluoranthene					5	1.174554	10	1.119604	20	1.158582	40	1.010021
Fluorene					5	1.293421	10	1.21811	20	1.266726	40	1.122978
2-Fluorobiphenyl					5	1.345385	10	1.322831	20	1.520308	40	1.324401
2-Fluorophenol					10	1.351626	20	1.413124	40	1.336365	80	1.187975
Hexachlorobenzene					5	0.2665323	10	0.2655703	20	0.2697611	40	0.2648784
Hexachlorobutadiene					5	0.2026878	10	0.1856802	20	0.1853857	40	0.1781549
Hexachlorocyclopentadiene					5	0.2904279	10	0.3291612	20	0.3651913	40	0.3514916
Hexachloroethane					5	0.6518942	10	0.6308284	20	0.5940863	40	0.5416978
Indeno(1,2,3-cd)pyrene					5	0.9892853	10	0.9494004	20	0.9327697	40	0.9464554
Isophorone					5	0.8217078	10	0.8399116	20	0.7783914	40	0.749957
1-Methylnaphthalene					5	0.5974456	10	0.5823433	20	0.5405367	40	0.4803757
2-Methylnaphthalene					5	0.5430144	10	0.5513543	20	0.5312456	40	0.4988653
2-Methylphenol					5	1.286482	10	1.250346	20	1.247537	40	1.126521

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

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
3+4-Methylphenol					5	1.253529	10	1.307357	20	1.301847	40	1.200152
Naphthalene					5	1.116486	10	1.119735	20	1.067584	40	0.9710557
4-Nitroaniline					5	0.2224683	10	0.2128799	20	0.1693595	40	0.2175572
3-Nitroaniline					5	0.3255846	10	0.3423936	20	0.370489	40	0.3366752
2-Nitroaniline					5	0.2654652	10	0.3352421	20	0.3339656	40	0.3505404
Nitrobenzene					5	0.3891568	10	0.4016634	20	0.3673868	40	0.3628202
Nitrobenzene-d5					5	0.3956987	10	0.3972185	20	0.3663041	40	0.3665365
4-Nitrophenol					5	0.1497267	10	0.1860405	20	0.2060501	40	0.1954678
2-Nitrophenol					5	0.2103668	10	0.2175712	20	0.2231657	40	0.2457888
N-Nitrosodimethylamine					5	0.4875362	10	0.5489131	20	0.5766275	40	0.6186587
N-Nitrosodiphenylamine					5	0.692447	10	0.7515103	20	0.7118897	40	0.6351698
N-Nitroso-di-n-propylamine					5	0.9311666	10	0.9269374	20	0.9262252	40	0.819147
Pentachlorophenol					5	0.1241727	10	0.1201355	20	0.1663006	40	0.1612227
Phenanthrene					5	1.200445	10	1.166657	20	1.130055	40	1.056359
Phenol					5	1.751446	10	1.879768	20	1.637272	40	1.637659
Phenol-d6					10	1.647681	20	1.763422	40	1.626008	80	1.603414
Pyrene					5	1.419325	10	1.399579	20	1.383023	40	1.359213
Pyridine					5	1.537536	10	1.635782	20	1.541409	40	1.602552
Terphenyl-d14					5	0.7926602	10	0.8057548	20	0.8474803	40	0.8784666
1,2,4,5-Tetrachlorobenzene	80	0.2829317	100	0.2756055								
2,3,4,6-Tetrachlorophenol					5	0.2994616	10	0.3272414	20	0.3682806	40	0.3554998
2,4,6-Tribromophenol					10	0.1431756	20	0.1442165	40	0.1561332	80	0.1413181
1,2,4-Trichlorobenzene					5	0.3682245	10	0.3577617	20	0.3747519	40	0.3449513
2,4,6-Trichlorophenol					5	0.3758167	10	0.3963889	20	0.4193174	40	0.4066011
2,4,5-Trichlorophenol					5	0.4069373	10	0.4358068	20	0.4686353	40	0.4421245

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine												
Acenaphthene	50	1.043914	60	1.052242	80	1.018418	100	0.9095531				
Acenaphthylene	50	1.661411	60	1.69419	80	1.475834	100	1.517921				
Acetophenone												
Aniline	50	1.898633	60	1.897488	80	1.838443	100	1.811652				
Anthracene	50	1.040675	60	0.9601388	80	0.986327	100	0.9420685				
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	50	1.123439	60	1.17446	80	1.085961	100	1.065421				
Benzo(a)pyrene	50	1.01213	60	1.049306	80	1.049837	100	1.00649				
Benzo(b)fluoranthene	50	1.139324	60	1.106174	80	1.072877	100	1.114459				
Benzo(g,h,i)perylene	50	0.7444304	60	0.6702291	80	0.781589	100	0.6663042				
Benzoic acid	50	0.2778284	60	0.2809271	80	0.2779468	100	0.2820542				
Benzo(k)fluoranthene	50	1.091518	60	1.245353	80	1.178262	100	1.066763				
Benzyl alcohol	50	0.8673854	60	0.8174535	80	0.7987832	100	0.7636324				
1,1-Biphenyl												
4-Bromophenyl-phenylether	50	0.239031	60	0.2319426	80	0.2214796	100	0.2055715				
Butylbenzylphthalate	50	0.7199546	60	0.8287041	80	0.732991	100	0.6918112				
Caprolactam												
Carbazole	50	0.8901069	60	0.8548234	80	0.7878224	100	0.7760328				
4-Chloro-3-methylphenol	50	0.2892545	60	0.2792311	80	0.2602546	100	0.2512146				
4-Chloroaniline	50	0.4412442	60	0.4082374	80	0.4006734	100	0.4141308				
Bis(2-chloroethoxy)methane	50	0.4453259	60	0.4436365	80	0.4141729	100	0.4082329				
Bis(2-chloroethyl)ether	50	1.300273	60	1.297892	80	1.290856	100	1.209098				
2,2'-Oxybis-1-chloropropane	50	1.717134	60	1.712654	80	1.555193	100	1.808949				
2-Chloronaphthalene	50	1.088393	60	1.064578	80	1.019875	100	1.06234				
2-Chlorophenol	50	1.283665	60	1.204709	80	1.275381	100	1.260114				
4-Chlorophenyl phenyl ether	50	0.5253523	60	0.5281174	80	0.5055696	100	0.4550214				
Chrysene	50	1.091368	60	1.142452	80	1.03431	100	0.996392				
Dibenz(a,h)anthracene	50	0.7553903	60	0.6819198	80	0.8216482	100	0.7302443				

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	50	1.475582	60	1.426709	80	1.272312	100	1.282609				
Di-n-butylphthalate	50	1.385354	60	1.243875	80	1.25377	100	1.212919				
1,4-Dichlorobenzene	50	1.327094	60	1.312307	80	1.202188	100	1.192058				
1,3-Dichlorobenzene	50	1.410471	60	1.324776	80	1.268259	100	1.304134				
1,2-Dichlorobenzene	50	1.283084	60	1.19311	80	1.152838	100	1.120647				
2,6-Dichlorophenol												
2,4-Dichlorophenol	50	0.3200354	60	0.319605	80	0.3094633	100	0.3044136				
Diethylphthalate	50	1.233003	60	1.223311	80	1.164583	100	1.135723				
2,4-Dimethylphenol	50	0.3329041	60	0.3471536	80	0.310377	100	0.2939744				
Dimethyl phthalate	50	1.313868	60	1.251818	80	1.246383	100	1.163514				
4,6-Dinitro-2-methylphenol	50	0.1503998	60	0.1421705	80	0.141276	100	0.1458094				
2,4-Dinitrophenol	50	0.1515695	60	0.1605612	80	0.1730286	100	0.1784883				
2,4-Dinitrotoluene	50	0.3875191	60	0.3787391	80	0.3429866	100	0.3779481				
2,6-Dinitrotoluene	50	0.3554451	60	0.3624102	80	0.3355308	100	0.3457358				
Di-n-octylphthalate	50	1.690144	60	1.92358	80	1.727296	100	1.901108				
1,4-Dioxane												
1,2-Diphenylhydrazine	50	0.8308116	60	0.7998217	80	0.7293861	100	0.6287272				
Bis(2-ethylhexyl)phthalate	50	1.024078	60	1.086512	80	0.9241547	100	0.9297745				
Fluoranthene	50	1.108267	60	1.002067	80	1.007233	100	1.002433				
Fluorene	50	1.117687	60	1.11628	80	1.079617	100	0.961522				
2-Fluorobiphenyl	50	1.225178	60	1.232052	80	1.237633	100	1.19141				
2-Fluorophenol	100	1.20463	120	1.147633	160	1.052205	200	1.104915				
Hexachlorobenzene	50	0.2590678	60	0.2544472	80	0.2593156	100	0.2389274				
Hexachlorobutadiene	50	0.170282	60	0.1647461	80	0.1585373	100	0.1651874				
Hexachlorocyclopentadiene	50	0.367711	60	0.3489062	80	0.3745824	100	0.3733203				
Hexachloroethane	50	0.5772956	60	0.5438372	80	0.5195182	100	0.5209373				
Indeno(1,2,3-cd)pyrene	50	0.9040208	60	0.8189074	80	0.9751703	100	0.8667418				
Isophorone	50	0.7902478	60	0.746112	80	0.7366049	100	0.7091168				
1-Methylnaphthalene	50	0.4934924	60	0.4820733	80	0.4428706	100	0.4445212				
2-Methylnaphthalene	50	0.4906804	60	0.4548918	80	0.4483581	100	0.4288413				
2-Methylphenol	50	1.096435	60	1.008644	80	1.011912	100	1.054777				

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol	50	1.183712	60	1.087107	80	1.08938	100	1.065014				
Naphthalene	50	0.9156539	60	0.8994825	80	0.803674	100	0.8087121				
4-Nitroaniline	50	0.2554806	60	0.2397759	80	0.265351	100	0.2644746				
3-Nitroaniline	50	0.3401997	60	0.3519287	80	0.3683457	100	0.3506128				
2-Nitroaniline	50	0.3128571	60	0.3442502	80	0.3309131	100	0.3278767				
Nitrobenzene	50	0.3639734	60	0.3552985	80	0.316403	100	0.3115827				
Nitrobenzene-d5	50	0.3848744	60	0.3536817	80	0.3468868	100	0.3422753				
4-Nitrophenol	50	0.2163265	60	0.210757	80	0.2207467	100	0.1969781				
2-Nitrophenol	50	0.2287002	60	0.2342643	80	0.2149201	100	0.2181142				
N-Nitrosodimethylamine	50	0.5975275	60	0.5849924	80	0.5484751	100	0.6183085				
N-Nitrosodiphenylamine	50	0.6608435	60	0.6252076	80	0.6238943	100	0.5782682				
N-Nitroso-di-n-propylamine	50	0.8173453	60	0.7504894	80	0.7585171	100	0.743702				
Pentachlorophenol	50	0.1801354	60	0.1769821	80	0.1807552	100	0.1820394				
Phenanthrene	50	1.059757	60	0.986977	80	0.9344506	100	0.9248322				
Phenol	50	1.575537	60	1.559301	80	1.423146	100	1.454171				
Phenol-d6	100	1.524433	120	1.494738	160	1.34971	200	1.445646				
Pyrene	50	1.24653	60	1.29918	80	1.21817	100	1.066224				
Pyridine	50	1.575985	60	1.509723	80	1.577055	100	1.61602				
Terphenyl-d14	50	0.8111087	60	0.848248	80	0.7819749	100	0.7308348				
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	50	0.3512989	60	0.3437278	80	0.317592	100	0.3289565				
2,4,6-Tribromophenol	100	0.1487108	120	0.1437723	160	0.1452231	200	0.1366756				
1,2,4-Trichlorobenzene	50	0.3420562	60	0.3493295	80	0.3106524	100	0.3076826				
2,4,6-Trichlorophenol	50	0.3828678	60	0.38452	80	0.4245115	100	0.4173965				
2,4,5-Trichlorophenol	50	0.4433099	60	0.420189	80	0.429527	100	0.4083834				

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3840471	7.376638	14.80975	2.744989E-02			15	
Acenaphthene	1.082656	9.483861	9.821625	5.657461E-02			CCC (30)	
Acenaphthylene	1.744325	12.75083	9.605125	6.858755E-02			15	
Acetophenone	1.555244	6.168212	6.634375	7.218448E-02			15	
Aniline	1.950237	5.831973	5.807375	0.1033171			15	
Anthracene	1.056507	8.585155	11.68625	5.730172E-02			15	
Atrazine	0.2049826	3.718523	11.27987	9.895935E-02			15	
Benzaldehyde	1.012551	10.43666	5.684375	9.183361E-02			15	
Benzidine	0.6314527	11.01948	13.25575	3.711405E-02			15	
Benzo(a)anthracene	1.138713	4.414255	14.83125	3.720446E-02			15	
Benzo(a)pyrene	1.044021	4.547513	16.52988	3.873379E-02			CCC (30)	
Benzo(b)fluoranthene	1.099993	3.348838	16.14687	3.650013E-02			15	
Benzo(g,h,i)perylene	0.758931	7.956935	18.3315	6.411751E-02			15	
Benzoic acid	0.2348828	24.43774	7.4215	0.7447993	0.9967614		0.995	
Benzo(k)fluoranthene	1.214732	7.667493	16.18175	5.256876E-02			15	
Benzyl alcohol	0.8492835	5.904117	6.339625	0.134646			15	
1,1-Biphenyl	1.44264	10.16426	9.0865	7.580724E-02			15	
4-Bromophenyl-phenylether	0.2302946	7.64967	11.058	3.698206E-02			15	
Butylbenzylphthalate	0.7695074	6.808174	14.17538	0.0181131			15	
Caprolactam	0.1265101	6.344437	8.16975	0.2428858			15	
Carbazole	0.9188467	13.42596	11.88687	4.735667E-02			15	
4-Chloro-3-methylphenol	0.2827335	6.739682	8.335875	5.589678E-02			CCC (30)	
4-Chloroaniline	0.4407449	7.602189	7.752375	5.839612E-02			15	
Bis(2-chloroethoxy)methane	0.4591519	9.024322	7.3845	9.015245E-02			15	
Bis(2-chloroethyl)ether	1.34682	8.949026	5.887375	0.1010167			15	
2,2'-Oxybis-1-chloropropane	1.935852	14.19111	6.495	7.787477E-02			15	
2-Chloronaphthalene	1.140238	8.268771	9.102	5.514584E-02			15	
2-Chlorophenol	1.301605	5.44966	5.93325	0.0640218			15	
4-Chlorophenyl phenyl ether	0.5334126	7.569953	10.46213	3.392237E-02			15	
Chrysene	1.122748	6.577449	14.87787	4.224206E-02			15	
Dibenz(a,h)anthracene	0.7664032	5.859635	17.97362	4.666747E-02			15	
Dibenzofuran	1.497787	11.31125	10.03125	6.286963E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.375428	8.7109	12.34463	0.0340847			15	
1,4-Dichlorobenzene	1.379566	10.94327	6.191375	6.203767E-02			CCC (30)	
1,3-Dichlorobenzene	1.410647	7.838891	6.106	5.463781E-02			15	
1,2-Dichlorobenzene	1.314556	11.58735	6.360125	4.155267E-02			15	
2,6-Dichlorophenol	0.3137259	4.852462	7.75425	4.420223E-02			15	
2,4-Dichlorophenol	0.3178164	4.983195	7.490125	8.883757E-02			CCC (30)	
Diethylphthalate	1.347533	15.27684	10.34412	9.254366E-02	0.9972915		0.995	
2,4-Dimethylphenol	0.3417719	8.563737	7.26575	0.1065429			15	
Dimethyl phthalate	1.321588	9.153659	9.484625	0.1434108			15	
4,6-Dinitro-2-methylphenol	0.1179191	31.66593	10.527	0.1204279	0.9973104		0.995	
2,4-Dinitrophenol	0.1369907	30.78159	9.873571	9.653076E-02	0.9960785		SPCC (0.05)	
2,4-Dinitrotoluene	0.373936	9.021128	10.03375	9.903814E-02			15	
2,6-Dinitrotoluene	0.3483244	4.936864	9.545375	0.1119241			15	
Di-n-octylphthalate	1.792929	7.459237	15.71263	0.024866			CCC (30)	
1,4-Dioxane	0.6448533	7.152144	3.019375	0.1113753			15	
1,2-Diphenylhydrazine	0.8347356	14.48987	10.65375	4.850528E-02			15	
Bis(2-ethylhexyl)phthalate	1.025088	7.512426	14.90587	0.0193314			15	
Fluoranthene	1.072845	6.98906	13.07425	4.253064E-02			CCC (30)	
Fluorene	1.147043	9.444569	10.45175	5.284617E-02			15	
2-Fluorobiphenyl	1.2999	8.100212	8.967125	3.987571E-02			15	
2-Fluorophenol	1.224809	10.50463	4.742625	0.1316694			15	
Hexachlorobenzene	0.2598125	3.761925	11.1185	4.707497E-02			15	
Hexachlorobutadiene	0.1763327	8.243307	7.8355	4.165048E-02			CCC (30)	
Hexachlorocyclopentadiene	0.350099	8.135736	8.706625	3.605388E-02			SPCC (0.05)	
Hexachloroethane	0.5725119	8.716146	6.7485	3.321397E-02			15	
Indeno(1,2,3-cd)pyrene	0.9228439	6.186788	17.94762	5.505283E-02			15	
Isophorone	0.7715062	5.758819	7.1245	0.1880514			15	
1-Methylnaphthalene	0.5079573	11.64757	8.633	4.208229E-02			15	
2-Methylnaphthalene	0.4934064	9.372333	8.513125	5.344917E-02			15	
2-Methylphenol	1.135332	9.877222	6.461875	0.1007337			15	
3+4-Methylphenol	1.186012	8.228414	6.647625	0.1700502			15	
Naphthalene	0.9627979	13.28902	7.679625	6.733623E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	1/26/11 15:40 1/26/11 22:49

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	0.2309184	14.04035	10.48912	0.1289535			15	
3-Nitroaniline	0.3482787	4.427347	9.746125	0.1226337			15	
2-Nitroaniline	0.3251388	8.173008	9.237625	6.849578E-02			15	
Nitrobenzene	0.3585356	8.765722	6.833875	0.1095103			15	
Nitrobenzene-d5	0.3691845	5.802246	6.809875	9.945623E-02			15	
4-Nitrophenol	0.1977617	11.40524	9.955125	0.1174457			SPCC (0.05)	
2-Nitrophenol	0.2241114	5.190145	7.205375	6.189121E-02			CCC (30)	
N-Nitrosodimethylamine	0.5726299	7.635147	3.346125	0.1829083			15	
N-Nitrosodiphenylamine	0.6599038	8.482011	10.61075	6.517892E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.8341912	9.917143	6.653625	0.1894353			SPCC (0.05)	
Pentachlorophenol	0.1614679	15.71491	11.36463	3.521819E-02	0.9986717		CCC (30)	
Phenanthrene	1.057442	9.810503	11.62413	4.673016E-02			15	
Phenol	1.614787	9.276235	5.7815	0.2208323			CCC (30)	
Phenol-d6	1.556882	8.341379	5.768125	0.2252886			15	
Pyrene	1.298906	9.144153	13.35137	4.721813E-02			15	
Pyridine	1.574508	2.729928	3.381875	0.3664935			15	
Terphenyl-d14	0.812066	5.680172	13.56038	3.188842E-02			15	
1,2,4,5-Tetrachlorobenzene	0.2875561	7.072892	8.715	4.094783E-02			15	
2,3,4,6-Tetrachlorophenol	0.3365073	6.658431	10.18512	5.841319E-02			15	
2,4,6-Tribromophenol	0.1449031	3.921225	10.74725	8.448053E-02			15	
1,2,4-Trichlorobenzene	0.3444263	7.098695	7.588375	0.0361532			15	
2,4,6-Trichlorophenol	0.4009275	4.66083	8.857625	4.361742E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4318641	4.727981	8.89625	5.449523E-02			15	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	5	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974254	60	2.113941
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735507	40	0.2647946	50	0.2615823	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617163	10	0.8673336	20	0.9412286	40	0.808192	50	0.8346686	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469078	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539725	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178278
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019167	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147532	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Di-n-butylphthalate	5	1.291838	10	1.2633	20	1.265435	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523558	40	1.3491	50	1.379529	60	1.434978
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.3841369	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235793
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252792
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427943	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.2524031	40	0.2278087	50	0.2304762	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782143	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962933
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215085	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013248	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549955	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
3+4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957
4-Nitroaniline	5	0.3430184	10	0.3360743	20	0.3479662	40	0.3116398	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121727	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493316	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896115	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.229719	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591353	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729039
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679837	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866967	40	0.6961461	50	0.7143354	60	0.753249
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132209	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189467

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	80	1.070428	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086365	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159519								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983804	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Di-n-butylphthalate	80	1.11586	100	1.111806								
1,4-Dichlorobenzene	80	1.392334	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208456	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.8016431	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617696	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.7308301								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
3+4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.412504	60	0.4101255	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288294	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.80832	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.8623	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654444	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890507	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20774	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157608	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400746	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008023	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492852	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.03815	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185735	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697993	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755144	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1122001	Instrument:	MS-BNA3		
Matrix:	Water	Calibration Dates:	4/29/11 17:45	4/30/11 1:58	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.466992	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.64104	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326675	7.594375	0.1603634			15	
Dimethyl phthalate	1.244441	5.685728	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453456	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449686	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.730629	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748586	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.01217	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.1868569	4.354219	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.374975	6.237495	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780526	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161853	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83852	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3+4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1122001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	4/29/11 17:45	4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	0.3272887	5.141513	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120647	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241451	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033432	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409362	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277107	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444736	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940565	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435474	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869366	9.329125	9.747652E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	48.86	1.082656	1.057895		-2.3	20
Acenaphthylene	A	50.00	53.91	1.744325	1.88061		7.8	20
Anthracene	A	50.00	54.49	1.056507	1.151439		9.0	20
Benzo(a)anthracene	A	50.00	48.79	1.138713	1.111173		-2.4	20
Benzo(a)pyrene	A	50.00	51.01	1.044021	1.065141		2.0	20
Benzo(b)fluoranthene	A	50.00	53.46	1.099993	1.176117		6.9	20
Benzo(g,h,i)perylene	A	50.00	48.22	0.758931	0.7319486		-3.6	20
Benzoic acid	L	50.00	49.49	0.2348828	0.2661538		-1.0	20
Benzo(k)fluoranthene	A	50.00	51.57	1.214732	1.252919		3.1	20
4-Bromophenyl-phenylether	A	50.00	50.34	0.2302946	0.2318677		0.7	20
Butylbenzylphthalate	A	50.00	48.50	0.7695074	0.7463976		-3.0	20
Carbazole	A	50.00	49.83	0.9188467	0.9156435		-0.3	20
4-Chloro-3-methylphenol	A	50.00	48.88	0.2827335	0.2763814		-2.2	20
4-Chloroaniline	A	50.00	48.88	0.4407449	0.4308957		-2.2	20
Bis(2-chloroethoxy)methane	A	50.00	48.87	0.4591519	0.4488008		-2.3	20
Bis(2-chloroethyl)ether	A	50.00	51.95	1.34682	1.39927		3.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.78	1.935852	2.04349		5.6	20
2-Chloronaphthalene	A	50.00	54.43	1.140238	1.241253		8.9	20
2-Chlorophenol	A	50.00	55.87	1.301605	1.45441		11.7	20
4-Chlorophenyl phenyl ether	A	50.00	53.91	0.5334126	0.5751643		7.8	20
Chrysene	A	50.00	49.81	1.122748	1.118473		-0.4	20
Dibenz(a,h)anthracene	A	50.00	51.54	0.7664032	0.7899782		3.1	20
Dibenzofuran	A	50.00	53.13	1.497787	1.591559		6.3	20
Di-n-butylphthalate	A	50.00	53.06	1.375428	1.459543		6.1	20
2,4-Dichlorophenol	A	50.00	50.78	0.3178164	0.3228019		1.6	20
2,4-Dimethylphenol	A	50.00	53.12	0.3417719	0.363117		6.2	20
Dimethyl phthalate	A	50.00	46.62	1.321588	1.232204		-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	57.23	0.1179191	0.1614366		14.5	20
2,4-Dinitrotoluene	A	50.00	56.52	0.373936	0.4227034		13.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	56.02	0.3483244	0.3902734		12.0	20
Di-n-octylphthalate	A	50.00	54.25	1.792929	1.945241		8.5	20
1,2-Diphenylhydrazine	A	50.00	55.94	0.8347356	0.9339785		11.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	48.68	1.025088	0.9980238		-2.6	20
Fluoranthene	A	50.00	53.77	1.072845	1.153832		7.5	20
Fluorene	A	50.00	54.89	1.147043	1.25925		9.8	20
Hexachlorobenzene	A	50.00	52.99	0.2598125	0.2753324		6.0	20
Hexachlorobutadiene	A	50.00	50.82	0.1763327	0.1792089		1.6	20
Hexachlorocyclopentadiene	A	50.00	53.52	0.350099	0.3747613	0.05	7.0	20
Hexachloroethane	A	50.00	51.75	0.5725119	0.5925988		3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.45	0.9228439	0.9311681		0.9	20
Isophorone	A	50.00	44.69	0.7715062	0.6895249		-10.6	20
1-Methylnaphthalene	A	50.00	47.14	0.5079573	0.4789479		-5.7	20
2-Methylnaphthalene	A	50.00	47.28	0.4934064	0.4665976		-5.4	20
2-Methylphenol	A	50.00	55.42	1.135332	1.258309		10.8	20
3+4-Methylphenol	A	50.00	48.86	1.186012	1.158893		-2.3	20
3-Nitroaniline	A	50.00	56.90	0.3482787	0.3963161		13.8	20
2-Nitroaniline	A	50.00	53.24	0.3251388	0.3462363		6.5	20
Nitrobenzene	A	50.00	45.58	0.3585356	0.3268608		-8.8	20
4-Nitrophenol	A	50.00	55.39	0.1977617	0.2190963	0.05	10.8	20
2-Nitrophenol	A	50.00	54.79	0.2241114	0.2455745		9.6	20
N-Nitrosodiphenylamine	A	50.00	56.39	0.6599038	0.7442938		12.8	20
N-Nitroso-di-n-propylamine	A	50.00	49.68	0.8341912	0.8288013	0.05	-0.6	20
Phenanthrene	A	50.00	56.16	1.057442	1.187789		12.3	20
Phenol	A	50.00	56.47	1.614787	1.823722		12.9	20
Pyrene	A	50.00	48.44	1.298906	1.258473		-3.1	20
2,4,6-Trichlorophenol	A	50.00	54.97	0.4009275	0.440817		9.9	20
2,4,5-Trichlorophenol	A	50.00	53.87	0.4318641	0.4652694		7.7	20
2-Fluorobiphenyl	A	50.00	56.18	1.2999	1.460568		12.4	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorophenol	A	100.0	113.8	1.224809	1.394017		13.8	20
Nitrobenzene-d5	A	50.00	51.69	0.3691845	0.3816462		3.4	20
Terphenyl-d14	A	50.00	45.39	0.812066	0.7371136		-9.2	20
2,4,6-Tribromophenol	A	100.0	118.8	0.1449031	0.1721949		18.8	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV2	Injection Time:	23:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	51.60	0.3840471	0.3963298		3.2	20
Acetophenone	A	50.00	51.76	1.555244	1.609954		3.5	20
Atrazine	A	50.00	52.28	0.2049826	0.214327		4.6	20
Benzaldehyde	A	50.00	43.46	1.012551	0.8801513		-13.1	20
Benzidine	A	50.00	50.30	0.6314527	0.6352446		0.6	20
1,1-Biphenyl	A	50.00	55.15	1.44264	1.591358		10.3	20
Caprolactam	A	50.00	55.66	0.1265101	0.1408405		11.3	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/27/11
Lab Sample ID:	1B03208-ICV3	Injection Time:	00:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diethylphthalate	L	50.00	48.25	1.347533	1.174754		-3.5	20
2,4-Dinitrophenol	L	50.00	57.52	0.1369907	0.1861539	0.05	15.0	20
Pentachlorophenol	L	50.00	58.37	0.1614679	0.2074009		16.7	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/28/11
Lab Sample ID:	1B03208-ICV4	Injection Time:	10:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4-Nitroaniline	A	50.00	42.68	0.2309184	0.1971107		-14.6	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	50.99	1.110356	1.132237		2.0	20
Acenaphthylene	A	50.00	52.08	1.725208	1.796804		4.1	20
Anthracene	A	50.00	53.21	1.092671	1.162801		6.4	20
Benzo(a)anthracene	A	50.00	53.94	1.119297	1.207582		7.9	20
Benzo(a)pyrene	A	50.00	54.76	1.045862	1.145479		9.5	20
Benzo(b)fluoranthene	A	50.00	53.30	1.093698	1.165866		6.6	20
Benzo(g,h,i)perylene	A	50.00	55.29	1.033139	1.142352		10.6	20
Benzoic acid	A	50.00	56.42	0.2679395	0.302351		12.8	20
Benzo(k)fluoranthene	A	50.00	54.50	1.107729	1.207431		9.0	20
4-Bromophenyl-phenylether	A	50.00	52.91	0.2284778	0.2417889		5.8	20
Butylbenzylphthalate	A	50.00	56.82	0.5129818	0.582953		13.6	20
Carbazole	A	50.00	51.29	1.044381	1.071248		2.6	20
4-Chloro-3-methylphenol	A	50.00	52.69	0.3113523	0.3281338		5.4	20
4-Chloroaniline	A	50.00	50.78	0.4225325	0.4291082		1.6	20
Bis(2-chloroethoxy)methane	A	50.00	54.60	0.4269873	0.4662333		9.2	20
Bis(2-chloroethyl)ether	A	50.00	52.57	1.297842	1.3646		5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.93	1.947114	2.022377		3.9	20
2-Chloronaphthalene	A	50.00	52.76	1.087766	1.147861		5.5	20
2-Chlorophenol	A	50.00	53.41	1.315004	1.404776		6.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.82	0.6233489	0.6461009		3.6	20
Chrysene	A	50.00	53.37	1.047865	1.118417		6.7	20
Dibenz(a,h)anthracene	A	50.00	56.42	1.004478	1.133417		12.8	20
Dibenzofuran	A	50.00	53.17	1.535116	1.632439		6.3	20
Di-n-butylphthalate	A	50.00	52.16	1.182012	1.233187		4.3	20
2,4-Dichlorophenol	A	50.00	52.27	0.3046728	0.3185106		4.5	20
Diethylphthalate	A	50.00	52.18	1.194731	1.246888		4.4	20
2,4-Dimethylphenol	A	50.00	53.80	0.3636609	0.3913226		7.6	20
Dimethyl phthalate	A	50.00	52.08	1.244441	1.296196		4.2	20
2,4-Dinitrotoluene	A	50.00	52.99	0.3929838	0.4165004		6.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.3207071		7.2	20
Di-n-octylphthalate	A	50.00	55.56	1.204345	1.338299		11.1	20
1,2-Diphenylhydrazine	A	50.00	51.69	0.8507103	0.8794004		3.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.80	0.6793074	0.7445394		9.6	20
Fluoranthene	A	50.00	52.70	1.233837	1.300481		5.4	20
Fluorene	A	50.00	52.74	1.337519	1.410746		5.5	20
Hexachlorobenzene	A	50.00	53.53	0.244362	0.2616019		7.1	20
Hexachlorobutadiene	A	50.00	56.62	0.1868569	0.2116138		13.2	20
Hexachlorocyclopentadiene	A	50.00	50.51	0.374975	0.3787812	0.05	1.0	20
Hexachloroethane	A	50.00	53.43	0.5464632	0.5839846		6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.78	1.038008	1.157962		11.6	20
Isophorone	A	50.00	51.26	0.7442763	0.7630284		2.5	20
1-Methylnaphthalene	A	50.00	50.47	0.5872691	0.5928174		0.9	20
2-Methylnaphthalene	A	50.00	52.21	0.5974192	0.6238767		4.4	20
2-Methylphenol	A	50.00	52.67	1.208635	1.273291		5.3	20
3+4-Methylphenol	A	50.00	51.20	1.268409	1.298786		2.4	20
4-Nitroaniline	A	50.00	53.01	0.3272887	0.3469818		6.0	20
3-Nitroaniline	A	50.00	53.20	0.3230815	0.3437513		6.4	20
2-Nitroaniline	A	50.00	53.86	0.3700237	0.3985975		7.7	20
Nitrobenzene	A	50.00	52.75	0.4107927	0.4333935		5.5	20
4-Nitrophenol	A	50.00	53.70	0.2721678	0.292285	0.05	7.4	20
2-Nitrophenol	A	50.00	53.57	0.1941449	0.2080171		7.1	20
N-Nitrosodiphenylamine	A	50.00	53.24	0.6728889	0.7164793		6.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.25	1.033966	1.12186	0.05	8.5	20
Phenanthrene	A	50.00	53.38	1.075866	1.148675		6.8	20
Phenol	A	50.00	52.06	1.687698	1.757079		4.1	20
Pyrene	A	50.00	54.76	1.163766	1.274472		9.5	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.382004	0.4101383		7.4	20
2,4,5-Trichlorophenol	A	50.00	52.48	0.4142645	0.4348178		5.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorobiphenyl	A	50.00	54.11	1.265417	1.369371		8.2	20
2-Fluorophenol	A	100.0	114.6	1.142171	1.308424		14.6	20
Nitrobenzene-d5	A	50.00	55.94	0.4075494	0.4559688		11.9	20
Terphenyl-d14	A	50.00	54.87	0.7462196	0.8189273		9.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.109869	0.1200227		9.2	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.88	1.801986	1.761675		-2.2	20
Atrazine	A	50.00	50.39	0.2344682	0.2362964		0.8	20
Benzaldehyde	A	50.00	39.00	1.010105	0.7878189		-22.0	20 *
Benzidine	A	50.00	49.05	0.641297	0.6290564		-1.9	20
1,1-Biphenyl	A	50.00	51.20	1.444453	1.479098		2.4	20
Caprolactam	A	50.00	56.58	0.1128421	0.1276823		13.2	20
3,3'-Dichlorobenzidine	A	50.00	52.77	0.4067228	0.4292329		5.5	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV3	Injection Time:	17:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	A	50.00	53.45	0.1454148	0.1554342		6.9	20
2,4-Dinitrophenol	A	50.00	61.89	0.1854397	0.2295477	0.05	23.8	20 *
Pentachlorophenol	A	50.00	56.14	0.1623094	0.1822508		12.3	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	05/02/11
Lab Sample ID:	1E12203-ICV4	Injection Time:	14:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	50.85	1.010105	1.027374		1.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12404	Injection Date:	05/02/11
Lab Sample ID:	1E12404-CCV1	Injection Time:	14:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	47.53	1.110356	1.055522		-4.9	20
Acenaphthylene	A	50.00	49.72	1.725208	1.71561		-0.6	20
Acetophenone	A	50.00	43.33	1.801986	1.561591		-13.3	20
Anthracene	A	50.00	49.09	1.092671	1.072722		-1.8	20
Atrazine	A	50.00	42.23	0.2344682	0.1980441		-15.5	20
Benzaldehyde	A	50.00	46.17	1.010105	0.932832		-7.6	20
Benzidine	A	50.00	54.64	0.641297	0.700877		9.3	20
Benzo(a)anthracene	A	50.00	49.65	1.119297	1.111393		-0.7	20
Benzo(a)pyrene	A	50.00	50.70	1.045862	1.060487		1.4	20
Benzo(b)fluoranthene	A	50.00	54.49	1.093698	1.191959		9.0	20
Benzo(g,h,i)perylene	A	50.00	50.94	1.033139	1.05257		1.9	20
Benzoic acid	A	50.00	47.74	0.2679395	0.2558074		-4.5	20
Benzo(k)fluoranthene	A	50.00	48.74	1.107729	1.079923		-2.5	20
1,1-Biphenyl	A	50.00	43.37	1.444453	1.252917		-13.3	20
4-Bromophenyl-phenylether	A	50.00	48.18	0.2284778	0.2201749		-3.6	20
Butylbenzylphthalate	A	50.00	52.27	0.5129818	0.5362699		4.5	20
Caprolactam	A	50.00	46.80	0.1128421	0.1056137		-6.4	20
Carbazole	A	50.00	48.02	1.044381	1.003095		-4.0	20
4-Chloro-3-methylphenol	A	50.00	47.64	0.3113523	0.296675		-4.7	20
4-Chloroaniline	A	50.00	49.23	0.4225325	0.4160648		-1.5	20
Bis(2-chloroethoxy)methane	A	50.00	50.13	0.4269873	0.4280808		0.3	20
Bis(2-chloroethyl)ether	A	50.00	48.97	1.297842	1.271131		-2.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.44	1.947114	1.88647		-3.1	20
2-Chloronaphthalene	A	50.00	61.44	1.087766	1.336675		22.9	20 *
2-Chlorophenol	A	50.00	49.22	1.315004	1.294368		-1.6	20
4-Chlorophenyl phenyl ether	A	50.00	47.10	0.6233489	0.5872092		-5.8	20
Chrysene	A	50.00	49.68	1.047865	1.041181		-0.6	20
Dibenz(a,h)anthracene	A	50.00	51.82	1.004478	1.04101		3.6	20
Dibenzofuran	A	50.00	49.55	1.535116	1.521321		-0.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12404	Injection Date:	05/02/11
Lab Sample ID:	1E12404-CCV1	Injection Time:	14:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butylphthalate	A	50.00	48.36	1.182012	1.143335		-3.3	20	
3,3'-Dichlorobenzidine	A	50.00	50.68	0.4067228	0.4122531		1.4	20	
2,4-Dichlorophenol	A	50.00	47.68	0.3046728	0.290527		-4.6	20	
Diethylphthalate	A	50.00	48.43	1.194731	1.157211		-3.1	20	
2,4-Dimethylphenol	A	50.00	48.92	0.3636609	0.3557842		-2.2	20	
Dimethyl phthalate	A	50.00	48.18	1.244441	1.199091		-3.6	20	
4,6-Dinitro-2-methylphenol	A	50.00	54.28	0.1454148	0.1578575		8.6	20	
2,4-Dinitrophenol	A	50.00	61.59	0.1854397	0.2284419	0.05	23.2	20	*
2,4-Dinitrotoluene	A	50.00	48.25	0.3929838	0.3792466		-3.5	20	
2,6-Dinitrotoluene	A	50.00	49.47	0.2991862	0.2959923		-1.1	20	
Di-n-octylphthalate	A	50.00	51.93	1.204345	1.250928		3.9	20	
1,2-Diphenylhydrazine	A	50.00	47.91	0.8507103	0.8152054		-4.2	20	
Bis(2-ethylhexyl)phthalate	A	50.00	50.55	0.6793074	0.6867819		1.1	20	
Fluoranthene	A	50.00	48.60	1.233837	1.199364		-2.8	20	
Fluorene	A	50.00	48.43	1.337519	1.295636		-3.1	20	
Hexachlorobenzene	A	50.00	49.07	0.244362	0.2398058		-1.9	20	
Hexachlorobutadiene	A	50.00	51.43	0.1868569	0.1922118		2.9	20	
Hexachlorocyclopentadiene	A	50.00	48.55	0.374975	0.3640804	0.05	-2.9	20	
Hexachloroethane	A	50.00	48.72	0.5464632	0.5325334		-2.5	20	
Indeno(1,2,3-cd)pyrene	A	50.00	50.41	1.038008	1.046516		0.8	20	
Isophorone	A	50.00	46.28	0.7442763	0.688967		-7.4	20	
1-Methylnaphthalene	A	50.00	45.58	0.5872691	0.5353465		-8.8	20	
2-Methylnaphthalene	A	50.00	47.44	0.5974192	0.5668304		-5.1	20	
2-Methylphenol	A	50.00	49.27	1.208635	1.190894		-1.5	20	
3+4-Methylphenol	A	50.00	46.79	1.268409	1.186965		-6.4	20	
4-Nitroaniline	A	50.00	51.20	0.3272887	0.3351133		2.4	20	
3-Nitroaniline	A	50.00	49.82	0.3230815	0.3219359		-0.4	20	
2-Nitroaniline	A	50.00	59.08	0.3700237	0.4372477		18.2	20	
Nitrobenzene	A	50.00	47.87	0.4107927	0.3933142		-4.3	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12404	Injection Date:	05/02/11
Lab Sample ID:	1E12404-CCV1	Injection Time:	14:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	49.03	0.2721678	0.2669023	0.05	-1.9	20
2-Nitrophenol	A	50.00	47.94	0.1941449	0.1861418		-4.1	20
N-Nitrosodiphenylamine	A	50.00	48.71	0.6728889	0.6555877		-2.6	20
N-Nitroso-di-n-propylamine	A	50.00	49.57	1.033966	1.02502	0.05	-0.9	20
Pentachlorophenol	A	50.00	57.65	0.1623094	0.1871345		15.3	20
Phenanthrene	A	50.00	48.87	1.075866	1.051657		-2.3	20
Phenol	A	50.00	48.24	1.687698	1.628465		-3.5	20
Pyrene	A	50.00	49.89	1.163766	1.161155		-0.2	20
2,4,6-Trichlorophenol	A	50.00	49.19	0.382004	0.3758343		-1.6	20
2,4,5-Trichlorophenol	A	50.00	49.25	0.4142645	0.40802		-1.5	20
2-Fluorobiphenyl	A	50.00	49.72	1.265417	1.258337		-0.6	20
2-Fluorophenol	A	100.0	107.4	1.142171	1.226867		7.4	20
Nitrobenzene-d5	A	50.00	49.76	0.4075494	0.4055583		-0.5	20
Phenol-d6	A	100.0	101.1	1.572986	1.59077		1.1	20
Terphenyl-d14	A	50.00	49.06	0.7462196	0.7322661		-1.9	20
2,4,6-Tribromophenol	A	100.0	102.4	0.109869	0.1124781		2.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12603	Injection Date:	05/05/11
Lab Sample ID:	1E12603-CCV1	Injection Time:	16:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.37	1.110356	1.074248		-3.3	20
Acenaphthylene	A	50.00	48.52	1.725208	1.674171		-3.0	20
Anthracene	A	50.00	47.99	1.092671	1.048717		-4.0	20
Benzo(a)anthracene	A	50.00	50.37	1.119297	1.127496		0.7	20
Benzo(a)pyrene	A	50.00	50.61	1.045862	1.058673		1.2	20
Benzo(b)fluoranthene	A	50.00	55.29	1.093698	1.209348		10.6	20
Benzo(g,h,i)perylene	A	50.00	50.08	1.033139	1.034842		0.2	20
Benzoic acid	A	50.00	43.44	0.2679395	0.2328081		-13.1	20
Benzo(k)fluoranthene	A	50.00	46.88	1.107729	1.038629		-6.2	20
4-Bromophenyl-phenylether	A	50.00	49.29	0.2284778	0.225221		-1.4	20
Butylbenzylphthalate	A	50.00	50.91	0.5129818	0.5223259		1.8	20
Carbazole	A	50.00	48.65	1.044381	1.016163		-2.7	20
4-Chloro-3-methylphenol	A	50.00	50.73	0.3113523	0.3158747		1.5	20
4-Chloroaniline	A	50.00	49.21	0.4225325	0.4158351		-1.6	20
Bis(2-chloroethoxy)methane	A	50.00	48.85	0.4269873	0.4171883		-2.3	20
Bis(2-chloroethyl)ether	A	50.00	48.64	1.297842	1.262466		-2.7	20
2,2'-Oxybis-1-chloropropane	A	50.00	47.81	1.947114	1.862021		-4.4	20
2-Chloronaphthalene	A	50.00	48.30	1.087766	1.050782		-3.4	20
2-Chlorophenol	A	50.00	49.21	1.315004	1.294251		-1.6	20
4-Chlorophenyl phenyl ether	A	50.00	49.70	0.6233489	0.6195472		-0.6	20
Chrysene	A	50.00	48.92	1.047865	1.02516		-2.2	20
Dibenz(a,h)anthracene	A	50.00	51.55	1.004478	1.035555		3.1	20
Dibenzofuran	A	50.00	48.09	1.535116	1.47637		-3.8	20
Di-n-butylphthalate	A	50.00	48.18	1.182012	1.138913		-3.6	20
2,4-Dichlorophenol	A	50.00	50.30	0.3046728	0.3064897		0.6	20
Diethylphthalate	A	50.00	48.74	1.194731	1.164687		-2.5	20
2,4-Dimethylphenol	A	50.00	50.16	0.3636609	0.3648451		0.3	20
Dimethyl phthalate	A	50.00	48.75	1.244441	1.213247		-2.5	20
4,6-Dinitro-2-methylphenol	A	50.00	51.71	0.1454148	0.1503881		3.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12603	Injection Date:	05/05/11
Lab Sample ID:	1E12603-CCV1	Injection Time:	16:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	A	50.00	51.79	0.1854397	0.1920877	0.05	3.6	20
2,4-Dinitrotoluene	A	50.00	49.51	0.3929838	0.3891577		-1.0	20
2,6-Dinitrotoluene	A	50.00	49.12	0.2991862	0.2939419		-1.8	20
Di-n-octylphthalate	A	50.00	53.10	1.204345	1.278922		6.2	20
1,2-Diphenylhydrazine	A	50.00	48.24	0.8507103	0.8208112		-3.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	50.24	0.6793074	0.6825859		0.5	20
Fluoranthene	A	50.00	48.78	1.233837	1.20375		-2.4	20
Fluorene	A	50.00	49.27	1.337519	1.318065		-1.5	20
Hexachlorobenzene	A	50.00	50.12	0.244362	0.2449577		0.2	20
Hexachlorobutadiene	A	50.00	50.29	0.1868569	0.1879487		0.6	20
Hexachlorocyclopentadiene	A	50.00	50.83	0.374975	0.381228	0.05	1.7	20
Hexachloroethane	A	50.00	49.55	0.5464632	0.5415303		-0.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.27	1.038008	1.105977		6.5	20
Isophorone	A	50.00	49.60	0.7442763	0.7383731		-0.8	20
1-Methylnaphthalene	A	50.00	48.80	0.5872691	0.5732171		-2.4	20
2-Methylnaphthalene	A	50.00	48.48	0.5974192	0.5792174		-3.0	20
2-Methylphenol	A	50.00	48.74	1.208635	1.178214		-2.5	20
3+4-Methylphenol	A	50.00	48.52	1.268409	1.230887		-3.0	20
4-Nitroaniline	A	50.00	49.02	0.3272887	0.3209034		-2.0	20
3-Nitroaniline	A	50.00	48.36	0.3230815	0.3124599		-3.3	20
2-Nitroaniline	A	50.00	50.22	0.3700237	0.3716296		0.4	20
Nitrobenzene	A	50.00	49.53	0.4107927	0.4069353		-0.9	20
4-Nitrophenol	A	50.00	47.45	0.2721678	0.2583118	0.05	-5.1	20
2-Nitrophenol	A	50.00	50.97	0.1941449	0.1979093		1.9	20
N-Nitrosodiphenylamine	A	50.00	48.87	0.6728889	0.6577341		-2.3	20
N-Nitroso-di-n-propylamine	A	50.00	48.55	1.033966	1.003959	0.05	-2.9	20
Pentachlorophenol	A	50.00	45.14	0.1623094	0.1465481		-9.7	20
Phenanthrene	A	50.00	48.11	1.075866	1.035256		-3.8	20
Phenol	A	50.00	49.88	1.687698	1.683848		-0.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12603	Injection Date:	05/05/11
Lab Sample ID:	1E12603-CCV1	Injection Time:	16:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyrene	A	50.00	48.68	1.163766	1.133073		-2.6	20
2,4,6-Trichlorophenol	A	50.00	50.09	0.382004	0.3826828		0.2	20
2,4,5-Trichlorophenol	A	50.00	48.95	0.4142645	0.405577		-2.1	20
2-Fluorobiphenyl	A	50.00	48.67	1.265417	1.231854		-2.7	20
2-Fluorophenol	A	100.0	98.17	1.142171	1.121239		-1.8	20
Nitrobenzene-d5	A	50.00	49.98	0.4075494	0.4074175		-0.03	20
Phenol-d6	A	100.0	97.62	1.572986	1.535578		-2.4	20
Terphenyl-d14	A	50.00	49.75	0.7462196	0.7424491		-0.5	20
2,4,6-Tribromophenol	A	100.0	102.2	0.109869	0.1123152		2.2	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12603	Injection Date:	05/05/11
Lab Sample ID:	1E12603-CCV2	Injection Time:	16:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	43.89	1.801986	1.581662		-12.2	20
Atrazine	A	50.00	43.82	0.2344682	0.2054815		-12.4	20
Benzaldehyde	A	50.00	47.21	1.010105	0.953831		-5.6	20
Benzidine	A	50.00	62.64	0.641297	0.8033696		25.3	20 *
1,1-Biphenyl	A	50.00	43.09	1.444453	1.244856		-13.8	20
Caprolactam	A	50.00	41.28	0.1128421	9.315951E-02		-17.4	20
3,3'-Dichlorobenzidine	A	50.00	53.88	0.4067228	0.4382659		7.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1E12801	Injection Date:	05/07/11
Lab Sample ID:	1E12801-CCV1	Injection Time:	18:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	47.27	0.3840471	0.3630703		-5.5	20
Acenaphthene	A	50.00	49.51	1.082656	1.072016		-1.0	20
Acenaphthylene	A	50.00	49.82	1.744325	1.738142		-0.4	20
Acetophenone	A	50.00	49.39	1.555244	1.536234		-1.2	20
Anthracene	A	50.00	51.55	1.056507	1.089354		3.1	20
Atrazine	A	50.00	61.46	0.2049826	0.2519707		22.9	20 *
Benzaldehyde	A	50.00	50.12	1.012551	1.014899		0.2	20
Benzidine	A	50.00	65.83	0.6314527	0.8313469		31.7	20 *
Benzo(a)anthracene	A	50.00	50.11	1.138713	1.141248		0.2	20
Benzo(a)pyrene	A	50.00	52.66	1.044021	1.09958		5.3	20
Benzo(b)fluoranthene	A	50.00	49.98	1.099993	1.099448		-0.05	20
Benzo(g,h,i)perylene	A	50.00	58.24	0.758931	0.8840572		16.5	20
Benzoic acid	L	50.00	48.11	0.2348828	0.2580085		-3.8	20
Benzo(k)fluoranthene	A	50.00	54.57	1.214732	1.325789		9.1	20
1,1-Biphenyl	A	50.00	42.33	1.44264	1.221383		-15.3	20
4-Bromophenyl-phenylether	A	50.00	51.54	0.2302946	0.2374093		3.1	20
Butylbenzylphthalate	A	50.00	56.82	0.7695074	0.8743925		13.6	20
Caprolactam	A	50.00	50.10	0.1265101	0.1267591		0.2	20
Carbazole	A	50.00	51.41	0.9188467	0.9447609		2.8	20
4-Chloro-3-methylphenol	A	50.00	52.74	0.2827335	0.2982467		5.5	20
4-Chloroaniline	A	50.00	41.32	0.4407449	0.3642266		-17.4	20
Bis(2-chloroethoxy)methane	A	50.00	47.98	0.4591519	0.4405901		-4.0	20
Bis(2-chloroethyl)ether	A	50.00	44.07	1.34682	1.187115		-11.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	39.75	1.935852	1.539017		-20.5	20 *
2-Chloronaphthalene	A	50.00	79.46	1.140238	1.812088		58.9	20 *
2-Chlorophenol	A	50.00	54.55	1.301605	1.420149		9.1	20
4-Chlorophenyl phenyl ether	A	50.00	54.07	0.5334126	0.5768118		8.1	20
Chrysene	A	50.00	54.29	1.122748	1.21911		8.6	20
Dibenz(a,h)anthracene	A	50.00	50.92	0.7664032	0.7804601		1.8	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1E12801	Injection Date:	05/07/11
Lab Sample ID:	1E12801-CCV1	Injection Time:	18:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.00	54.81	1.497787	1.642003		9.6	20
Di-n-butylphthalate	A	50.00	48.50	1.375428	1.334211		-3.0	20
2,4-Dichlorophenol	A	50.00	52.79	0.3178164	0.3355364		5.6	20
Diethylphthalate	L	50.00	56.10	1.347533	1.347305		12.2	20
2,4-Dimethylphenol	A	50.00	54.30	0.3417719	0.3711888		8.6	20
Dimethyl phthalate	A	50.00	45.85	1.321588	1.211846		-8.3	20
4,6-Dinitro-2-methylphenol	L	50.00	69.61	0.1179191	0.1993295		39.2	20 *
2,4-Dinitrophenol	L	50.00	77.33	0.1369907	0.2635901	0.05	54.7	20 *
2,4-Dinitrotoluene	A	50.00	61.04	0.373936	0.4565072		22.1	20 *
2,6-Dinitrotoluene	A	50.00	49.15	0.3483244	0.3424148		-1.7	20
Di-n-octylphthalate	A	50.00	54.32	1.792929	1.947797		8.6	20
1,2-Diphenylhydrazine	A	50.00	41.34	0.8347356	0.6902206		-17.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	53.81	1.025088	1.103291		7.6	20
Fluoranthene	A	50.00	50.67	1.072845	1.087209		1.3	20
Fluorene	A	50.00	50.04	1.147043	1.147958		0.08	20
Hexachlorobenzene	A	50.00	55.56	0.2598125	0.2887261		11.1	20
Hexachlorobutadiene	A	50.00	58.37	0.1763327	0.2058645		16.7	20
Hexachlorocyclopentadiene	A	50.00	61.14	0.350099	0.4280972	0.05	22.3	20 *
Hexachloroethane	A	50.00	49.15	0.5725119	0.5628334		-1.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	39.75	0.9228439	0.7337221		-20.5	20 *
Isophorone	A	50.00	42.17	0.7715062	0.6506903		-15.7	20
1-Methylnaphthalene	A	50.00	50.67	0.5079573	0.5147668		1.3	20
2-Methylnaphthalene	A	50.00	51.04	0.4934064	0.503633		2.1	20
2-Methylphenol	A	50.00	49.69	1.135332	1.128215		-0.6	20
3+4-Methylphenol	A	50.00	42.22	1.186012	1.001575		-15.6	20
4-Nitroaniline	A	50.00	75.34	0.2309184	0.3479659		50.7	20 *
3-Nitroaniline	A	50.00	50.89	0.3482787	0.3544697		1.8	20
2-Nitroaniline	A	50.00	56.85	0.3251388	0.3696994		13.7	20
Nitrobenzene	A	50.00	46.89	0.3585356	0.3362683		-6.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1E12801	Injection Date:	05/07/11
Lab Sample ID:	1E12801-CCV1	Injection Time:	18:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	52.16	0.1977617	0.2062883	0.05	4.3	20
2-Nitrophenol	A	50.00	60.43	0.2241114	0.2708406		20.9	20 *
N-Nitrosodiphenylamine	A	50.00	45.84	0.6599038	0.6049623		-8.3	20
N-Nitroso-di-n-propylamine	A	50.00	46.93	0.8341912	0.7829965	0.05	-6.1	20
Pentachlorophenol	L	50.00	62.24	0.1614679	0.2218937		24.5	20 *
Phenanthrene	A	50.00	46.68	1.057442	0.9872609		-6.6	20
Phenol	A	50.00	49.40	1.614787	1.595522		-1.2	20
Pyrene	A	50.00	64.71	1.298906	1.681083		29.4	20 *
2,4,6-Trichlorophenol	A	50.00	59.14	0.4009275	0.4741951		18.3	20
2,4,5-Trichlorophenol	A	50.00	64.29	0.4318641	0.5553035		28.6	20 *
2-Fluorobiphenyl	A	50.00	55.89	1.2999	1.452911		11.8	20
2-Fluorophenol	A	100.0	118.1	1.224809	1.446693		18.1	20
Nitrobenzene-d5	A	50.00	46.94	0.3691845	0.346561		-6.1	20
Phenol-d6	A	100.0	88.78	1.556882	1.382245		-11.2	20
Terphenyl-d14	A	50.00	69.34	0.812066	1.126139		38.7	20 *
2,4,6-Tribromophenol	A	100.0	119.6	0.1449031	0.1733065		19.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1E13313	Injection Date:	05/12/11
Lab Sample ID:	1E13313-CCV1	Injection Time:	18:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	44.33	0.3840471	0.3404898		-11.3	20
Acenaphthene	A	50.00	46.99	1.082656	1.017503		-6.0	20
Acenaphthylene	A	50.00	54.07	1.744325	1.886375		8.1	20
Acetophenone	A	50.00	42.59	1.555244	1.324684		-14.8	20
Anthracene	A	50.00	49.70	1.056507	1.050181		-0.6	20
Atrazine	A	50.00	49.25	0.2049826	0.201896		-1.5	20
Benzaldehyde	A	50.00	47.37	1.012551	0.9592201		-5.3	20
Benzidine	A	50.00	74.13	0.6314527	0.9361318		48.3	20 *
Benzo(a)anthracene	A	50.00	48.61	1.138713	1.106955		-2.8	20
Benzo(a)pyrene	A	50.00	48.71	1.044021	1.017029		-2.6	20
Benzo(b)fluoranthene	A	50.00	58.26	1.099993	1.281661		16.5	20
Benzo(g,h,i)perylene	A	50.00	43.30	0.758931	0.6571657		-13.4	20
Benzoic acid	L	50.00	47.39	0.2348828	0.2537911		-5.2	20
Benzo(k)fluoranthene	A	50.00	57.41	1.214732	1.394696		14.8	20
1,1-Biphenyl	A	50.00	47.82	1.44264	1.379857		-4.4	20
4-Bromophenyl-phenylether	A	50.00	48.73	0.2302946	0.2244408		-2.5	20
Butylbenzylphthalate	A	50.00	48.81	0.7695074	0.7512545		-2.4	20
Caprolactam	A	50.00	49.00	0.1265101	0.1239854		-2.0	20
Carbazole	A	50.00	51.18	0.9188467	0.9404608		2.4	20
4-Chloro-3-methylphenol	A	50.00	52.59	0.2827335	0.2974027		5.2	20
4-Chloroaniline	A	50.00	50.51	0.4407449	0.4452632		1.0	20
Bis(2-chloroethoxy)methane	A	50.00	51.22	0.4591519	0.4703217		2.4	20
Bis(2-chloroethyl)ether	A	50.00	49.55	1.34682	1.334825		-0.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	54.51	1.935852	2.110281		9.0	20
2-Chloronaphthalene	A	50.00	64.74	1.140238	1.476458		29.5	20 *
2-Chlorophenol	A	50.00	54.36	1.301605	1.415213		8.7	20
4-Chlorophenyl phenyl ether	A	50.00	56.63	0.5334126	0.6041555		13.3	20
Chrysene	A	50.00	51.43	1.122748	1.154888		2.9	20
Dibenz(a,h)anthracene	A	50.00	42.38	0.7664032	0.6495819		-15.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1E13313	Injection Date:	05/12/11
Lab Sample ID:	1E13313-CCV1	Injection Time:	18:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.00	52.09	1.497787	1.560337		4.2	20
Di-n-butylphthalate	A	50.00	44.68	1.375428	1.229198		-10.6	20
2,4-Dichlorophenol	A	50.00	50.86	0.3178164	0.323265		1.7	20
Diethylphthalate	L	50.00	57.92	1.347533	1.38725		15.8	20
2,4-Dimethylphenol	A	50.00	51.04	0.3417719	0.3488677		2.1	20
Dimethyl phthalate	A	50.00	51.35	1.321588	1.357247		2.7	20
4,6-Dinitro-2-methylphenol	L	50.00	58.61	0.1179191	0.1656615		17.2	20
2,4-Dinitrophenol	L	50.00	67.23	0.1369907	0.2241084	0.05	34.5	20 *
2,4-Dinitrotoluene	A	50.00	59.04	0.373936	0.4415513		18.1	20
2,6-Dinitrotoluene	A	50.00	54.29	0.3483244	0.3782078		8.6	20
Di-n-octylphthalate	A	50.00	50.30	1.792929	1.80373		0.6	20
1,2-Diphenylhydrazine	A	50.00	47.58	0.8347356	0.7942801		-4.8	20
Bis(2-ethylhexyl)phthalate	A	50.00	42.48	1.025088	0.8708414		-15.0	20
Fluoranthene	A	50.00	48.14	1.072845	1.032942		-3.7	20
Fluorene	A	50.00	53.60	1.147043	1.229654		7.2	20
Hexachlorobenzene	A	50.00	54.44	0.2598125	0.2829064		8.9	20
Hexachlorobutadiene	A	50.00	55.93	0.1763327	0.1972628		11.9	20
Hexachlorocyclopentadiene	A	50.00	63.08	0.350099	0.4416705	0.05	26.2	20 *
Hexachloroethane	A	50.00	54.37	0.5725119	0.6225939		8.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	44.88	0.9228439	0.8283573		-10.2	20
Isophorone	A	50.00	46.81	0.7715062	0.7223521		-6.4	20
1-Methylnaphthalene	A	50.00	48.30	0.5079573	0.4906834		-3.4	20
2-Methylnaphthalene	A	50.00	52.21	0.4934064	0.5151662		4.4	20
2-Methylphenol	A	50.00	53.97	1.135332	1.225582		7.9	20
3+4-Methylphenol	A	50.00	49.26	1.186012	1.168352		-1.5	20
4-Nitroaniline	A	50.00	74.55	0.2309184	0.344321		49.1	20 *
3-Nitroaniline	A	50.00	54.74	0.3482787	0.3813076		9.5	20
2-Nitroaniline	A	50.00	64.71	0.3251388	0.4208216		29.4	20 *
Nitrobenzene	A	50.00	49.63	0.3585356	0.3559142		-0.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1E13313	Injection Date:	05/12/11
Lab Sample ID:	1E13313-CCV1	Injection Time:	18:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	60.94	0.1977617	0.2410416	0.05	21.9	20 *
2-Nitrophenol	A	50.00	53.32	0.2241114	0.2389849		6.6	20
N-Nitrosodiphenylamine	A	50.00	45.05	0.6599038	0.5945651		-9.9	20
N-Nitroso-di-n-propylamine	A	50.00	47.79	0.8341912	0.7972885	0.05	-4.4	20
Pentachlorophenol	L	50.00	58.17	0.1614679	0.2066487		16.3	20
Phenanthrene	A	50.00	47.64	1.057442	1.007429		-4.7	20
Phenol	A	50.00	50.31	1.614787	1.624829		0.6	20
Pyrene	A	50.00	61.81	1.298906	1.605645		23.6	20 *
2,4,6-Trichlorophenol	A	50.00	57.95	0.4009275	0.4646947		15.9	20
2,4,5-Trichlorophenol	A	50.00	55.82	0.4318641	0.4821669		11.6	20
2-Fluorobiphenyl	A	50.00	51.58	1.2999	1.340926		3.2	20
2-Fluorophenol	A	100.0	108.4	1.224809	1.327958		8.4	20
Nitrobenzene-d5	A	50.00	47.24	0.3691845	0.3487766		-5.5	20
Phenol-d6	A	100.0	101.5	1.556882	1.580959		1.5	20
Terphenyl-d14	A	50.00	61.09	0.812066	0.9922164		22.2	20 *
2,4,6-Tribromophenol	A	100.0	115.9	0.1449031	0.168005		15.9	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_010

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

Matrix: Laboratory ID: 1D28006-BLK1 File ID: D28006B1.D

Sampled: Prepared: Analyzed: 05/02/11 15:35

Solids: Preparation: EXT_3510 Dilution:

Batch: 1D28006 Sequence: 1E12404 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	Q, U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	Q, U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	Q, U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	X, U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	Q, U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	Q, U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	Q, U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D28006-BLK1 File ID: D28006B1.D

Sampled: Prepared: Analyzed: 05/02/11 15:35

Solids: Preparation: EXT_3510 Dilution:

Batch: 1D28006 Sequence: 1E12404 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	Q, U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.24	84.5	50 - 110	
2-Fluorophenol	100.0	38.18	38.2	20 - 110	
Nitrobenzene-d5	50.00	43.05	86.1	40 - 110	
Phenol-d6	100.0	21.57	21.6	10 - 110	
Terphenyl-d14	50.00	53.83	108	50 - 135	
2,4,6-Tribromophenol	100.0	88.02	88.0	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1D28006-BS1 File ID: D28006L1.D

Sampled: Prepared: Analyzed: 05/02/11 16:09

Solids: Preparation: EXT_3510 Dilution:

Batch: 1D28006 Sequence: 1E12404 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	44.95	1.25	2.50	5.00	
208-96-8	Acenaphthylene	43.87	1.25	2.50	5.00	
98-86-2	Acetophenone	42.22	1.25	2.50	5.00	
120-12-7	Anthracene	55.61	1.25	2.50	5.00	
1912-24-9	Atrazine	46.65	1.25	2.50	5.00	
100-52-7	Benzaldehyde	43.40	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	57.97	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	56.41	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	57.73	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	57.61	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	59.00	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	44.26	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	55.11	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	65.27	1.25	2.50	5.00	
105-60-2	Caprolactam	5.837	1.25	2.50	5.00	
86-74-8	Carbazole	56.05	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	41.72	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	41.29	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	55.28	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	52.23	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	50.52	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	41.23	1.25	2.50	5.00	X
95-57-8	2-Chlorophenol	37.22	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	49.04	1.25	2.50	5.00	
218-01-9	Chrysene	58.11	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	58.19	1.25	2.50	5.00	
132-64-9	Dibenzofuran	49.88	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	61.92	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	47.14	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	42.80	1.25	2.50	5.00	
84-66-2	Diethylphthalate	61.75	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	37.79	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	60.01	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	54.52	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	44.12	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	57.11	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	55.31	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	68.01	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1D28006-BS1
File ID: D28006L1.D
Sampled:
Prepared:
Analyzed: 05/02/11 16:09
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1D28006
Sequence: 1E12404
Calibration: 1122001
Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	51.61	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	65.24	1.25	2.50	5.00	
206-44-0	Fluoranthene	56.25	1.25	2.50	5.00	
86-73-7	Fluorene	49.66	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	54.80	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	9.939	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	11.56	1.25	2.50	5.00	
67-72-1	Hexachloroethane	10.40	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	55.73	1.25	2.50	5.00	
78-59-1	Isophorone	50.44	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	32.70	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	34.97	1.25	2.50	5.00	
95-48-7	2-Methylphenol	31.90	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	28.55	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	51.33	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	45.50	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	55.18	5.00	10.0	20.0	
98-95-3	Nitrobenzene	47.75	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	13.02	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	44.92	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	44.99	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	53.83	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	53.85	5.00	10.0	20.0	
85-01-8	Phenanthrene	55.44	1.25	2.50	5.00	
108-95-2	Phenol	13.36	1.25	2.50	5.00	
129-00-0	Pyrene	57.22	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	50.30	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	49.94	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.55	91.1	50 - 110	
2-Fluorophenol	100.0	41.95	42.0	20 - 110	
Nitrobenzene-d5	50.00	44.02	88.0	40 - 110	
Phenol-d6	100.0	23.74	23.7	10 - 110	
Terphenyl-d14	50.00	52.30	105	50 - 135	
2,4,6-Tribromophenol	100.0	93.79	93.8	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02019-BLK2 File ID: E02019B2.D

Sampled: Prepared: Analyzed: 05/12/11 19:50

Solids: Preparation: EXT_3510 Dilution:

Batch: 1E02019 Sequence: 1E13313 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	Q, U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	X, U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02019-BLK2 File ID: E02019B2.D

Sampled: Prepared: Analyzed: 05/12/11 19:50

Solids: Preparation: EXT_3510 Dilution:

Batch: 1E02019 Sequence: 1E13313 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	X, U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	X, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	Q, U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	X, U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.49	77.0	50 - 110	
2-Fluorophenol	100.0	44.54	44.5	20 - 110	
Nitrobenzene-d5	50.00	43.30	86.6	40 - 110	
Phenol-d6	100.0	23.75	23.8	10 - 110	
Terphenyl-d14	50.00	49.51	99.0	50 - 135	X
2,4,6-Tribromophenol	100.0	89.20	89.2	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_010

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

Matrix: | Laboratory ID: 1E02019-BS2 | File ID: E02019L3.D

Sampled: | Prepared: | Analyzed: 05/12/11 20:48

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1E02019 | Sequence: 1E13313 | Calibration: 1032006 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	33.66	1.25	2.50	5.00	
83-32-9	Acenaphthene	29.18	1.25	2.50	5.00	
208-96-8	Acenaphthylene	24.44	1.25	2.50	5.00	
98-86-2	Acetophenone	29.59	1.25	2.50	5.00	
120-12-7	Anthracene	34.28	1.25	2.50	5.00	
1912-24-9	Atrazine	45.19	1.25	2.50	5.00	
100-52-7	Benzaldehyde	32.07	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	38.98	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	33.28	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	38.32	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	42.76	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	42.45	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	32.50	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	37.87	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	40.34	1.25	2.50	5.00	
105-60-2	Caprolactam	7.119	1.25	2.50	5.00	
86-74-8	Carbazole	41.26	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	30.88	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	28.42	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	38.78	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	32.77	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.21	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	27.26	1.25	2.50	5.00	X
95-57-8	2-Chlorophenol	27.98	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	40.78	1.25	2.50	5.00	
218-01-9	Chrysene	37.99	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	40.22	1.25	2.50	5.00	
132-64-9	Dibenzofuran	34.12	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	39.77	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	29.34	1.25	2.50	5.00	
84-66-2	Diethylphthalate	44.72	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	26.40	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	39.66	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	50.87	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	48.47	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	49.77	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	35.64	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	41.88	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02019-BS2 File ID: E02019L3.D

Sampled: Prepared: Analyzed: 05/12/11 20:48

Solids: Preparation: EXT_3510 Dilution:

Batch: 1E02019 Sequence: 1E13313 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	35.74	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	37.26	1.25	2.50	5.00	
206-44-0	Fluoranthene	35.52	1.25	2.50	5.00	
86-73-7	Fluorene	37.71	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	41.82	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	11.50	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	5.732	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	12.08	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	41.18	1.25	2.50	5.00	
78-59-1	Isophorone	25.98	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	25.28	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	26.35	1.25	2.50	5.00	
95-48-7	2-Methylphenol	23.58	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	19.88	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	54.36	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	34.97	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	37.14	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	35.15	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	15.72	5.00	10.0	20.0	X, J
88-75-5	2-Nitrophenol	32.24	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	22.24	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	30.12	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	45.28	5.00	10.0	20.0	
85-01-8	Phenanthrene	38.24	1.25	2.50	5.00	
108-95-2	Phenol	10.08	1.25	2.50	5.00	
129-00-0	Pyrene	45.90	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	35.47	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	35.67	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	32.33	64.7	50 - 110	
2-Fluorophenol	100.0	35.69	35.7	20 - 110	
Nitrobenzene-d5	50.00	35.61	71.2	40 - 110	
Phenol-d6	100.0	21.09	21.1	10 - 110	
Terphenyl-d14	50.00	46.96	93.9	50 - 135	X
2,4,6-Tribromophenol	100.0	87.07	87.1	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02019-BSD2 File ID: E02019L4.D

Sampled: Prepared: Analyzed: 05/12/11 21:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 1E02019 Sequence: 1E13313 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	27.78	1.25	2.50	5.00	
83-32-9	Acenaphthene	27.73	1.25	2.50	5.00	
208-96-8	Acenaphthylene	24.60	1.25	2.50	5.00	
98-86-2	Acetophenone	30.22	1.25	2.50	5.00	
120-12-7	Anthracene	35.79	1.25	2.50	5.00	
1912-24-9	Atrazine	40.33	1.25	2.50	5.00	
100-52-7	Benzaldehyde	32.03	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	37.46	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	34.11	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	40.17	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	41.05	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	40.15	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	28.16	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	38.22	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	41.28	1.25	2.50	5.00	
105-60-2	Caprolactam	5.690	1.25	2.50	5.00	
86-74-8	Carbazole	40.17	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	27.36	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	25.93	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	31.87	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	34.20	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.32	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	27.42	1.25	2.50	5.00	X
95-57-8	2-Chlorophenol	28.02	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	37.96	1.25	2.50	5.00	
218-01-9	Chrysene	37.14	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	39.41	1.25	2.50	5.00	
132-64-9	Dibenzofuran	32.42	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	39.02	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	24.94	1.25	2.50	5.00	
84-66-2	Diethylphthalate	41.18	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	22.07	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	36.70	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	49.51	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	45.45	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	46.93	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	36.04	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	44.68	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Matrix: Laboratory ID: 1E02019-BSD2 File ID: E02019L4.D

Sampled: Prepared: Analyzed: 05/12/11 21:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 1E02019 Sequence: 1E13313 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	38.02	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	37.21	1.25	2.50	5.00	
206-44-0	Fluoranthene	35.30	1.25	2.50	5.00	
86-73-7	Fluorene	35.39	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	41.92	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	9.990	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	6.231	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	10.40	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	40.29	1.25	2.50	5.00	
78-59-1	Isophorone	22.11	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	23.89	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	26.83	1.25	2.50	5.00	
95-48-7	2-Methylphenol	22.68	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	19.19	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	50.21	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	33.23	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.56	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	32.99	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	13.75	5.00	10.0	20.0	X, J
88-75-5	2-Nitrophenol	28.57	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	21.72	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	30.99	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	43.15	5.00	10.0	20.0	
85-01-8	Phenanthrene	36.58	1.25	2.50	5.00	
108-95-2	Phenol	9.883	1.25	2.50	5.00	
129-00-0	Pyrene	47.64	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	32.14	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	31.02	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	29.10	58.2	50 - 110	
2-Fluorophenol	100.0	34.08	34.1	20 - 110	
Nitrobenzene-d5	50.00	32.01	64.0	40 - 110	
Phenol-d6	100.0	19.99	20.0	10 - 110	
Terphenyl-d14	50.00	44.60	89.2	50 - 135	X
2,4,6-Tribromophenol	100.0	86.33	86.3	40 - 125	

Data for MODSW8015B (GRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12909	Instrument:	GL-GCVOA2
Calibration:	1129002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E12909-CAL1	003F0301.D	05/06/11 13:31
Cal Standard	1E12909-CAL2	004F0401.D	05/06/11 14:07
Cal Standard	1E12909-CAL3	005F0501.D	05/06/11 14:43
Cal Standard	1E12909-CAL4	006F0601.D	05/06/11 15:19
Cal Standard	1E12909-CAL5	007F0701.D	05/06/11 15:55
Cal Standard	1E12909-CAL6	008F0801.D	05/06/11 16:31
Initial Cal Check	1E12909-ICV1	009F0901.D	05/06/11 17:07

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12910	Instrument:	GL-GCVOA2
Calibration:	1129002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1E12910-CCV1	010F1001.D	05/06/11 17:41
Blank	1E05029-BLK1	011F1101.D	05/06/11 18:15
LCS	1E05029-BS1	012F1201.D	05/06/11 18:49
LCS Dup	1E05029-BSD1	013F1301.D	05/06/11 19:23
GW0061	1104286-01	014F1401.D	05/06/11 19:57
GW0062	1104286-03	015F1501.D	05/06/11 20:31
GW0063	1104286-05	016F1601.D	05/06/11 21:05
GW0058	1104289-01	017F1701.D	05/06/11 21:38
Calibration Check	1E12910-CCV2	025F2501.D	05/07/11 02:10
GW0067	1104307-01	037F3701.D	05/07/11 08:59
Calibration Check	1E12910-CCV3	038F3801.D	05/07/11 09:33

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13208	Instrument:	GL-GCVOA2
Calibration:	1129002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1E13208-CCV1	003F0301.D	05/09/11 19:50
Blank	1E05030-BLK1	004F0401.D	05/09/11 20:25
LCS	1E05030-BS1	005F0501.D	05/09/11 20:58
LCS Dup	1E05030-BSD1	006F0601.D	05/09/11 21:32
GW0068	1104307-03	011F1101.D	05/10/11 00:22
GW0043	1105015-01	012F1201.D	05/10/11 00:57
Calibration Check	1E13208-CCV2	017F1701.D	05/10/11 03:47

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	014F1401.D
Sampled:	04/26/11 11:24	Prepared:	05/06/11 11:52	Analyzed:	05/06/11 19:57
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05029 Sequence: 1E12910 Calibration: 1129002 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	0.04448	89.0	50 - 150	

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	015F1501.D
Sampled:	04/26/11 14:54	Prepared:	05/06/11 11:52	Analyzed:	05/06/11 20:31
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05029 Sequence: 1E12910 Calibration: 1129002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.176	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04475	89.5	50 - 150	

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	016F1601.D
Sampled:	04/26/11 14:54	Prepared:	05/06/11 11:52	Analyzed:	05/06/11 21:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05029 Sequence: 1E12910 Calibration: 1129002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.156	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04566	91.3	50 - 150	

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	017F1701.D
Sampled:	04/27/11 12:12	Prepared:	05/06/11 11:52	Analyzed:	05/06/11 21:38
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05029 Sequence: 1E12910 Calibration: 1129002 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	0.04535	90.7	50 - 150	

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	037F3701.D
Sampled:	04/28/11 11:25	Prepared:	05/06/11 11:52	Analyzed:	05/07/11 08:59
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05029 Sequence: 1E12910 Calibration: 1129002 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	0.04623	92.5	50 - 150	

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	011F1101.D
Sampled:	04/28/11 14:40	Prepared:	05/09/11 11:54	Analyzed:	05/10/11 00:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05030 Sequence: 1E13208 Calibration: 1129002 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	0.04496	89.9	50 - 150	

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	012F1201.D
Sampled:	04/29/11 10:58	Prepared:	05/09/11 11:54	Analyzed:	05/10/11 00:57
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1E05030 Sequence: 1E13208 Calibration: 1129002 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	0.04481	89.6	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05029	Laboratory ID:	1E05029-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	0.5563	111	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)	1.000	1.165	116	70.7 *	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05030	Laboratory ID:	1E05030-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	0.5507	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	0.5583	112	1.38	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05029 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/06/11 11:52	5.00	5.00
GW0062	1104286-03	05/06/11 11:52	5.00	5.00
GW0063	1104286-05	05/06/11 11:52	5.00	5.00
GW0058	1104289-01	05/06/11 11:52	5.00	5.00
GW0067	1104307-01	05/06/11 11:52	5.00	5.00
Blank	1E05029-BLK1	05/06/11 11:52	5.00	5.00
LCS	1E05029-BS1	05/06/11 11:52	5.00	5.00
LCS Dup	1E05029-BSD1	05/06/11 11:52	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05030 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0068	1104307-03	05/09/11 11:54	5.00	5.00
GW0043	1105015-01	05/09/11 11:54	5.00	5.00
Blank	1E05030-BLK1	05/09/11 11:54	5.00	5.00
LCS	1E05030-BS1	05/09/11 11:54	5.00	5.00
LCS Dup	1E05030-BSD1	05/09/11 11:54	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12909	Instrument:	GL-GCVOA2
Calibration:	1129002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0203	GRO Cal 0.1ppm	1E12909-CAL1	003F0301.D	05/06/11 13:31
11E0204	GRO Cal 0.2ppm	1E12909-CAL2	004F0401.D	05/06/11 14:07
11E0205	GRO Cal 0.5ppm	1E12909-CAL3	005F0501.D	05/06/11 14:43
11E0206	GRO Cal 1.0ppm	1E12909-CAL4	006F0601.D	05/06/11 15:19
11E0207	GRO Cal 2.0ppm	1E12909-CAL5	007F0701.D	05/06/11 15:55
11E0208	GRO Cal 5.0ppm	1E12909-CAL6	008F0801.D	05/06/11 16:31

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1129002	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	5/6/11_13:31	5/6/11_16:31

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	1934846	2	2010328	1	2211392	0.5	2202664	0.2	3018605	0.1	3836990
Bromofluorobenzene	0.5	1133264	0.2	1271385	0.1	1371040	0.05	1400780	0.02	1524700	0.01	1731400

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1129002	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	5/6/11 13:31	5/6/11 16:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2535804	29.40336	7.233	2.067693E-02	0.9997615		0.995	
Bromofluorobenzene	1405428	14.71084	19.5535	4.036379E-02			20	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1129002
Lab File ID:	009F0901.D	Calibration Date:	05/06/11 13:01
Sequence:	1E12909	Injection Date:	05/06/11
Lab Sample ID:	1E12909-ICV1	Injection Time:	17:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5538	2535804	2539888		10.8	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1129002
Lab File ID:	010F1001.D	Calibration Date:	05/06/11 13:01
Sequence:	1E12910	Injection Date:	05/06/11
Lab Sample ID:	1E12910-CCV1	Injection Time:	17:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5202	2535804	2412628		4.0	20
Bromofluorobenzene	A	0.05000	0.04551	1405428	1279260		-9.0	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1129002
Lab File ID:	025F2501.D	Calibration Date:	05/06/11 13:01
Sequence:	1E12910	Injection Date:	05/07/11
Lab Sample ID:	1E12910-CCV2	Injection Time:	02:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5441	2535804	2503126		8.8	20
Bromofluorobenzene	A	0.05000	0.04808	1405428	1351360		-3.8	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1129002
Lab File ID:	038F3801.D	Calibration Date:	05/06/11 13:01
Sequence:	1E12910	Injection Date:	05/07/11
Lab Sample ID:	1E12910-CCV3	Injection Time:	09:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	1.000	1.153	2535804	2405838		15.3	20
Bromofluorobenzene	A	0.05000	0.04859	1405428	1365920		-2.8	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1129002
Lab File ID:	003F0301.D	Calibration Date:	05/06/11 13:01
Sequence:	1E13208	Injection Date:	05/09/11
Lab Sample ID:	1E13208-CCV1	Injection Time:	19:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5121	2535804	2381698		2.4	20
Bromofluorobenzene	A	0.05000	0.04737	1405428	1331520		-5.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1129002
Lab File ID:	017F1701.D	Calibration Date:	05/06/11 13:01
Sequence:	1E13208	Injection Date:	05/10/11
Lab Sample ID:	1E13208-CCV2	Injection Time:	03:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5177	2535804	2403106		3.5	20
Bromofluorobenzene	A	0.05000	0.04685	1405428	1316820		-6.3	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12910	Instrument:	GL-GCVOA2
		Calibration:	1129002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12910-CCV1) ug/mL				Lab File ID: 010F1001.D		Analyzed: 05/06/11 17:41		
Bromofluorobenzene	0.05000	91.0	80 - 120	19.566	19.566	0.0000	+/-0.210	
Blank (1E05029-BLK1) mg/L				Lab File ID: 011F1101.D		Analyzed: 05/06/11 18:15		
Bromofluorobenzene	0.05000	89.3	50 - 150	19.566	19.566	0.0000	+/-0.210	
LCS (1E05029-BS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 05/06/11 18:49		
Bromofluorobenzene	0.05000	95.7	50 - 150	19.563	19.566	-0.0030	+/-0.210	
LCS Dup (1E05029-BSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 05/06/11 19:23		
Bromofluorobenzene	0.05000	97.9	50 - 150	19.566	19.566	0.0000	+/-0.210	
GW0061 (1104286-01) mg/L				Lab File ID: 014F1401.D		Analyzed: 05/06/11 19:57		
Bromofluorobenzene	0.05000	89.0	50 - 150	19.566	19.566	0.0000	+/-0.210	
GW0062 (1104286-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 05/06/11 20:31		
Bromofluorobenzene	0.05000	89.5	50 - 150	19.57	19.566	0.0040	+/-0.210	
GW0063 (1104286-05) mg/L				Lab File ID: 016F1601.D		Analyzed: 05/06/11 21:05		
Bromofluorobenzene	0.05000	91.3	50 - 150	19.57	19.566	0.0040	+/-0.210	
GW0058 (1104289-01) mg/L				Lab File ID: 017F1701.D		Analyzed: 05/06/11 21:38		
Bromofluorobenzene	0.05000	90.7	50 - 150	19.573	19.566	0.0070	+/-0.210	
Calibration Check (1E12910-CCV2) ug/mL				Lab File ID: 025F2501.D		Analyzed: 05/07/11 02:10		
Bromofluorobenzene	0.05000	96.2	80 - 120	19.57	19.566	0.0040	+/-0.210	
GW0067 (1104307-01) mg/L				Lab File ID: 037F3701.D		Analyzed: 05/07/11 08:59		
Bromofluorobenzene	0.05000	92.5	50 - 150	19.56	19.566	-0.0060	+/-0.210	
Calibration Check (1E12910-CCV3) ug/mL				Lab File ID: 038F3801.D		Analyzed: 05/07/11 09:33		
Bromofluorobenzene	0.05000	97.2	80 - 120	19.556	19.566	-0.0100	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13208	Instrument:	GL-GCVOA2
		Calibration:	1129002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E13208-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 05/09/11 19:50		
Bromofluorobenzene	0.05000	94.7	80 - 120	19.573	19.573	0.0000	+/-0.210	
Blank (1E05030-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 05/09/11 20:25		
Bromofluorobenzene	0.05000	88.3	50 - 150	19.57	19.573	-0.0030	+/-0.210	
LCS (1E05030-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 05/09/11 20:58		
Bromofluorobenzene	0.05000	96.3	50 - 150	19.57	19.573	-0.0030	+/-0.210	
LCS Dup (1E05030-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 05/09/11 21:32		
Bromofluorobenzene	0.05000	92.8	50 - 150	19.57	19.573	-0.0030	+/-0.210	
GW0068 (1104307-03) mg/L				Lab File ID: 011F1101.D		Analyzed: 05/10/11 00:22		
Bromofluorobenzene	0.05000	89.9	50 - 150	19.566	19.573	-0.0070	+/-0.210	
GW0043 (1105015-01) mg/L				Lab File ID: 012F1201.D		Analyzed: 05/10/11 00:57		
Bromofluorobenzene	0.05000	89.6	50 - 150	19.57	19.573	-0.0030	+/-0.210	
Calibration Check (1E13208-CCV2) ug/mL				Lab File ID: 017F1701.D		Analyzed: 05/10/11 03:47		
Bromofluorobenzene	0.05000	93.7	80 - 120	19.573	19.573	0.0000	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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
GW0061	04/26/11 11:24	04/27/11 09:00	05/06/11 11:52	N/A	14.00	05/06/11 19:57	10.36	14.00	
GW0062	04/26/11 14:54	04/27/11 09:00	05/06/11 11:52	N/A	14.00	05/06/11 20:31	10.23	14.00	
GW0063	04/26/11 14:54	04/27/11 09:00	05/06/11 11:52	N/A	14.00	05/06/11 21:05	10.26	14.00	
GW0058	04/27/11 12:12	04/28/11 09:00	05/06/11 11:52	N/A	14.00	05/06/11 21:38	9.43	14.00	
GW0067	04/28/11 11:25	04/29/11 09:00	05/06/11 11:52	N/A	14.00	05/07/11 08:59	8.86	14.00	
GW0068	04/28/11 14:40	04/29/11 09:00	05/09/11 11:54	N/A	14.00	05/10/11 00:22	11.36	14.00	
GW0043	04/29/11 10:58	04/30/11 09:00	05/09/11 11:54	N/A	14.00	05/10/11 00:57	10.54	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1E05029-BLK1	File ID:	011F1101.D
Sampled:		Prepared:		Analyzed:	05/06/11 18:15
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1E05029 Sequence: 1E12910 Calibration: 1129002 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	0.04463	89.3	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E05029-BS1	File ID:	012F1201.D
Sampled:		Prepared:		Analyzed:	05/06/11 18:49
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1E05029	Sequence:	1E12910	Calibration:	1129002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5563	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04787	95.7	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E05029-BSD1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	05/06/11 19:23
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1E05029	Sequence:	1E12910	Calibration:	1129002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.165	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04896	97.9	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1E05030-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	05/09/11 20:25
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1E05030 Sequence: 1E13208 Calibration: 1129002 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	0.04413	88.3	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1E05030-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	05/09/11 20:58
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1E05030 Sequence: 1E13208 Calibration: 1129002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5507	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04815	96.3	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E05030-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	05/09/11 21:32
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1E05030	Sequence:	1E13208	Calibration:	1129002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5583	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04641	92.8	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
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 GRO

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D10501	Instrument:	GL-GCFID2
Calibration:	1105001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1D10501-CAL6	003F0301.D	04/14/11 14:49
Cal Standard	1D10501-CAL5	004F0401.D	04/14/11 15:22
Cal Standard	1D10501-CAL4	005F0501.D	04/14/11 15:57
Cal Standard	1D10501-CAL3	006F0601.D	04/14/11 16:31
Cal Standard	1D10501-CAL2	007F0701.D	04/14/11 17:04
Cal Standard	1D10501-CAL1	008F0801.D	04/14/11 17:38
Initial Cal Check	1D10501-ICV1	009F0901.D	04/14/11 18:12

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12205	Instrument:	GL-GCFID2
Calibration:	1105001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1E12205-CCV1	003F0301.D	04/30/11 17:54
Blank	1D28020-BLK1	004F0401.D	04/30/11 18:28
LCS	1D28020-BS1	005F0501.D	04/30/11 19:01
LCS Dup	1D28020-BSD1	006F0601.D	04/30/11 19:35
GW0061	1104286-01	007F0701.D	04/30/11 20:09
GW0062	1104286-03	008F0801.D	04/30/11 20:43
GW0063	1104286-05	009F0901.D	04/30/11 21:16
GW0058	1104289-01	010F1001.D	04/30/11 21:50
Calibration Check	1E12205-CCV2	017F1701.D	05/01/11 01:48

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12408	Instrument:	GL-GCFID2
Calibration:	1124001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E12408-CAL6	004F0401.D	05/03/11 17:35
Cal Standard	1E12408-CAL5	005F0501.D	05/03/11 18:08
Cal Standard	1E12408-CAL4	006F0601.D	05/03/11 18:42
Cal Standard	1E12408-CAL3	007F0701.D	05/03/11 19:16
Cal Standard	1E12408-CAL2	008F0801.D	05/03/11 19:49
Cal Standard	1E12408-CAL1	009F0901.D	05/03/11 20:22
Initial Cal Check	1E12408-ICV1	010F1001.D	05/03/11 20:56

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12913	Instrument:	GL-GCFID2
Calibration:	1124001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1E12913-CCV1	003F0301.D	05/06/11 18:20
Blank	1E02016-BLK1	004F0401.D	05/06/11 18:54
LCS	1E02016-BS1	005F0501.D	05/06/11 19:27
LCS Dup	1E02016-BSD1	006F0601.D	05/06/11 20:01
GW0067	1104307-01	007F0701.D	05/06/11 20:35
GW0068	1104307-03	008F0801.D	05/06/11 21:08
GW0043	1105015-01	009F0901.D	05/06/11 21:42
Calibration Check	1E12913-CCV2	014F1401.D	05/07/11 00:29

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	007F0701.D
Sampled:	04/26/11 11:24	Prepared:	04/29/11 10:45	Analyzed:	04/30/11 20:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28020 Sequence: 1E12205 Calibration: 1105001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01516	78.8	30 - 140	

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	008F0801.D
Sampled:	04/26/11 14:54	Prepared:	04/29/11 10:45	Analyzed:	04/30/11 20:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28020 Sequence: 1E12205 Calibration: 1105001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.144	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01341	71.1	30 - 140	

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	009F0901.D
Sampled:	04/26/11 14:54	Prepared:	04/29/11 10:45	Analyzed:	04/30/11 21:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28020 Sequence: 1E12205 Calibration: 1105001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.170	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01347	71.4	30 - 140	

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	010F1001.D
Sampled:	04/27/11 12:12	Prepared:	04/29/11 10:45	Analyzed:	04/30/11 21:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1D28020 Sequence: 1E12205 Calibration: 1105001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01166	60.7	30 - 140	

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	007F0701.D
Sampled:	04/28/11 11:25	Prepared:	05/05/11 14:50	Analyzed:	05/06/11 20:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02016 Sequence: 1E12913 Calibration: 1124001 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01822	96.6	30 - 140	

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	008F0801.D
Sampled:	04/28/11 14:40	Prepared:	05/05/11 14:50	Analyzed:	05/06/11 21:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02016 Sequence: 1E12913 Calibration: 1124001 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01508	79.9	30 - 140	

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	009F0901.D
Sampled:	04/29/11 10:58	Prepared:	05/05/11 14:50	Analyzed:	05/06/11 21:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1E02016 Sequence: 1E12913 Calibration: 1124001 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01410	74.7	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1D28020	Laboratory ID:	1D28020-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	0.7719	77.2	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	0.6952	69.5	10.5	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02016	Laboratory ID:	1E02016-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	0.8864	88.6	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	0.7392	73.9	18.1	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1D28020 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	04/29/11 10:45	1,040.00	1.00
GW0062	1104286-03	04/29/11 10:45	1,060.00	1.00
GW0063	1104286-05	04/29/11 10:45	1,060.00	1.00
GW0058	1104289-01	04/29/11 10:45	1,040.00	1.00
Blank	1D28020-BLK1	04/29/11 10:45	1,000.00	1.00
LCS	1D28020-BS1	04/29/11 10:45	1,000.00	1.00
LCS Dup	1D28020-BSD1	04/29/11 10:45	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E02016 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0067	1104307-01	05/05/11 14:50	1,060.00	1.00
GW0068	1104307-03	05/05/11 14:50	1,060.00	1.00
GW0043	1105015-01	05/05/11 14:50	1,060.00	1.00
Blank	1E02016-BLK1	05/05/11 14:50	1,000.00	1.00
LCS	1E02016-BS1	05/05/11 14:50	1,000.00	1.00
LCS Dup	1E02016-BSD1	05/05/11 14:50	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D10501	Instrument:	GL-GCFID2
Calibration:	1105001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11D0042	DRO ICAL6@100ppm	1D10501-CAL6	003F0301.D	04/14/11 14:49
11D0043	DRO ICAL5@250ppm	1D10501-CAL5	004F0401.D	04/14/11 15:22
11D0044	DRO ICAL4@500ppm	1D10501-CAL4	005F0501.D	04/14/11 15:57
11D0045	DRO ICAL3@1000ppm	1D10501-CAL3	006F0601.D	04/14/11 16:31
11D0046	DRO ICAL2@2500ppm	1D10501-CAL2	007F0701.D	04/14/11 17:04
11D0047	DRO ICAL1@5000ppm	1D10501-CAL1	008F0801.D	04/14/11 17:38

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12408	Instrument:	GL-GCFID2
Calibration:	1124001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11D0042	DRO ICAL6@100ppm	1E12408-CAL6	004F0401.D	05/03/11 17:35
11D0043	DRO ICAL5@250ppm	1E12408-CAL5	005F0501.D	05/03/11 18:08
11D0044	DRO ICAL4@500ppm	1E12408-CAL4	006F0601.D	05/03/11 18:42
11D0045	DRO ICAL3@1000ppm	1E12408-CAL3	007F0701.D	05/03/11 19:16
11D0046	DRO ICAL2@2500ppm	1E12408-CAL2	008F0801.D	05/03/11 19:49
11D0047	DRO ICAL1@5000ppm	1E12408-CAL1	009F0901.D	05/03/11 20:22

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1105001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	4/14/11_14:49	4/14/11_17:38

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	2107.61	250	2490.404	500	2523.282	1000	2673.304	2500	2608.69	5000	2590.308
Diesel Range Organics (C8-C40)	100		250		500		1000		2500		5000	
o-Terphenyl	5	2849.4	12.5	3006.32	25	2988.88	50	2960.4	125	3153.592	250	3066.692

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1105001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	4/14/11 14:49	4/14/11 17:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2498.933	8.094943	4.46	2.033007E-02			20	
Diesel Range Organics (C8-C40)							20	
o-Terphenyl	3004.214	3.405784	8.1645	0.1527526			20	

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1124001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	5/3/11_17:35	5/3/11_20:22

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	1894.53	250	1778.316	500	1977.176	1000	2096.734	2500	2416.721	5000	2166.686
Diesel Range Organics (C8-C40)	100		250		500		1000		2500		5000	
o-Terphenyl	5	2007.2	12.5	2382.32	25	2377.92	50	2414.64	125	2617.272	250	2543.064

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1124001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	5/3/11 17:35	5/3/11 20:22

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2055.027	10.95511	4.34	1.752687E-02			20	
Diesel Range Organics (C8-C40)							20	
o-Terphenyl	2390.403	8.823454	8.035833	0.2191235			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1105001
Lab File ID:	009F0901.D	Calibration Date:	04/14/11 00:00
Sequence:	1D10501	Injection Date:	04/14/11
Lab Sample ID:	1D10501-ICV1	Injection Time:	18:12

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	988.0	2498.933	2469.058		-1.2	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1124001
Lab File ID:	010F1001.D	Calibration Date:	05/03/11 00:00
Sequence:	1E12408	Injection Date:	05/03/11
Lab Sample ID:	1E12408-ICV1	Injection Time:	20:56

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1080	2055.027	2220.289		8.0	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1105001
Lab File ID:	003F0301.D	Calibration Date:	04/14/11 00:00
Sequence:	1E12205	Injection Date:	04/30/11
Lab Sample ID:	1E12205-CCV1	Injection Time:	17:54

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	951.2	2498.933	2376.913		-4.9	20
o-Terphenyl	A	50.00	42.43	3004.214	2549.14		-15.1	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1105001
Lab File ID:	017F1701.D	Calibration Date:	04/14/11 00:00
Sequence:	1E12205	Injection Date:	05/01/11
Lab Sample ID:	1E12205-CCV2	Injection Time:	01:48

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	937.1	2498.933	2341.763		-6.3	20
o-Terphenyl	A	50.00	44.04	3004.214	2646.16		-11.9	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1124001
Lab File ID:	003F0301.D	Calibration Date:	05/03/11 00:00
Sequence:	1E12913	Injection Date:	05/06/11
Lab Sample ID:	1E12913-CCV1	Injection Time:	18:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1194	2055.027	2454.531		19.4	20
o-Terphenyl	A	50.00	52.78	2390.403	2523.38		5.6	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1124001
Lab File ID:	014F1401.D	Calibration Date:	05/03/11 00:00
Sequence:	1E12913	Injection Date:	05/07/11
Lab Sample ID:	1E12913-CCV2	Injection Time:	00:29

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1218	2055.027	2503.412		21.8	20 *
o-Terphenyl	A	50.00	55.22	2390.403	2640.2		10.4	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12205	Instrument:	GL-GCFID2
		Calibration:	1105001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12205-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 04/30/11 17:54		
o-Terphenyl	50.00	84.9	80 - 120	8.15	8.15	0.0000	+/-0.050	
Blank (1D28020-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 04/30/11 18:28		
o-Terphenyl	0.02000	54.0	30 - 140	8.32	8.15	0.1700	+/-0.050	*
LCS (1D28020-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 04/30/11 19:01		
o-Terphenyl	0.02000	81.0	30 - 140	8.153	8.15	0.0030	+/-0.050	
LCS Dup (1D28020-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 04/30/11 19:35		
o-Terphenyl	0.02000	62.5	30 - 140	8.163	8.15	0.0130	+/-0.050	
GW0061 (1104286-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 04/30/11 20:09		
o-Terphenyl	0.01923	78.8	30 - 140	8.223	8.15	0.0730	+/-0.050	*
GW0062 (1104286-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 04/30/11 20:43		
o-Terphenyl	0.01887	71.1	30 - 140	8.193	8.15	0.0430	+/-0.050	
GW0063 (1104286-05) mg/L				Lab File ID: 009F0901.D		Analyzed: 04/30/11 21:16		
o-Terphenyl	0.01887	71.4	30 - 140	8.19	8.15	0.0400	+/-0.050	
GW0058 (1104289-01) mg/L				Lab File ID: 010F1001.D		Analyzed: 04/30/11 21:50		
o-Terphenyl	0.01923	60.7	30 - 140	8.276	8.15	0.1260	+/-0.050	*
Calibration Check (1E12205-CCV2) mg/L				Lab File ID: 017F1701.D		Analyzed: 05/01/11 01:48		
o-Terphenyl	50.00	88.1	80 - 120	8.14	8.15	-0.0100	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12913	Instrument:	GL-GCFID2
		Calibration:	1124001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1E12913-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 05/06/11 18:20		
o-Terphenyl	50.00	106	80 - 120	8	8	0.0000	+/-0.050	
Blank (1E02016-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 05/06/11 18:54		
o-Terphenyl	0.02000	80.6	30 - 140	8.016	8	0.0160	+/-0.050	
LCS (1E02016-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 05/06/11 19:27		
o-Terphenyl	0.02000	103	30 - 140	7.993	8	-0.0070	+/-0.050	
LCS Dup (1E02016-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 05/06/11 20:01		
o-Terphenyl	0.02000	90.2	30 - 140	7.996	8	-0.0040	+/-0.050	
GW0067 (1104307-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 05/06/11 20:35		
o-Terphenyl	0.01887	96.6	30 - 140	8.003	8	0.0030	+/-0.050	
GW0068 (1104307-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 05/06/11 21:08		
o-Terphenyl	0.01887	79.9	30 - 140	8.006	8	0.0060	+/-0.050	
GW0043 (1105015-01) mg/L				Lab File ID: 009F0901.D		Analyzed: 05/06/11 21:42		
o-Terphenyl	0.01887	74.7	30 - 140	8.01	8	0.0100	+/-0.050	
Calibration Check (1E12913-CCV2) mg/L				Lab File ID: 014F1401.D		Analyzed: 05/07/11 00:29		
o-Terphenyl	50.00	110	80 - 120	7.993	8	-0.0070	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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
GW0061	04/26/11 11:24	04/27/11 09:00	04/29/11 10:45	2.97	7.00	04/30/11 20:09	1.39	40.00	
GW0062	04/26/11 14:54	04/27/11 09:00	04/29/11 10:45	2.83	7.00	04/30/11 20:43	1.42	40.00	
GW0063	04/26/11 14:54	04/27/11 09:00	04/29/11 10:45	2.83	7.00	04/30/11 21:16	1.44	40.00	
GW0058	04/27/11 12:12	04/28/11 09:00	04/29/11 10:45	1.98	7.00	04/30/11 21:50	1.46	40.00	
GW0067	04/28/11 11:25	04/29/11 09:00	05/05/11 14:50	7.10	7.00	05/06/11 20:35	1.24	40.00	
GW0068	04/28/11 14:40	04/29/11 09:00	05/05/11 14:50	6.97	7.00	05/06/11 21:08	1.26	40.00	
GW0043	04/29/11 10:58	04/30/11 09:00	05/05/11 14:50	6.12	7.00	05/06/11 21:42	1.29	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1D28020-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	04/30/11 18:28
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1D28020	Sequence:	1E12205	Calibration:	1105001	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	0.01081	54.0	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1D28020-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	04/30/11 19:01
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1D28020	Sequence:	1E12205	Calibration:	1105001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7719	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01619	81.0	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1D28020-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	04/30/11 19:35
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1D28020	Sequence:	1E12205	Calibration:	1105001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6952	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01249	62.5	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1E02016-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	05/06/11 18:54
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1E02016 Sequence: 1E12913 Calibration: 1124001 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01611	80.6	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E02016-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	05/06/11 19:27
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1E02016	Sequence:	1E12913	Calibration:	1124001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8864	0.100	0.100	0.100	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02059	103	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E02016-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	05/06/11 20:01
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1E02016	Sequence:	1E12913	Calibration:	1124001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7392	0.100	0.100	0.100	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01805	90.2	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
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 DRO

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D11806	Instrument:	GL-ECD2
Calibration:	1118002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1D11806-CAL1	003R0101.D	04/26/11 12:07
Cal Standard	1D11806-CAL1	003F0101.D	04/26/11 12:07
Cal Standard	1D11806-CAL2	004R0101.D	04/26/11 12:23
Cal Standard	1D11806-CAL2	004F0101.D	04/26/11 12:23
Cal Standard	1D11806-CAL3	005R0101.D	04/26/11 12:44
Cal Standard	1D11806-CAL3	005F0101.D	04/26/11 12:44
Cal Standard	1D11806-CAL4	006R0101.D	04/26/11 13:05
Cal Standard	1D11806-CAL4	006F0101.D	04/26/11 13:05
Cal Standard	1D11806-CAL5	007R0101.D	04/26/11 13:27
Cal Standard	1D11806-CAL5	007F0101.D	04/26/11 13:27
Cal Standard	1D11806-CAL6	008R0101.D	04/26/11 13:48
Cal Standard	1D11806-CAL6	008F0101.D	04/26/11 13:48
Initial Cal Check	1D11806-ICV1	009R0101.D	04/26/11 14:10
Initial Cal Check	1D11806-ICV1	009F0101.D	04/26/11 14:10

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12614	Instrument:	GL-ECD2
Calibration:	1118002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1E12614-CCV1	002R0101.D	05/06/11 07:37
Calibration Check	1E12614-CCV1	002F0101.D	05/06/11 07:37
LCS	1E03016-BS1	004R0101.D	05/06/11 08:19
LCS	1E03016-BS1	004F0101.D	05/06/11 08:19
LCS Dup	1E03016-BSD1	005F0101.D	05/06/11 08:40
LCS Dup	1E03016-BSD1	005R0101.D	05/06/11 08:40
Blank	1E03016-BLK1	006R0101.D	05/06/11 09:01
GW0061	1104286-01	007F0101.D	05/06/11 09:22
GW0062	1104286-03	008F0101.D	05/06/11 09:43
GW0062	1104286-03	008R0101.D	05/06/11 09:43
GW0063	1104286-05	009R0101.D	05/06/11 10:05
GW0063	1104286-05	009F0101.D	05/06/11 10:05
GW0058	1104289-01	010F0101.D	05/06/11 10:26
GW0058	1104289-01	010R0101.D	05/06/11 10:26
Calibration Check	1E12614-CCV2	011F0101.D	05/06/11 10:47
Calibration Check	1E12614-CCV2	011R0101.D	05/06/11 10:47
GW0067	1104307-01	012F0101.D	05/06/11 11:09
GW0068	1104307-03	013R0101.D	05/06/11 11:30
GW0043	1105015-01	014R0101.D	05/06/11 11:51
Calibration Check	1E12614-CCV3	019R0101.D	05/06/11 13:38
Calibration Check	1E12614-CCV3	019F0101.D	05/06/11 13:38

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01	File ID:	007F0101.D
Sampled:	04/26/11 11:24	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 09:22
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00930	0.0186	0.0279	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03	File ID:	008F0101.D
Sampled:	04/26/11 14:54	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 09:43
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.196	0.00931	0.0186	0.0279	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05	File ID:	009F0101.D
Sampled:	04/26/11 14:54	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 10:05
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.164	0.00933	0.0187	0.0280	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01	File ID:	010F0101.D
Sampled:	04/27/11 12:12	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 10:26
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.804	0.00930	0.0186	0.0279	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01	File ID:	012F0101.D
Sampled:	04/28/11 11:25	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 11:09
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.0774	0.00929	0.0186	0.0279	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-03	File ID:	013R0101.D
Sampled:	04/28/11 14:40	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 11:30
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00932	0.0186	0.0279	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01	File ID:	014R0101.D
Sampled:	04/29/11 10:58	Prepared:	05/03/11 13:41	Analyzed:	05/06/11 11:51
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00953	0.0191	0.0286	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E03016	Laboratory ID:	1E03016-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	0.5667	113	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4198	84.0	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5709	114	0.740	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4280	85.6	1.92	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E03016 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/03/11 13:41	37.64	35.00
GW0062	1104286-03	05/03/11 13:41	37.58	35.00
GW0063	1104286-05	05/03/11 13:41	37.53	35.00
GW0058	1104289-01	05/03/11 13:41	37.64	35.00
GW0067	1104307-01	05/03/11 13:41	37.68	35.00
GW0068	1104307-03	05/03/11 13:41	37.57	35.00
GW0043	1105015-01	05/03/11 13:41	36.72	35.00
Blank	1E03016-BLK1	05/03/11 13:41	35.00	35.00
LCS	1E03016-BS1	05/03/11 13:41	35.00	35.00
LCS Dup	1E03016-BSD1	05/03/11 13:41	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_010
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1E03016-BLK1	File ID:	006R0101.D
Sampled:		Prepared:	05/03/11 13:41	Analyzed:	05/06/11 09:01
Solids:		Preparation:	EDB	Dilution:	

Batch: 1E03016 Sequence: 1E12614 Calibration: 1118002 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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D11806	Instrument:	GL-ECD2
Calibration:	1118002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11D0621	EDB ICAL 1 (0.03ppb)	1D11806-CAL1	003R0101.D	04/26/11 12:07
11D0621	EDB ICAL 1 (0.03ppb)	1D11806-CAL1	003F0101.D	04/26/11 12:07
11D0622	EDB ICAL 2 (0.05ppb)	1D11806-CAL2	004R0101.D	04/26/11 12:23
11D0622	EDB ICAL 2 (0.05ppb)	1D11806-CAL2	004F0101.D	04/26/11 12:23
11D0623	EDB ICAL 3 (0.10ppb)	1D11806-CAL3	005R0101.D	04/26/11 12:44
11D0623	EDB ICAL 3 (0.10ppb)	1D11806-CAL3	005F0101.D	04/26/11 12:44
11D0624	EDB ICAL 4 (0.20ppb)	1D11806-CAL4	006R0101.D	04/26/11 13:05
11D0624	EDB ICAL 4 (0.20ppb)	1D11806-CAL4	006F0101.D	04/26/11 13:05
11D0625	EDB ICAL 5 (0.50ppb)/CCV	1D11806-CAL5	007R0101.D	04/26/11 13:27
11D0625	EDB ICAL 5 (0.50ppb)/CCV	1D11806-CAL5	007F0101.D	04/26/11 13:27
11D0626	EDB ICAL 6 (1.00ppb)	1D11806-CAL6	008R0101.D	04/26/11 13:48
11D0626	EDB ICAL 6 (1.00ppb)	1D11806-CAL6	008F0101.D	04/26/11 13:48

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1118002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	4/26/11_12:07	4/26/11_13:48

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	0.03	11666.67	0.05	13000	0.1	14970	0.2	13020	0.5	11516	1	11342
1,2-Dibromoethane [2C]	0.03	30200	0.05	36160	0.1	37010	0.2	34535	0.5	31338	1	30084
1,2-Dibromo-3-chloropropane	0.03	16800	0.05	21540	0.1	20560	0.2	21680	0.5	19172	1	18131
1,2-Dibromo-3-chloropropane [2C]	0.03	73000	0.05	70700	0.1	68990	0.2	68840	0.5	70438	1	70415

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1118002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	4/26/11 12:07	4/26/11 13:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	12585.78	10.99857	1.744167	0.3001279	0.99878		CCC ()	*
1,2-Dibromoethane [2C]	33221.17	9.251799	0.6746667	0.5104924			CCC ()	*
1,2-Dibromo-3-chloropropane	19647.17	9.968561	7.306833	8.658577E-02			CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	70397.17	2.132975	4.458	0.2389413			CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	009F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1D11806	Injection Date:	04/26/11
Lab Sample ID:	1D11806-ICV1	Injection Time:	14:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5687	12585.78	13112		13.7	20
1,2-Dibromoethane [2C]	A	0.5000	0.5058	33221.17	33608		1.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	002F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1E12614	Injection Date:	05/06/11
Lab Sample ID:	1E12614-CCV1	Injection Time:	07:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5754	12585.78	13262		15.1	20
1,2-Dibromoethane [2C]	A	0.5000	0.4286	33221.17	28474		-14.3	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	011F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1E12614	Injection Date:	05/06/11
Lab Sample ID:	1E12614-CCV2	Injection Time:	10:47

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5682	12585.78	13100		13.6	20
1,2-Dibromoethane [2C]	A	0.5000	0.4275	33221.17	28406		-14.5	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_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	019F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1E12614	Injection Date:	05/06/11
Lab Sample ID:	1E12614-CCV3	Injection Time:	13:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5186	12585.78	11990		3.7	20
1,2-Dibromoethane [2C]	A	0.5000	0.4092	33221.17	27192		-18.1	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_010

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
GW0061	04/26/11 11:24	04/27/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 09:22	9.92	14.00	
GW0062	04/26/11 14:54	04/27/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 09:43	9.78	14.00	
GW0063	04/26/11 14:54	04/27/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 10:05	9.80	14.00	
GW0058	04/27/11 12:12	04/28/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 10:26	8.97	14.00	
GW0067	04/28/11 11:25	04/29/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 11:09	7.95	14.00	
GW0068	04/28/11 14:40	04/29/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 11:30	7.83	14.00	
GW0043	04/29/11 10:58	04/30/11 09:00	05/03/11 13:41	N/A	14.00	05/06/11 11:51	7.00	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E03016-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	05/06/11 08:19
Solids:		Preparation:	EDB	Dilution:	

Batch:	1E03016	Sequence:	1E12614	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5667	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E03016-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	05/06/11 08:19
Solids:		Preparation:	EDB	Dilution:	

Batch:	1E03016	Sequence:	1E12614	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4198	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1E03016-BSD1
File ID: 005F0101.D
Sampled:
Prepared:
Analyzed: 05/06/11 08:40
Solids:
Preparation: EDB
Dilution:
Batch: 1E03016
Sequence: 1E12614
Calibration: 1118002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5709	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1E03016-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	05/06/11 08:40
Solids:		Preparation:	EDB	Dilution:	

Batch:	1E03016	Sequence:	1E12614	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4280	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0062

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1104286-03 Date(s) Analyzed: 05/06/2011 05/06/2011

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	1.83	1.71	1.77	0.196	
	2	0.69	0.64	0.70	0.0896	75

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0063

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1104286-05 Date(s) Analyzed: 05/06/2011 05/06/2011

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	1.83	1.71	1.77	0.164	
	2	0.69	0.64	0.70	0.0937	54

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0058

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1104289-01

Date(s) Analyzed: 05/06/2011 05/06/2011

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	1.83	1.71	1.77	0.804	
	2	0.69	0.64	0.70	0.563	35

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0067

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1104307-01

Date(s) Analyzed: 05/06/2011 05/06/2011

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	1.83	1.71	1.77	0.0774	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1E03016-BS1 Date(s) Analyzed: 05/06/2011 05/06/2011

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	1.83	1.71	1.77	0.5667	
	2	0.69	0.64	0.70	0.4198	30

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1E03016-BSD1 Date(s) Analyzed: 05/06/2011 05/06/2011

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	1.83	1.71	1.77	0.5709	
	2	0.69	0.64	0.70	0.4280	29

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
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

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0061

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Ground Water
Sampled: 04/26/11 11:24
% Solids: 0.00

SDG: Kirtland_010
Project: Kirtland AFB 2011
Laboratory ID: 1104286-01
Received: 04/27/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	50100	1000	2000	5000	1		SW6010B	1E10011	05/11/11 14:29
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E10011	05/11/11 14:29
7439-95-4	Magnesium	6680	1000	3000	5000	1		SW6010B	1E10011	05/11/11 14:29
7440-09-7	Potassium	2540	1000	3000	5000	1	J	SW6010B	1E10011	05/11/11 14:29
7440-23-5	Sodium	27100	1000	3000	5000	1		SW6010B	1E10011	05/11/11 14:29

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-02
Sampled:	04/26/11 11:24	Received:	04/27/11 09:00
% 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	1E10011	05/11/11 14:34
7439-96-5	Manganese (dissolved)	18.8	3.00	6.00	15.0	1		SW6010B	1E10011	05/11/11 14:34

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03
Sampled:	04/26/11 14:54	Received:	04/27/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	68200	1000	2000	5000	1		SW6010B	1E10011	05/11/11 14:38
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E10011	05/11/11 14:38
7439-95-4	Magnesium	9010	1000	3000	5000	1		SW6010B	1E10011	05/11/11 14:38
7440-09-7	Potassium	3480	1000	3000	5000	1	J	SW6010B	1E10011	05/11/11 14:38
7440-23-5	Sodium	34900	1000	3000	5000	1		SW6010B	1E10011	05/11/11 14:38

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-04
Sampled:	04/26/11 14:54	Received:	04/27/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	66.4	30.0	60.0	100	1	J	SW6010B	1E10011	05/11/11 15:05
7439-96-5	Manganese (dissolved)	212	3.00	6.00	15.0	1		SW6010B	1E10011	05/11/11 15:05

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-05
Sampled:	04/26/11 14:54	Received:	04/27/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	67500	1000	2000	5000	1		SW6010B	1E10011	05/11/11 15:09
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E10011	05/11/11 15:09
7439-95-4	Magnesium	8920	1000	3000	5000	1		SW6010B	1E10011	05/11/11 15:09
7440-09-7	Potassium	3560	1000	3000	5000	1	J	SW6010B	1E10011	05/11/11 15:09
7440-23-5	Sodium	36300	1000	3000	5000	1		SW6010B	1E10011	05/11/11 15:09

ANALYSIS DATA SHEET

GW0063

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-06
Sampled:	04/26/11 14:54	Received:	04/27/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	65.8	30.0	60.0	100	1	J	SW6010B	1E10011	05/11/11 15:14
7439-96-5	Manganese (dissolved)	220	3.00	6.00	15.0	1		SW6010B	1E10011	05/11/11 15:14

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-01
Sampled:	04/27/11 12:12	Received:	04/28/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41900	1000	2000	5000	1		SW6010B	1E10011	05/11/11 15:19
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E10011	05/11/11 15:19
7439-95-4	Magnesium	5330	1000	3000	5000	1		SW6010B	1E10011	05/11/11 15:19
7440-09-7	Potassium	2450	1000	3000	5000	1	J	SW6010B	1E10011	05/11/11 15:19
7440-23-5	Sodium	27500	1000	3000	5000	1		SW6010B	1E10011	05/11/11 15:19

ANALYSIS DATA SHEET

GW0058

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1104289-02
Sampled:	04/27/11 12:12	Received:	04/28/11 09:00
% 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	1E10011	05/11/11 15:23
7439-96-5	Manganese (dissolved)	40.6	3.00	6.00	15.0	1		SW6010B	1E10011	05/11/11 15:23

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01
Sampled:	04/28/11 11:25	Received:	04/29/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	40200	1000	2000	5000	1		SW6010B	1E10013	05/12/11 14:45
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E10013	05/12/11 14:45
7439-95-4	Magnesium	4960	1000	3000	5000	1	J	SW6010B	1E10013	05/12/11 14:45
7440-09-7	Potassium	2520	1000	3000	5000	1	J	SW6010B	1E10013	05/12/11 14:45
7440-23-5	Sodium	24100	1000	3000	5000	1		SW6010B	1E10013	05/12/11 14:45

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-02
Sampled:	04/28/11 11:25	Received:	04/29/11 09:00
% 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	1E10013	05/12/11 14:50
7439-96-5	Manganese (dissolved)	4.44	3.00	6.00	15.0	1	J	SW6010B	1E10013	05/12/11 14:50

ANALYSIS DATA SHEET

GW0068

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Ground Water
Sampled: 04/28/11 14:40
% Solids: 0.00

SDG: Kirtland_010
Project: Kirtland AFB 2011
Laboratory ID: 1104307-03
Received: 04/29/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	85800	1000	2000	5000	1		SW6010B	1E10013	05/12/11 14:54
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E10013	05/12/11 14:54
7439-95-4	Magnesium	10500	1000	3000	5000	1		SW6010B	1E10013	05/12/11 14:54
7440-09-7	Potassium	3710	1000	3000	5000	1	J	SW6010B	1E10013	05/12/11 14:54
7440-23-5	Sodium	35200	1000	3000	5000	1		SW6010B	1E10013	05/12/11 14:54

ANALYSIS DATA SHEET

GW0068

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-04
Sampled:	04/28/11 14:40	Received:	04/29/11 09:00
% 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	1E10013	05/12/11 14:59
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1E10013	05/12/11 14:59

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01
Sampled:	04/29/11 10:58	Received:	04/30/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	91800	1000	2000	5000	1		SW6010B	1E11024	05/12/11 18:41
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1E11024	05/12/11 18:41
7439-95-4	Magnesium	13500	1000	3000	5000	1		SW6010B	1E11024	05/12/11 18:41
7440-09-7	Potassium	4190	1000	3000	5000	1	J	SW6010B	1E11024	05/12/11 18:41
7440-23-5	Sodium	49400	1000	3000	5000	1	X	SW6010B	1E11024	05/12/11 18:41

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-02
Sampled:	04/29/11 10:58	Received:	04/30/11 09:00
% 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	1E11024	05/12/11 18:46
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1E11024	05/12/11 18:46

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1131001
Sequence: 1E13113

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E13113-ICV1	Calcium	50000	51980	104	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10380	104	ug/L	+/- 10.00%
	Lead	1000	977.2	97.7	ug/L	+/- 10.00%
	Magnesium	50000	48790	97.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1044	104	ug/L	+/- 10.00%
	Potassium	10000	9529	95.3	ug/L	+/- 10.00%
	Sodium	50000	53420	107	ug/L	+/- 10.00%
1E13113-CCV1	Calcium	50000	50620	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10300	103	ug/L	+/- 10.00%
	Lead	1000	975.7	97.6	ug/L	+/- 10.00%
	Magnesium	50000	47650	95.3	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1019	102	ug/L	+/- 10.00%
	Potassium	10000	10310	103	ug/L	+/- 10.00%
	Sodium	50000	52760	106	ug/L	+/- 10.00%
1E13113-CCV2	Calcium	50000	49710	99.4	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10120	101	ug/L	+/- 10.00%
	Lead	1000	967.0	96.7	ug/L	+/- 10.00%
	Magnesium	50000	47210	94.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1021	102	ug/L	+/- 10.00%
	Potassium	10000	10610	106	ug/L	+/- 10.00%
	Sodium	50000	54150	108	ug/L	+/- 10.00%
1E13113-CCV3	Calcium	50000	50750	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10220	102	ug/L	+/- 10.00%
	Lead	1000	965.9	96.6	ug/L	+/- 10.00%
	Magnesium	50000	48200	96.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1026	103	ug/L	+/- 10.00%
	Potassium	10000	10400	104	ug/L	+/- 10.00%
	Sodium	50000	52920	106	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_010
Project: Kirtland AFB 2011
Calibration: 1133001
Sequence: 1E13312

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E13312-ICV1	Calcium	50000	51890	104	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10420	104	ug/L	+/- 10.00%
	Lead	1000	988.5	98.8	ug/L	+/- 10.00%
	Magnesium	50000	48950	97.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1046	105	ug/L	+/- 10.00%
	Potassium	10000	9422	94.2	ug/L	+/- 10.00%
	Sodium	50000	52430	105	ug/L	+/- 10.00%
1E13312-CCV1	Calcium	50000	52190	104	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10280	103	ug/L	+/- 10.00%
	Lead	1000	974.9	97.5	ug/L	+/- 10.00%
	Magnesium	50000	48560	97.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1046	105	ug/L	+/- 10.00%
	Potassium	10000	10180	102	ug/L	+/- 10.00%
	Sodium	50000	51240	102	ug/L	+/- 10.00%
1E13312-CCV2	Calcium	50000	52690	105	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10410	104	ug/L	+/- 10.00%
	Lead	1000	978.8	97.9	ug/L	+/- 10.00%
	Magnesium	50000	48850	97.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1043	104	ug/L	+/- 10.00%
	Potassium	10000	9967	99.7	ug/L	+/- 10.00%
	Sodium	50000	50340	101	ug/L	+/- 10.00%
1E13312-CCV3	Calcium	50000	51010	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9855	98.5	ug/L	+/- 10.00%
	Lead	1000	969.9	97.0	ug/L	+/- 10.00%
	Magnesium	50000	46950	93.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1028	103	ug/L	+/- 10.00%
	Potassium	10000	10790	108	ug/L	+/- 10.00%
	Sodium	50000	52800	106	ug/L	+/- 10.00%
1E13312-CCV4	Calcium	50000	50970	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9994	99.9	ug/L	+/- 10.00%
	Lead	1000	984.0	98.4	ug/L	+/- 10.00%
	Magnesium	50000	47040	94.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1033	103	ug/L	+/- 10.00%
	Potassium	10000	10770	108	ug/L	+/- 10.00%
	Sodium	50000	53750	108	ug/L	+/- 10.00%
1E13312-CCV5	Calcium	50000	48150	96.3	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10000	100	ug/L	+/- 10.00%
	Lead	1000	1013	101	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_010
Project: Kirtland AFB 2011
Calibration: 1133001
Sequence: 1E13312

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E13312-CCV5	Magnesium	50000	46370	92.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	998.1	99.8	ug/L	+/- 10.00%
	Potassium	10000	10600	106	ug/L	+/- 10.00%
	Sodium	50000	54660	109	ug/L	+/- 10.00%
1E13312-CCV6	Calcium	50000	47660	95.3	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10250	102	ug/L	+/- 10.00%
	Lead	1000	1015	102	ug/L	+/- 10.00%
	Magnesium	50000	46500	93.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	999.8	100	ug/L	+/- 10.00%
	Potassium	10000	10560	106	ug/L	+/- 10.00%
	Sodium	**50000**	**55650**	**111**	**ug/L**	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1131001

Sequence: 1E13113

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1E13113-CRL1	Calcium	2000	1991	99.5	ug/L	80 - 120
	Iron (dissolved)	60.00	61.24	102	ug/L	80 - 120
	Magnesium	3000	2675	89.2	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.103	102	ug/L	80 - 120
	Potassium	3000	2901	96.7	ug/L	80 - 120
	Sodium	3000	2999	100	ug/L	80 - 120
1E13113-CRL2	Lead	3.000	2.464	82.1	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1133001

Sequence: 1E13312

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1E13312-CRL1	Calcium	2000	2073	104	ug/L	80 - 120
	Iron (dissolved)	60.00	65.22	109	ug/L	80 - 120
	Magnesium	3000	2780	92.7	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.550	109	ug/L	80 - 120
	Potassium	3000	2997	99.9	ug/L	80 - 120
	Sodium	3000	3037	101	ug/L	80 - 120
1E13312-CRL2	Lead	3.000	2.786	92.9	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1E13113
Calibration: 1131001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E13113-ICB1	Calcium	5.910	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.434	30.0	100	ug/L	U	SW6010B
	Lead	-0.2788	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.650	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.05695	3.00	15.0	ug/L	U	SW6010B
	Potassium	-2.760	1000	5000	ug/L	U	SW6010B
	Sodium	8.330	1000	5000	ug/L	U	SW6010B
1E13113-CCB1	Calcium	5.42	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.81	30.0	100	ug/L	U	SW6010B
	Lead	0.566	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.70	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.163	3.00	15.0	ug/L	U	SW6010B
	Potassium	2.03	1000	5000	ug/L	U	SW6010B
	Sodium	4.61	1000	5000	ug/L	U	SW6010B
1E10011-BLK1	Calcium	28.3	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	7.11	30.0	100	ug/L	U	SW6010B
	Lead	-0.180	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.75	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.278	3.00	15.0	ug/L	U	SW6010B
	Potassium	2.91	1000	5000	ug/L	U	SW6010B
	Sodium	10.8	1000	5000	ug/L	U	SW6010B
1E13113-CCB2	Calcium	6.18	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.480	30.0	100	ug/L	U	SW6010B
	Lead	0.684	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.50	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.419	3.00	15.0	ug/L	U	SW6010B
	Potassium	8.83	1000	5000	ug/L	U	SW6010B
	Sodium	4.32	1000	5000	ug/L	U	SW6010B
1E13113-CCB3	Calcium	6.50	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.0366	30.0	100	ug/L	U	SW6010B
	Lead	0.612	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.670	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.150	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1E13113
Calibration: 1131001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E13113-CCB3	Potassium	-2.29	1000	5000	ug/L	U	SW6010B
	Sodium	11.5	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1E13312
Calibration: 1133001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E13312-ICB1	Calcium	1.920	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.944	30.0	100	ug/L	U	SW6010B
	Lead	-0.4436	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.780	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.1393	3.00	15.0	ug/L	U	SW6010B
	Potassium	14.56	1000	5000	ug/L	U	SW6010B
	Sodium	7.070	1000	5000	ug/L	U	SW6010B
1E13312-CCB1	Calcium	2.01	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.31	30.0	100	ug/L	U	SW6010B
	Lead	0.0928	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.55	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0603	3.00	15.0	ug/L	U	SW6010B
	Potassium	14.4	1000	5000	ug/L	U	SW6010B
	Sodium	8.57	1000	5000	ug/L	U	SW6010B
1E13312-CCB2	Calcium	44.5	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	9.90	30.0	100	ug/L	U	SW6010B
	Lead	0.424	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.44	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.691	3.00	15.0	ug/L	U	SW6010B
	Potassium	13.3	1000	5000	ug/L	U	SW6010B
	Sodium	18.0	1000	5000	ug/L	U	SW6010B
1E10013-BLK1	Calcium	44.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	42.5	30.0	100	ug/L	J	SW6010B
	Lead	-0.112	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.37	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.636	3.00	15.0	ug/L	U	SW6010B
	Potassium	18.1	1000	5000	ug/L	U	SW6010B
	Sodium	18.8	1000	5000	ug/L	U	SW6010B
1E13312-CCB3	Calcium	5.00	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.26	30.0	100	ug/L	U	SW6010B
	Lead	-1.01	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.11	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.119	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1E13312
Calibration: 1133001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E13312-CCB3	Potassium	44.7	1000	5000	ug/L	U	SW6010B
	Sodium	148	1000	5000	ug/L	U	SW6010B
1E13312-CCB4	Calcium	9.93	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.11	30.0	100	ug/L	U	SW6010B
	Lead	-0.122	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.58	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.163	3.00	15.0	ug/L	U	SW6010B
	Potassium	45.9	1000	5000	ug/L	U	SW6010B
	Sodium	93.3	1000	5000	ug/L	U	SW6010B
1E11024-BLK1	Calcium	14.7	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	4.58	30.0	100	ug/L	U	SW6010B
	Lead	-0.179	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.88	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.176	3.00	15.0	ug/L	U	SW6010B
	Potassium	48.1	1000	5000	ug/L	U	SW6010B
	Sodium	83.1	1000	5000	ug/L	U	SW6010B
1E13312-CCB5	Calcium	13.9	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.0896	30.0	100	ug/L	U	SW6010B
	Lead	0.307	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.05	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.129	3.00	15.0	ug/L	U	SW6010B
	Potassium	28.3	1000	5000	ug/L	U	SW6010B
	Sodium	58.6	1000	5000	ug/L	U	SW6010B
1E13312-CCB6	Calcium	3.81	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.175	30.0	100	ug/L	U	SW6010B
	Lead	-0.502	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-5.13	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0825	3.00	15.0	ug/L	U	SW6010B
	Potassium	24.2	1000	5000	ug/L	U	SW6010B
	Sodium	43.3	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1131001
Sequence: 1E13113

Lab Sample ID	Analyte	True	Found	%R	Units
1E13113-IFA1	Calcium	500000	487,290.00	97.5	ug/L
	Iron (dissolved)	200000	203,860.00	102	ug/L
	Lead		10.13		ug/L
	Magnesium	500000	496,520.00	99.3	ug/L
	Manganese (dissolved)		3.93		ug/L
	Potassium		-79.25		ug/L
	Sodium		13.42		ug/L
1E13113-IFB1	Calcium	500000	485,430.00	97.1	ug/L
	Iron (dissolved)	200000	199,210.00	99.6	ug/L
	Lead	50.00	58.59	117	ug/L
	Magnesium	500000	496,500.00	99.3	ug/L
	Manganese (dissolved)	500.0	479.95	96.0	ug/L
	Potassium		-73.69		ug/L
	Sodium		32.63		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1133001
Sequence: 1E13312

Lab Sample ID	Analyte	True	Found	%R	Units
1E13312-IFA1	Calcium	500000	488,960.00	97.8	ug/L
	Iron (dissolved)	200000	202,580.00	101	ug/L
	Lead		6.25		ug/L
	Magnesium	500000	501,490.00	100	ug/L
	Manganese (dissolved)		4.34		ug/L
	Potassium		-76.54		ug/L
	Sodium		25.15		ug/L
1E13312-IFB1	Calcium	500000	487,330.00	97.5	ug/L
	Iron (dissolved)	200000	197,430.00	98.7	ug/L
	Lead	50.00	56.48	113	ug/L
	Magnesium	500000	496,030.00	99.2	ug/L
	Manganese (dissolved)	500.0	495.78	99.2	ug/L
	Potassium		-69.81		ug/L
	Sodium		43.01		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E10011	Laboratory ID:	1E10011-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	4968	99.4	80 - 120
Iron (dissolved)	1000	1063	106	80 - 120
Lead	250.0	250.9	100	80 - 120
Magnesium	5000	4464	89.3	80 - 120
Manganese (dissolved)	500.0	510.8	102	80 - 120
Potassium	5000	4991	99.8	80 - 120
Sodium	5000	5319	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E10013	Laboratory ID:	1E10013-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	5077	102	80 - 120
Iron (dissolved)	1000	1054	105	80 - 120
Lead	250.0	251.9	101	80 - 120
Magnesium	5000	4510	90.2	80 - 120
Manganese (dissolved)	500.0	530.3	106	80 - 120
Potassium	5000	5030	101	80 - 120
Sodium	5000	5193	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E11024	Laboratory ID:	1E11024-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	4918	98.4	80 - 120
Iron (dissolved)	1000	1010	101	80 - 120
Lead	250.0	251.8	101	80 - 120
Magnesium	5000	4344	86.9	80 - 120
Manganese (dissolved)	500.0	521.3	104	80 - 120
Potassium	5000	5319	106	80 - 120
Sodium	5000	5458	109	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** Kirtland_010

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_010

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
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
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
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

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_010

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
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
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
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

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_010

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
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
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
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

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_010

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
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
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
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

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_010

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
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
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
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

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_010

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				
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				
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				
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				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_010

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
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
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
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

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E10011 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/10/11 10:28	50.00	50.00
GW0061	1104286-02	05/10/11 10:28	50.00	50.00
GW0062	1104286-03	05/10/11 10:28	50.00	50.00
GW0062	1104286-04	05/10/11 10:28	50.00	50.00
GW0063	1104286-05	05/10/11 10:28	50.00	50.00
GW0063	1104286-06	05/10/11 10:28	50.00	50.00
GW0058	1104289-01	05/10/11 10:28	50.00	50.00
GW0058	1104289-02	05/10/11 10:28	50.00	50.00
Blank	1E10011-BLK1	05/10/11 10:28	50.00	50.00
Blank	1E10011-BLK1	05/10/11 10:28	50.00	50.00
LCS	1E10011-BS1	05/10/11 10:28	50.00	50.00
LCS	1E10011-BS1	05/10/11 10:28	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E10013 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0067	1104307-01	05/10/11 10:32	50.00	50.00
GW0067	1104307-02	05/10/11 10:32	50.00	50.00
GW0068	1104307-03	05/10/11 10:32	50.00	50.00
GW0068	1104307-04	05/10/11 10:32	50.00	50.00
Blank	1E10013-BLK1	05/10/11 10:32	50.00	50.00
Blank	1E10013-BLK1	05/10/11 10:32	50.00	50.00
LCS	1E10013-BS1	05/10/11 10:32	50.00	50.00
LCS	1E10013-BS1	05/10/11 10:32	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E11024 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0043	1105015-01	05/11/11 11:58	50.00	50.00
GW0043	1105015-02	05/11/11 11:58	50.00	50.00
Blank	1E11024-BLK1	05/11/11 11:58	50.00	50.00
Blank	1E11024-BLK1	05/11/11 11:58	50.00	50.00
LCS	1E11024-BS1	05/11/11 11:58	50.00	50.00
LCS	1E11024-BS1	05/11/11 11:58	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13113	Instrument:	ME-ICP
Calibration:	1131001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E13113-CAL1	051111A-001	05/11/11 11:22
Cal Standard	1E13113-CAL1	051111A-001	05/11/11 11:22
Cal Standard	1E13113-CAL2	051111A-002	05/11/11 11:26
Cal Standard	1E13113-CAL2	051111A-002	05/11/11 11:26
Cal Standard	1E13113-CAL3	051111A-003	05/11/11 11:30
Cal Standard	1E13113-CAL3	051111A-003	05/11/11 11:30
Cal Standard	1E13113-CAL4	051111A-004	05/11/11 11:35
Cal Standard	1E13113-CAL5	051111A-005	05/11/11 11:39
Cal Standard	1E13113-CAL5	051111A-005	05/11/11 11:39
Cal Standard	1E13113-CAL6	051111A-006	05/11/11 11:44
Cal Standard	1E13113-CAL6	051111A-006	05/11/11 11:44
Cal Standard	1E13113-CAL7	051111A-007	05/11/11 11:49
Cal Standard	1E13113-CAL8	051111A-008	05/11/11 11:54
Initial Cal Check	1E13113-ICV1	051111B-001	05/11/11 12:22
Initial Cal Check	1E13113-ICV1	051111B-001	05/11/11 12:22
Initial Cal Blank	1E13113-ICB1	051111B-002	05/11/11 12:29
Initial Cal Blank	1E13113-ICB1	051111B-002	05/11/11 12:29
Instrument RL Check	1E13113-CRL1	051111B-006	05/11/11 12:49
Instrument RL Check	1E13113-CRL1	051111B-006	05/11/11 12:49
Instrument RL Check	1E13113-CRL2	051111B-007	05/11/11 12:54
Interference Check A	1E13113-IFA1	051111B-008	05/11/11 12:58
Interference Check A	1E13113-IFA1	051111B-008	05/11/11 12:58
Interference Check B	1E13113-IFB1	051111B-009	05/11/11 13:04
Interference Check B	1E13113-IFB1	051111B-009	05/11/11 13:04
Calibration Check	1E13113-CCV1	051111B-011	05/11/11 13:15
Calibration Check	1E13113-CCV1	051111B-011	05/11/11 13:15
Calibration Blank	1E13113-CCB1	051111B-012	05/11/11 13:22
Calibration Blank	1E13113-CCB1	051111B-012	05/11/11 13:22
Blank	1E10011-BLK1	051111B-013	05/11/11 13:27
Blank	1E10011-BLK1	051111B-013	05/11/11 13:27
LCS	1E10011-BS1	051111B-014	05/11/11 13:31
LCS	1E10011-BS1	051111B-014	05/11/11 13:31

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13113	Instrument:	ME-ICP
Calibration:	1131001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0061	1104286-01	051111B-026	05/11/11 14:29
GW0061	1104286-02	051111B-027	05/11/11 14:34
GW0062	1104286-03	051111B-028	05/11/11 14:38
Calibration Check	1E13113-CCV2	051111B-030	05/11/11 14:51
Calibration Check	1E13113-CCV2	051111B-030	05/11/11 14:51
Calibration Blank	1E13113-CCB2	051111B-031	05/11/11 14:58
Calibration Blank	1E13113-CCB2	051111B-031	05/11/11 14:58
GW0062	1104286-04	051111C-001	05/11/11 15:05
GW0063	1104286-05	051111C-002	05/11/11 15:09
GW0063	1104286-06	051111C-003	05/11/11 15:14
GW0058	1104289-01	051111C-004	05/11/11 15:19
GW0058	1104289-02	051111C-005	05/11/11 15:23
Calibration Check	1E13113-CCV3	051111C-015	05/11/11 16:12
Calibration Check	1E13113-CCV3	051111C-015	05/11/11 16:12
Calibration Blank	1E13113-CCB3	051111C-016	05/11/11 16:19
Calibration Blank	1E13113-CCB3	051111C-016	05/11/11 16:19

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13312	Instrument:	ME-ICP
Calibration:	1133001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E13312-CAL1	051211A-001	05/12/11 11:32
Cal Standard	1E13312-CAL1	051211A-001	05/12/11 11:32
Cal Standard	1E13312-CAL2	051211A-002	05/12/11 11:37
Cal Standard	1E13312-CAL2	051211A-002	05/12/11 11:37
Cal Standard	1E13312-CAL3	051211A-003	05/12/11 11:41
Cal Standard	1E13312-CAL3	051211A-003	05/12/11 11:41
Cal Standard	1E13312-CAL4	051211A-004	05/12/11 11:45
Cal Standard	1E13312-CAL5	051211A-005	05/12/11 11:50
Cal Standard	1E13312-CAL5	051211A-005	05/12/11 11:50
Cal Standard	1E13312-CAL6	051211A-006	05/12/11 11:54
Cal Standard	1E13312-CAL6	051211A-006	05/12/11 11:54
Cal Standard	1E13312-CAL7	051211A-007	05/12/11 11:59
Cal Standard	1E13312-CAL8	051211A-008	05/12/11 12:04
Initial Cal Check	1E13312-ICV1	051211B-001	05/12/11 12:33
Initial Cal Check	1E13312-ICV1	051211B-001	05/12/11 12:33
Initial Cal Blank	1E13312-ICB1	051211B-002	05/12/11 12:40
Initial Cal Blank	1E13312-ICB1	051211B-002	05/12/11 12:40
Instrument RL Check	1E13312-CRL1	051211B-003	05/12/11 12:45
Instrument RL Check	1E13312-CRL1	051211B-003	05/12/11 12:45
Instrument RL Check	1E13312-CRL2	051211B-005	05/12/11 12:54
Interference Check A	1E13312-IFA1	051211B-006	05/12/11 12:59
Interference Check A	1E13312-IFA1	051211B-006	05/12/11 12:59
Interference Check B	1E13312-IFB1	051211B-007	05/12/11 13:05
Interference Check B	1E13312-IFB1	051211B-007	05/12/11 13:05
Calibration Check	1E13312-CCV1	051211B-009	05/12/11 13:16
Calibration Check	1E13312-CCV1	051211B-009	05/12/11 13:16
Calibration Blank	1E13312-CCB1	051211B-010	05/12/11 13:24
Calibration Blank	1E13312-CCB1	051211B-010	05/12/11 13:24
Calibration Check	1E13312-CCV2	051211B-020	05/12/11 14:13
Calibration Check	1E13312-CCV2	051211B-020	05/12/11 14:13
Calibration Blank	1E13312-CCB2	051211B-021	05/12/11 14:20
Calibration Blank	1E13312-CCB2	051211B-021	05/12/11 14:20

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13312	Instrument:	ME-ICP
Calibration:	1133001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1E10013-BLK1	051211B-022	05/12/11 14:25
Blank	1E10013-BLK1	051211B-022	05/12/11 14:25
LCS	1E10013-BS1	051211B-023	05/12/11 14:29
LCS	1E10013-BS1	051211B-023	05/12/11 14:29
GW0067	1104307-01	051211B-026	05/12/11 14:45
GW0067	1104307-02	051211B-027	05/12/11 14:50
GW0068	1104307-03	051211B-028	05/12/11 14:54
GW0068	1104307-04	051211B-029	05/12/11 14:59
Calibration Check	1E13312-CCV3	051211B-038	05/12/11 15:45
Calibration Check	1E13312-CCV3	051211B-038	05/12/11 15:45
Calibration Blank	1E13312-CCB3	051211B-039	05/12/11 15:52
Calibration Blank	1E13312-CCB3	051211B-039	05/12/11 15:52
Calibration Check	1E13312-CCV4	051211B-050	05/12/11 16:45
Calibration Check	1E13312-CCV4	051211B-050	05/12/11 16:45
Calibration Blank	1E13312-CCB4	051211B-051	05/12/11 16:52
Calibration Blank	1E13312-CCB4	051211B-051	05/12/11 16:52
Blank	1E11024-BLK1	051211B-052	05/12/11 16:57
Blank	1E11024-BLK1	051211B-052	05/12/11 16:57
LCS	1E11024-BS1	051211B-053	05/12/11 17:01
LCS	1E11024-BS1	051211B-053	05/12/11 17:01
Calibration Check	1E13312-CCV5	051211B-068	05/12/11 18:15
Calibration Check	1E13312-CCV5	051211B-068	05/12/11 18:15
Calibration Blank	1E13312-CCB5	051211B-069	05/12/11 18:22
Calibration Blank	1E13312-CCB5	051211B-069	05/12/11 18:22
GW0043	1105015-01	051211B-073	05/12/11 18:41
GW0043	1105015-02	051211B-074	05/12/11 18:46
Calibration Check	1E13312-CCV6	051211B-084	05/12/11 19:35
Calibration Check	1E13312-CCV6	051211B-084	05/12/11 19:35
Calibration Blank	1E13312-CCB6	051211B-085	05/12/11 19:42
Calibration Blank	1E13312-CCB6	051211B-085	05/12/11 19:42

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1131001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/11/11 11:22 5/11/11 11:54

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	1.9342E-05	10000	1.9879E-05			500000	1.9879E-05		
Antimony	0	0	100	0.0008155	1000	8.4839E-04					10000	8.5861E-04
Arsenic	0	0	100	0.0004023	1000	4.2245E-04					10000	4.1915E-04
Barium	0	0	50	0.0131218	1000	0.012993	5000	0.0135302				
Beryllium	0	0	100	0.0027864	1000	0.0027511					10000	0.0026224
Boron	0	0	50	0.0000146	1000	1.513E-05					5000	1.4712E-05
Cadmium	0	0	100	0.016191	1000	0.015875					10000	0.015106
Calcium	0	0	1100	4.140909E-05	50000	4.059E-05					10000	
Chromium	0	0	100	0.0000385	1000	3.709E-05					10000	3.7834E-05
Cobalt	0	0	100	0.0065512	1000	0.0064301					10000	0.0066678
Copper	0	0	100	0.0000861	1000	8.173E-05					10000	8.115599E-05
Iron	0	0	5100	1.433922E-05	10000	1.372E-05			500000	1.3311E-05	10000	
Lead	0	0	100	0.0014553	1000	0.0014367					10000	0.0014767
Magnesium	0	0	5100		50000	1.144E-06			500000	1.20712E-06	10000	
Manganese	0	0	100	0.0002566	1000	2.4898E-04	10000	2.3836E-04			10000	
Molybdenum	0	0	100	0.0046617	1000	0.0046844					10000	0.0046897
Nickel	0	0	100	0.0039356	1000	0.0037848					10000	0.0038202
Potassium	0	0	1000	9.359999E-06	10000	1.0719E-05						
Selenium	0	0	100	0.0005255	1000	0.0005246					10000	5.2346E-04
Silver	0	0	20	0.0000565	500	5.382E-05	2000	5.496E-05				
Sodium	0	0	1000		50000	4.5238E-05						
Strontium	0	0	100	0.00172	1000	0.001684					10000	0.001667
Thallium	0	0	100	0.0008047	1000	8.2382E-04					10000	8.4633E-04
Tin	0	0	50	0.0013958	1000	0.0014074					5000	0.0014334
Titanium	0	0	100	0.0002216	1000	0.0002138					10000	2.1717E-04
Vanadium	0	0	100	0.0000475	1000	4.587E-05					10000	4.5757E-05
Zinc	0	0	100	0.0062736	1000	0.0061656					10000	0.0061192
Aluminum	0	0	5000	1.9342E-05	10000	1.9879E-05			500000	1.9879E-05		
Antimony	0	0	100	0.0008155	1000	8.4839E-04					10000	8.5861E-04
Arsenic	0	0	100	0.0004023	1000	4.2245E-04					10000	4.1915E-04
Barium	0	0	50	0.0131218	1000	0.012993	5000	0.0135302				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1131001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/11/11_11:22 5/11/11_11:54

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	0.0027864	1000	0.0027511					10000	0.0026224
Boron	0	0	50	0.0000146	1000	1.513E-05					5000	1.4712E-05
Cadmium	0	0	100	0.016191	1000	0.015875					10000	0.015106
Calcium	0	0	1100	4.140909E-05	50000	4.059E-05					10000	
Chromium	0	0	100	0.0000385	1000	3.709E-05					10000	3.7834E-05
Cobalt	0	0	100	0.0065512	1000	0.0064301					10000	0.0066678
Copper	0	0	100	0.0000861	1000	8.173E-05					10000	8.115599E-05
Iron	0	0	5100	1.433922E-05	10000	1.372E-05			500000	1.3311E-05	10000	
Lead	0	0	100	0.0014553	1000	0.0014367					10000	0.0014767
Magnesium	0	0	5100		50000	1.144E-06			500000	1.20712E-06	10000	
Manganese	0	0	100	0.0002566	1000	2.4898E-04	10000	2.3836E-04			10000	
Molybdenum	0	0	100	0.0046617	1000	0.0046844					10000	0.0046897
Nickel	0	0	100	0.0039356	1000	0.0037848					10000	0.0038202
Potassium	0	0	1000	9.359999E-06	10000	1.0719E-05						
Selenium	0	0	100	0.0005255	1000	0.0005246					10000	5.2346E-04
Silver	0	0	20	0.0000565	500	5.382E-05	2000	5.496E-05				
Sodium	0	0	1000		50000	4.5238E-05						
Strontium	0	0	100	0.00172	1000	0.001684					10000	0.001667
Thallium	0	0	100	0.0008047	1000	8.2382E-04					10000	8.4633E-04
Tin	0	0	50	0.0013958	1000	0.0014074					5000	0.0014334
Titanium	0	0	100	0.0002216	1000	0.0002138					10000	2.1717E-04
Vanadium	0	0	100	0.0000475	1000	4.587E-05					10000	4.5757E-05
Zinc	0	0	100	0.0062736	1000	0.0061656					10000	0.0061192

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1131001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/11/11 11:22 5/11/11 11:54

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	3.9386E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.166E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0728E-05										
Selenium												
Silver												
Sodium	100000	4.4789E-05	500000	4.377E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1131001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/11/11 11:22 5/11/11 11:54

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	3.9386E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.166E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0728E-05										
Selenium												
Silver												
Sodium	100000	4.4789E-05	500000	4.377E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1131001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/11/11 11:22 5/11/11 11:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.4775E-05	66.68868	11.44308	188.0327	0.9999999		0.998	
Antimony	6.30625E-04	66.73043	9.9939	193.5678	0.9999992		0.998	
Arsenic	3.10975E-04	66.72703	7.10804	189.0102	0.9999988		0.998	
Barium	9.91125E-03	66.70669	2.864415	185.335	0.9999328		0.998	
Beryllium	2.039975E-03	66.75613	10.17041	189.7805	0.9999782		0.998	
Boron	1.11105E-05	66.69826	3.660032	178.7732	0.9999656		0.998	
Cadmium	0.011793	66.77853	6.12928	191.968	0.9999768		0.998	
Calcium	3.034627E-05	66.72288	4.513325	176.5317	0.999991		0.998	
Chromium	2.8356E-05	66.6976	4.08288	175.4925	0.9999958		0.998	
Cobalt	4.912275E-03	66.69593	1.070707	152.8403	0.9999875		0.998	
Copper	6.22465E-05	66.76095	0.5909475	62.48511	1		0.998	
Iron	1.034255E-05	66.79184	12.29809	190.7454	0.9999995		0.998	
Lead	1.092175E-03	66.68346	101.3517	199.2656	0.9999929		0.998	
Magnesium	8.7928E-07	66.73302	121.1997	199.2472	0.999951		0.998	
Manganese	1.85985E-04	66.78787	13.90288	191.9298	0.9999826		0.998	
Molybdenum	3.50895E-03	66.66757	3.701425	186.1234	1		0.998	
Nickel	2.88515E-03	66.70401	1.163307	158.2684	0.9999986		0.998	
Potassium	7.70175E-06	67.18702	2.09232	133.5227	0.9999985		0.998	
Selenium	3.9339E-04	66.66701	8.497343	189.2054	1		0.998	
Silver	4.132E-05	66.71962	2.240815	159.7787	0.9999667		0.998	
Sodium	3.344925E-05	66.69195	2.62252	127.3953	0.9999781		0.998	
Strontium	1.26775E-03	66.68944	2.6322	140.7063	0.9999991		0.998	
Thallium	6.187125E-04	66.72336	2.01529	134.0063	0.9999944		0.998	
Tin	1.05915E-03	66.68319	9.67262	192.9892	0.9999868		0.998	
Titanium	1.631425E-04	66.69541	1.40844	111.1168	0.9999971		0.998	
Vanadium	3.478175E-05	66.70597	3.234057	169.7502	0.9999999		0.998	
Zinc	0.0046396	66.68124	19.1376	196.401	0.9999995		0.998	
Aluminum	1.4775E-05	66.68868	11.44308	188.0327	0.9999999		0.998	
Antimony	6.30625E-04	66.73043	9.9939	193.5678	0.9999992		0.998	
Arsenic	3.10975E-04	66.72703	7.10804	189.0102	0.9999988		0.998	
Barium	9.91125E-03	66.70669	2.864415	185.335	0.9999328		0.998	
Beryllium	2.039975E-03	66.75613	10.17041	189.7805	0.9999782		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1131001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	5/11/11 11:22	5/11/11 11:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.11105E-05	66.69826	3.660032	178.7732	0.9999656		0.998	
Cadmium	0.011793	66.77853	6.12928	191.968	0.9999768		0.998	
Calcium	3.034627E-05	66.72288	4.513325	176.5317	0.999991		0.998	
Chromium	2.8356E-05	66.6976	4.08288	175.4925	0.9999958		0.998	
Cobalt	4.912275E-03	66.69593	1.070707	152.8403	0.9999875		0.998	
Copper	6.22465E-05	66.76095	0.5909475	62.48511	1		0.998	
Iron	1.034255E-05	66.79184	12.29809	190.7454	0.9999995		0.998	
Lead	1.092175E-03	66.68346	101.3517	199.2656	0.9999929		0.998	
Magnesium	8.7928E-07	66.73302	121.1997	199.2472	0.999951		0.998	
Manganese	1.85985E-04	66.78787	13.90288	191.9298	0.9999826		0.998	
Molybdenum	3.50895E-03	66.66757	3.701425	186.1234	1		0.998	
Nickel	2.88515E-03	66.70401	1.163307	158.2684	0.9999986		0.998	
Potassium	7.70175E-06	67.18702	2.09232	133.5227	0.9999985		0.998	
Selenium	3.9339E-04	66.66701	8.497343	189.2054	1		0.998	
Silver	4.132E-05	66.71962	2.240815	159.7787	0.9999667		0.998	
Sodium	3.344925E-05	66.69195	2.62252	127.3953	0.9999781		0.998	
Strontium	1.26775E-03	66.68944	2.6322	140.7063	0.9999991		0.998	
Thallium	6.187125E-04	66.72336	2.01529	134.0063	0.9999944		0.998	
Tin	1.05915E-03	66.68319	9.67262	192.9892	0.9999868		0.998	
Titanium	1.631425E-04	66.69541	1.40844	111.1168	0.9999971		0.998	
Vanadium	3.478175E-05	66.70597	3.234057	169.7502	0.9999999		0.998	
Zinc	0.0046396	66.68124	19.1376	196.401	0.9999995		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1133001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/12/11_11:32 5/12/11_12:04

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	1.8166E-05	10100	1.863663E-05			500000	1.85984E-05		
Antimony	0	0	100	0.0008175	1010	8.427525E-04					10000	8.5419E-04
Arsenic	0	0	100	0.0003917	1010	4.102773E-04					10000	0.0004091
Barium	0	0	50	0.012889	1010	1.264653E-02	5000	0.0132586				
Beryllium	0	0	100	0.0027502	1010	2.795346E-03					10000	0.0026639
Boron	0	0	50	0.0000142	1010	1.484158E-05					5000	1.4596E-05
Cadmium	0	0	100	0.016353	1010	1.588713E-02					10000	0.015224
Calcium	0	0	1100	4.102727E-05	50500	4.058218E-05					10000	
Chromium	0	0	100	0.0000385	1010	3.79604E-05					10000	3.8177E-05
Cobalt	0	0	100	0.0066724	1010	6.490693E-03					10000	0.0066862
Copper	0	0	100	8.500001E-05	1010	8.112872E-05					10000	8.0435E-05
Iron	0	0	5100	1.466863E-05	10100	1.454356E-05			500000	1.40264E-05	10000	
Lead	0	0	100	0.0014597	1010	1.426634E-03					10000	0.0014685
Magnesium	0	0	5100		50500	1.607921E-06			500000	1.72504E-06	10000	
Manganese	0	0	100	0.0002535	1010	0.000248	10000	0.0002377			10000	
Molybdenum	0	0	100	0.0045011	1010	4.48802E-03					10000	0.0045304
Nickel	0	0	100	0.0038618	1010	3.663366E-03					10000	0.0037154
Potassium	0	0	1000	8.360001E-06	10100	9.574257E-06						
Selenium	0	0	100	0.0005287	1010	5.183663E-04					10000	5.1214E-04
Silver	0	0	20	0.0000565	505	5.289109E-05	2000	5.4065E-05				
Sodium	0	0	1000		50500	4.173465E-05						
Strontium	0	0	100	0.001617	1010	1.627723E-03					10000	0.001608
Thallium	0	0	100	0.0008263	1010	8.399109E-04					10000	8.5488E-04
Tin	0	0	50	0.0014152	10	0.14085					5000	1.41018E-03
Titanium	0	0	100	0.0002149	1010	2.115545E-04					10000	2.1559E-04
Vanadium	0	0	100	0.0000463	1010	4.554456E-05					10000	4.5131E-05
Zinc	0	0	100	0.0065022	1010	6.346733E-03					10000	0.006335
Aluminum	0	0	5000	1.8166E-05	10100	1.863663E-05			500000	1.85984E-05		
Antimony	0	0	100	0.0008175	1010	8.427525E-04					10000	8.5419E-04
Arsenic	0	0	100	0.0003917	1010	4.102773E-04					10000	0.0004091
Barium	0	0	50	0.012889	1010	1.264653E-02	5000	0.0132586				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1133001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/12/11_11:32 5/12/11_12:04

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	0.0027502	1010	2.795346E-03					10000	0.0026639
Boron	0	0	50	0.0000142	1010	1.484158E-05					5000	1.4596E-05
Cadmium	0	0	100	0.016353	1010	1.588713E-02					10000	0.015224
Calcium	0	0	1100	4.102727E-05	50500	4.058218E-05					10000	
Chromium	0	0	100	0.0000385	1010	3.79604E-05					10000	3.8177E-05
Cobalt	0	0	100	0.0066724	1010	6.490693E-03					10000	0.0066862
Copper	0	0	100	8.500001E-05	1010	8.112872E-05					10000	8.0435E-05
Iron	0	0	5100	1.466863E-05	10100	1.454356E-05			500000	1.40264E-05	10000	
Lead	0	0	100	0.0014597	1010	1.426634E-03					10000	0.0014685
Magnesium	0	0	5100		50500	1.607921E-06			500000	1.72504E-06	10000	
Manganese	0	0	100	0.0002535	1010	0.000248	10000	0.0002377			10000	
Molybdenum	0	0	100	0.0045011	1010	4.48802E-03					10000	0.0045304
Nickel	0	0	100	0.0038618	1010	3.663366E-03					10000	0.0037154
Potassium	0	0	1000	8.360001E-06	10100	9.574257E-06						
Selenium	0	0	100	0.0005287	1010	5.183663E-04					10000	5.1214E-04
Silver	0	0	20	0.0000565	505	5.289109E-05	2000	5.4065E-05				
Sodium	0	0	1000		50500	4.173465E-05						
Strontium	0	0	100	0.001617	1010	1.627723E-03					10000	0.001608
Thallium	0	0	100	0.0008263	1010	8.399109E-04					10000	8.5488E-04
Tin	0	0	50	0.0014152	10	0.14085					5000	1.41018E-03
Titanium	0	0	100	0.0002149	1010	2.115545E-04					10000	2.1559E-04
Vanadium	0	0	100	0.0000463	1010	4.554456E-05					10000	4.5131E-05
Zinc	0	0	100	0.0065022	1010	6.346733E-03					10000	0.006335

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1133001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/12/11 11:32 5/12/11 12:04

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	3.9414E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.6716E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	9.94E-06										
Selenium												
Silver												
Sodium	100000	4.2159E-05	500000	4.2392E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1133001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/12/11 11:32 5/12/11 12:04

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	3.9414E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.6716E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	9.94E-06										
Selenium												
Silver												
Sodium	100000	4.2159E-05	500000	4.2392E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1133001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	5/12/11 11:32 5/12/11 12:04

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.385026E-05	66.68446	2.840268	191.3867	0.9999999		0.998	
Antimony	6.286106E-04	66.71125	6.83471	187.3291	0.9999989		0.998	
Arsenic	3.027693E-04	66.72567	1.361285	124.1625	0.9999995		0.998	
Barium	9.698534E-03	66.71714	3.09574	183.4884	0.9999068		0.998	
Beryllium	2.052362E-03	66.71958	13.71407	196.4989	0.9999763		0.998	
Boron	1.09094E-05	66.71065	9.11206	191.3231	0.9999869		0.998	
Cadmium	1.186603E-02	66.78089	1.456402	143.6908	0.999983		0.998	
Calcium	3.025586E-05	66.70458	1.379765	129.1356	0.9999913		0.998	
Chromium	2.865935E-05	66.67115	13.49355	193.8298	0.9999996		0.998	
Cobalt	4.962323E-03	66.69084	2.04177	163.5824	0.9999911		0.998	
Copper	6.164093E-05	66.74625	0.726805	70.21241	0.9999999		0.998	
Iron	1.080965E-05	66.71624	14.63828	193.9585	0.9999996		0.998	
Lead	1.088708E-03	66.68724	6.61817	182.209	0.9999916		0.998	
Magnesium	1.25114E-06	66.7764	11.26707	188.7613	0.9999456		0.998	
Manganese	0.0001848	66.76079	10.94511	192.6232	0.9999829		0.998	
Molybdenum	3.37988E-03	66.66873	8.218615	191.7407	0.9999991		0.998	
Nickel	2.810142E-03	66.73365	1.235775	134.257	0.999997		0.998	
Potassium	6.968564E-06	67.36736	1.668805	156.2805	0.9999951		0.998	
Selenium	3.898016E-04	66.68968	7.79294	186.222	0.9999992		0.998	
Silver	4.086402E-05	66.76806	11.52527	192.717	0.9999625		0.998	
Sodium	3.157141E-05	66.67224	2.469678	173.5595	0.9999974		0.998	
Strontium	1.213181E-03	66.66996	0.8131	129.9227	0.9999985		0.998	
Thallium	6.302727E-04	66.69238	6.77463	179.7762	0.9999976		0.998	
Tin	3.591884E-02	194.7648	13.04713	190.7664	0.9613883		0.998	*
Titanium	1.605111E-04	66.67571	3.588658	192.4129	0.9999962		0.998	
Vanadium	3.424389E-05	66.68164	4.12381	172.1074	0.9999994		0.998	
Zinc	4.795983E-03	66.6856	42.46727	198.2283	0.9999999		0.998	
Aluminum	1.385026E-05	66.68446	2.840268	191.3867	0.9999999		0.998	
Antimony	6.286106E-04	66.71125	6.83471	187.3291	0.9999989		0.998	
Arsenic	3.027693E-04	66.72567	1.361285	124.1625	0.9999995		0.998	
Barium	9.698534E-03	66.71714	3.09574	183.4884	0.9999068		0.998	
Beryllium	2.052362E-03	66.71958	13.71407	196.4989	0.9999763		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_010	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1133001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	5/12/11 11:32	5/12/11 12:04

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.09094E-05	66.71065	9.11206	191.3231	0.9999869		0.998	
Cadmium	1.186603E-02	66.78089	1.456402	143.6908	0.999983		0.998	
Calcium	3.025586E-05	66.70458	1.379765	129.1356	0.9999913		0.998	
Chromium	2.865935E-05	66.67115	13.49355	193.8298	0.9999996		0.998	
Cobalt	4.962323E-03	66.69084	2.04177	163.5824	0.9999911		0.998	
Copper	6.164093E-05	66.74625	0.726805	70.21241	0.9999999		0.998	
Iron	1.080965E-05	66.71624	14.63828	193.9585	0.9999996		0.998	
Lead	1.088708E-03	66.68724	6.61817	182.209	0.9999916		0.998	
Magnesium	1.25114E-06	66.7764	11.26707	188.7613	0.9999456		0.998	
Manganese	0.0001848	66.76079	10.94511	192.6232	0.9999829		0.998	
Molybdenum	3.37988E-03	66.66873	8.218615	191.7407	0.9999991		0.998	
Nickel	2.810142E-03	66.73365	1.235775	134.257	0.999997		0.998	
Potassium	6.968564E-06	67.36736	1.668805	156.2805	0.9999951		0.998	
Selenium	3.898016E-04	66.68968	7.79294	186.222	0.9999992		0.998	
Silver	4.086402E-05	66.76806	11.52527	192.717	0.9999625		0.998	
Sodium	3.157141E-05	66.67224	2.469678	173.5595	0.9999974		0.998	
Strontium	1.213181E-03	66.66996	0.8131	129.9227	0.9999985		0.998	
Thallium	6.302727E-04	66.69238	6.77463	179.7762	0.9999976		0.998	
Tin	3.591884E-02	194.7648	13.04713	190.7664	0.9613883		0.998	*
Titanium	1.605111E-04	66.67571	3.588658	192.4129	0.9999962		0.998	
Vanadium	3.424389E-05	66.68164	4.12381	172.1074	0.9999994		0.998	
Zinc	4.795983E-03	66.6856	42.46727	198.2283	0.9999999		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0061

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-01
Sampled:	04/26/11 11:24	Received:	04/27/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N	0.427	0.253	0.0100	1.51	1		E353.2-SM4500NO2B	[CALC]	05/09/11 14:57
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E16006	05/17/11 10:14
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1E02005	05/02/11 14:09
10-09-3	Alkalinity, Bicarbonate (as CACO3)	116	1.00	1.00	1.00	1		SM2320B	1E10007	05/10/11 14:07
16887-00-6	Chloride	22.1	0.170	0.330	0.500	1		E300.0	1E05023	05/05/11 21:22
NA	Nitrate/Nitrite as N	0.427	0.250	0.750	1.50	1	J	E353.2	1E09008	05/09/11 14:57
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E10007	05/10/11 14:07
14797-65-0	Nitrite as N		0.00330	0.0100	0.0100	1	U	SM4500NO2B	1E05018	04/27/11 18:38
14808-79-8	Sulfate as SO4	49.8	0.330	1.00	2.00	1		E300.0	1E05023	05/05/11 21:22

ANALYSIS DATA SHEET

GW0062

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104286-03
Sampled:	04/26/11 14:54	Received:	04/27/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N	0.798	0.253	0.0200	1.51	1		E353.2-SM4500NO2B	[CALC]	05/09/11 14:58
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E16006	05/17/11 10:15
18496-25-8	Sulfide		0.800	2.00	4.00	0.8	U	SM4500S2CF	1E02005	05/02/11 14:09
10-09-3	Alkalinity, Bicarbonate (as CACO3)	99.2	1.00	1.00	1.00	1		SM2320B	1E10007	05/10/11 14:52
16887-00-6	Chloride	70.5	0.170	0.330	0.500	1		E300.0	1E05023	05/05/11 21:40
NA	Nitrate/Nitrite as N	0.932	0.250	0.750	1.50	1	J	E353.2	1E09008	05/09/11 14:58
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E10007	05/10/11 14:52
14797-65-0	Nitrite as N	0.134	0.00330	0.0100	0.0100	1		SM4500NO2B	1E05018	04/27/11 18:39
14808-79-8	Sulfate as SO4	58.9	0.330	1.00	2.00	1		E300.0	1E05023	05/05/11 21:40

ANALYSIS DATA SHEET

GW0063

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Ground Water
Sampled: 04/26/11 14:54
% Solids: 0.00

SDG: Kirtland_010
Project: Kirtland AFB 2011
Laboratory ID: 1104286-05
Received: 04/27/11 09:00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N	0.751	0.253	0.0300	1.51	1		E353.2-SM4500NO2B	[CALC]	05/09/11 15:00
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E16006	05/17/11 10:16
18496-25-8	Sulfide		0.800	2.00	4.00	0.8	U	SM4500S2CF	1E02005	05/02/11 14:10
10-09-3	Alkalinity, Bicarbonate (as CACO3)	108	1.00	1.00	1.00	1		SM2320B	1E10007	05/10/11 15:26
16887-00-6	Chloride	70.1	0.170	0.330	0.500	1		E300.0	1E05023	05/05/11 21:57
NA	Nitrate/Nitrite as N	0.874	0.250	0.750	1.50	1	J	E353.2	1E09008	05/09/11 15:00
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E10007	05/10/11 15:26
14797-65-0	Nitrite as N	0.122	0.00330	0.0100	0.0100	1		SM4500NO2B	1E05018	04/27/11 18:39
14808-79-8	Sulfate as SO4	58.8	0.330	1.00	2.00	1		E300.0	1E05023	05/05/11 21:57

ANALYSIS DATA SHEET

GW0058

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 04/27/11 12:12
% Solids: 0.00

SDG: Kirtland_010
Project: Kirtland AFB 2011
Laboratory ID: 1104289-01
Received: 04/28/11 09:00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N	0.417	0.253	0.0400	1.51	1		E353.2-SM4500NO2B	[CALC]	05/09/11 15:19
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E16006	05/17/11 10:17
18496-25-8	Sulfide		0.800	2.00	4.00	0.8	U	SM4500S2CF	1E04018	05/04/11 19:28
10-09-3	Alkalinity, Bicarbonate (as CACO3)	116	1.00	1.00	1.00	1		SM2320B	1E11021	05/11/11 14:23
16887-00-6	Chloride	11.5	0.170	0.330	0.500	1		E300.0	1E05023	05/05/11 22:49
NA	Nitrate/Nitrite as N	0.417	0.250	0.750	1.50	1	J	E353.2	1E09010	05/09/11 15:19
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E11021	05/11/11 14:23
14797-65-0	Nitrite as N		0.00330	0.0100	0.0100	1	U	SM4500NO2B	1E05020	04/28/11 16:58
14808-79-8	Sulfate as SO4	34.4	0.330	1.00	2.00	1		E300.0	1E05023	05/05/11 22:49

ANALYSIS DATA SHEET

GW0067

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1104307-01
Sampled:	04/28/11 11:25	Received:	04/29/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N		0.253	0.0500	1.51	1		E353.2-SM4500NO2B	[CALC]	05/09/11 15:23
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E16006	05/17/11 10:18
18496-25-8	Sulfide		0.678	1.69	3.39	0.678	U	SM4500S2CF	1E04018	05/04/11 19:29
10-09-3	Alkalinity, Bicarbonate (as CACO3)	95.0	1.00	1.00	1.00	1		SM2320B	1E11021	05/11/11 15:15
16887-00-6	Chloride	11.8	0.170	0.330	0.500	1		E300.0	1E05023	05/05/11 23:07
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1E09010	05/09/11 15:23
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E11021	05/11/11 15:15
14797-65-0	Nitrite as N		0.00330	0.0100	0.0100	1	U	SM4500NO2B	1E05021	04/29/11 14:59
14808-79-8	Sulfate as SO4	44.1	0.330	1.00	2.00	1		E300.0	1E05023	05/05/11 23:07

ANALYSIS DATA SHEET

GW0068

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Ground Water
Sampled: 04/28/11 14:40
% Solids: 0.00

SDG: Kirtland_010
Project: Kirtland AFB 2011
Laboratory ID: 1104307-03
Received: 04/29/11 09:00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N	4.92	0.253	0.0600	1.51	1		E353.2-SM4500NO2B	[CALC]	05/09/11 15:24
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E16006	05/17/11 10:19
18496-25-8	Sulfide		0.678	1.69	3.39	0.678	U	SM4500S2CF	1E04018	05/04/11 19:29
10-09-3	Alkalinity, Bicarbonate (as CACO3)	76.0	1.00	1.00	1.00	1		SM2320B	1E11021	05/11/11 15:23
16887-00-6	Chloride	98.4	0.170	0.330	0.500	1		E300.0	1E05023	05/05/11 23:24
NA	Nitrate/Nitrite as N	4.92	0.250	0.750	1.50	1		E353.2	1E09010	05/09/11 15:24
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E11021	05/11/11 15:23
14797-65-0	Nitrite as N		0.00330	0.0100	0.0100	1	U	SM4500NO2B	1E05021	04/29/11 15:00
14808-79-8	Sulfate as SO4	85.0	0.330	1.00	2.00	1		E300.0	1E05023	05/05/11 23:24

ANALYSIS DATA SHEET

GW0043

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1105015-01
Sampled:	04/29/11 10:58	Received:	04/30/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
14797-55-8	Nitrate as N	3.14	0.253	0.0700	1.51	1		E353.2-SM4500NO2B	[CALC]	05/19/11 16:44
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1E19009	05/20/11 13:01
18496-25-8	Sulfide		0.800	2.00	4.00	0.8	U	SM4500S2CF	1E04018	05/04/11 19:30
10-09-3	Alkalinity, Bicarbonate (as CACO3)	76.8	1.00	1.00	1.00	1		SM2320B	1E12929	05/12/11 14:02
16887-00-6	Chloride	99.6	0.170	0.330	0.500	1		E300.0	1E05023	05/06/11 00:34
NA	Nitrate/Nitrite as N	3.14	0.250	0.750	1.50	1		E353.2	1E19013	05/19/11 16:44
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1E12929	05/12/11 14:02
14797-65-0	Nitrite as N		0.00330	0.0100	0.0100	1	U	SM4500NO2B	1E05022	04/30/11 12:45
14808-79-8	Sulfate as SO4	159	0.330	1.00	2.00	1		E300.0	1E05023	05/06/11 00:34

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1129005
Sequence: 1E12915

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E12915-ICV1	Nitrate/Nitrite as N	1.200	1.196	99.7	mg/L	+/- 10.00%
1E12915-CCV1	Nitrate/Nitrite as N	1.200	1.211	101	mg/L	+/- 10.00%
1E12915-CCV2	Nitrate/Nitrite as N	1.200	1.220	102	mg/L	+/- 10.00%
1E12915-CCV3	Nitrate/Nitrite as N	1.200	1.244	104	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_010
Project: Kirtland AFB 2011
Calibration: 1137002
Sequence: 1E13707

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E13707-ICV1	Ammonia as N	2.000	2.137	107	mg/L	+/- 10.00%
1E13707-CCV1	Ammonia as N	2.000	2.169	108	mg/L	+/- 10.00%
1E13707-CCV2	Ammonia as N	2.000	2.191	110	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1142002
Sequence: 1E13917

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E13917-ICV1	Nitrate/Nitrite as N	1.200	1.174	97.8	mg/L	+/- 10.00%
1E13917-CCV1	Nitrate/Nitrite as N	1.200	1.136	94.7	mg/L	+/- 10.00%
1E13917-CCV2	Nitrate/Nitrite as N	1.200	1.111	92.6	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_010
Project: Kirtland AFB 2011
Calibration: 1142001
Sequence: 1E14014

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14014-ICV1	Ammonia as N	2.000	2.151	108	mg/L	+/- 10.00%
1E14014-CCV1	Ammonia as N	2.000	2.100	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NO2B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Gensys

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1140003
Sequence: 1E14017

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14017-ICV1	Nitrite as N	0.1000	0.1015	101	mg/L	+/- 10.00%
1E14017-CCV1	Nitrite as N	0.1000	0.1018	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NO2B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Gensys

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1140004
Sequence: 1E14018

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14018-CCV1	Nitrite as N	0.1000	0.1031	103	mg/L	+/- 10.00%
1E14018-CCV2	Nitrite as N	0.1000	0.1031	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NO2B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Gensys

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1140005
Sequence: 1E14022

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14022-ICV1	Nitrite as N	0.1000	0.09958	99.6	mg/L	+/- 10.00%
1E14022-CCV1	Nitrite as N	0.1000	0.09929	99.3	mg/L	+/- 10.00%
1E14022-CCV2	Nitrite as N	0.1000	0.1018	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NO2B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Gensys

SDG: Kirtland_010
Project: Kirtland AFB 2011
Calibration: 1141001
Sequence: 1E14103

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14103-ICV1	Nitrite as N	0.1000	0.09893	98.9	mg/L	+/- 10.00%
1E14103-CCV1	Nitrite as N	0.1000	0.1011	101	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_010
Project: Kirtland AFB 2011
Calibration: 1141003
Sequence: 1E14105

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14105-ICV1	Chloride	4.800	5.157	107	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	24.64	103	mg/L	+/- 10.00%
1E14105-CCV1	Chloride	25.00	25.51	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.48	102	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_010
Project: Kirtland AFB 2011
Calibration: 1141003
Sequence: 1E14107

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E14107-CCV1	Chloride	25.00	25.28	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.26	101	mg/L	+/- 10.00%
1E14107-CCV2	Chloride	25.00	24.86	99.5	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.08	100	mg/L	+/- 10.00%
1E14107-CCV3	Chloride	25.00	25.18	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.45	102	mg/L	+/- 10.00%
1E14107-CCV4	Chloride	25.00	24.75	99.0	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.78	99.1	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1141003

Sequence: 1E14105

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1E14105-CRL1	Chloride	0.5000	0.4970	99.4	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.4610	92.2	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1141003

Sequence: 1E14107

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1E14107-CRL1	Chloride	0.5000	0.5060	101	mg/L	75 - 125
1E14107-CRL2	Sulfate as SO4	1.000	0.8420	84.2	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E02005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E02005-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E04018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E04018-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E05018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E05018-BLK1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

METHOD BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E05020

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E05020-BLK1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

METHOD BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E05021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E05021-BLK1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

METHOD BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E05022

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E05022-BLK1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E05023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E05023-BLK1	Chloride	0.763	0.170	0.500	mg/L		E300.0
	Sulfate as SO4	0.0550	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E09008

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E09008-BLK1	Nitrate/Nitrite as N	0.0111	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E09010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E09010-BLK1	Nitrate/Nitrite as N	0.00367	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E10007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E10007-BLK1	Alkalinity, Total (as CACO3)	-0.760	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E11021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E11021-BLK1	Alkalinity, Total (as CACO3)	-0.760	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E12929

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E12929-BLK1	Alkalinity, Total (as CACO3)	-0.760	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E16006

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E16006-BLK1	Ammonia as N	0.0128	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E19009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E19009-BLK1	Ammonia as N	-0.0588	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1E19013

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E19013-BLK1	Nitrate/Nitrite as N	0.000709	0.0500	0.300	mg/L	U	E353.2

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E12915
Calibration: 1129005
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E12915-ICB1	Nitrate/Nitrite as N	-0.01290	0.0500	0.300	mg/L	U	E353.2
1E12915-CCB1	Nitrate/Nitrite as N	-0.0132	0.0500	0.300	mg/L	U	E353.2
1E12915-CCB2	Nitrate/Nitrite as N	-0.00492	0.0500	0.300	mg/L	U	E353.2
1E12915-CCB3	Nitrate/Nitrite as N	0.00416	0.0500	0.300	mg/L	U	E353.2

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E13707
Calibration: 1137002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E13707-ICB1	Ammonia as N	-0.005697	0.110	0.300	mg/L	U	SM4500NH3BG
1E13707-CCB1	Ammonia as N	-0.0121	0.110	0.300	mg/L	U	SM4500NH3BG
1E13707-CCB2	Ammonia as N	-0.0152	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E13917
Calibration: 1142002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E13917-ICB1	Nitrate/Nitrite as N	0.003955	0.0500	0.300	mg/L	U	E353.2
1E13917-CCB1	Nitrate/Nitrite as N	0.00563	0.0500	0.300	mg/L	U	E353.2
1E13917-CCB2	Nitrate/Nitrite as N	0.00644	0.0500	0.300	mg/L	U	E353.2

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14014
Calibration: 1142001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14014-ICB1	Ammonia as N	-0.008778	0.110	0.300	mg/L	U	SM4500NH3BG
1E14014-CCB1	Ammonia as N	-0.0211	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14017
Calibration: 1140003
Instrument ID: WC-Gensys

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14017-CCB1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14018
Calibration: 1140004
Instrument ID: WC-Gensys

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14018-CCB1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B
1E14018-CCB2	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14022
Calibration: 1140005
Instrument ID: WC-Gensys

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14022-CCB1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B
1E14022-CCB2	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

BLANKS
SM4500NO2B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14103
Calibration: 1141001
Instrument ID: WC-Gensys

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14103-CCB1	Nitrite as N	0.00	0.00330	0.0100	mg/L	U	SM4500NO2B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14105
Calibration: 1141003
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14105-ICB1	Chloride	0.1880	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0
1E14105-CCB1	Chloride	0.479	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.0590	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E14107
Calibration: 1141003
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E14107-CCB1	Chloride	0.285	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1E14107-CCB2	Chloride	0.318	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1E14107-CCB3	Chloride	0.417	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.0580	0.330	2.00	mg/L	U	E300.0
1E14107-CCB4	Chloride	0.492	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NO2B

GW0063

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1E05018

% Solids:

Source Sample Name: **1104286-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrite as N	0.1111	0.1222	0.2151	83.6		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrite as N	0.1111	0.2176	85.9	1.16		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0068

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1E05023

% Solids:

Source Sample Name: **1104307-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	98.39	126.0	99.4		80 - 120
Sulfate as SO4	27.78	85.05	112.1	97.3		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	126.1	99.8	0.0838		20	80 - 120
Sulfate as SO4	27.78	111.8	96.1	0.286		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0058

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1E09010

% Solids:

Source Sample Name: **1104289-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	0.4166	2.886	98.8		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.888	98.9	0.0693		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0043

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1E19013

% Solids:

Source Sample Name: **1105015-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	3.142	5.425	91.3		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	5.355	88.5	1.30		20	80 - 120

GW0068

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1E05023
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0068

SDG: Kirtland_010
Project: Kirtland AFB 2011
Laboratory ID: 1E05023-DUP2
Lab Source ID: 1104307-03
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	98.4 B	97.31 B	1.10		E300.0
Sulfate as SO4	20	85.0	83.85	1.42		E300.0

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E02005	Laboratory ID:	1E02005-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1150	81.4	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1413	1167	82.6	1.44	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E04018	Laboratory ID:	1E04018-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1150	81.4	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1413	1150	81.4	0.00	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05018	Laboratory ID:	1E05018-BS1
Preparation:	pNone	Initial/Final:	2 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrite as N	3.820	3.169	83.0	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05020	Laboratory ID:	1E05020-BS1
Preparation:	pNone	Initial/Final:	1 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrite as N	3.820	3.351	87.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05021	Laboratory ID:	1E05021-BS1
Preparation:	pNone	Initial/Final:	1 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrite as N	3.820	4.464	117	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05022	Laboratory ID:	1E05022-BS1
Preparation:	pNone	Initial/Final:	1 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrite as N	3.820	3.368	88.2	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E05023	Laboratory ID:	1E05023-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	4.637	96.6	90 - 110
Sulfate as SO4	24.00	23.65	98.5	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E09008	Laboratory ID:	1E09008-BS1
Preparation:	pNone	Initial/Final:	2 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	16.30	14.57	89.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E09010	Laboratory ID:	1E09010-BS1
Preparation:	pNone	Initial/Final:	2 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	16.30	14.91	91.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E10007	Laboratory ID:	1E10007-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	201.4	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E11021	Laboratory ID:	1E11021-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	195.7	97.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E12929	Laboratory ID:	1E12929-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	191.9	96.0	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E16006	Laboratory ID:	1E16006-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	4.986	99.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E19009	Laboratory ID:	1E19009-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	4.581	91.6	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1E19013	Laboratory ID:	1E19013-BS1
Preparation:	pNone	Initial/Final:	2 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	16.30	14.15	86.8	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** Kirtland_010

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_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: WC-Gensys

Analyte	MDL	MRL	Units	Method
Nitrite as N	0.00330	0.0100	mg/L	SM4500NO2B

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
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
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_010
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: WC-Lachat

Analyte	MDL	MRL	Units	Method
Nitrate/Nitrite as N	0.0500	0.300	mg/L	E353.2
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E02005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/02/11 09:38	290.00	200.00
GW0062	1104286-03	05/02/11 09:38	250.00	200.00
GW0063	1104286-05	05/02/11 09:38	250.00	200.00
Blank	1E02005-BLK1	05/02/11 09:38	250.00	200.00
LCS	1E02005-BS1	05/02/11 09:38	3.00	250.00
LCS Dup	1E02005-BSD1	05/02/11 09:38	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E04018 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0058	1104289-01	05/04/11 16:35	250.00	200.00
GW0067	1104307-01	05/04/11 16:35	295.00	200.00
GW0068	1104307-03	05/04/11 16:35	295.00	200.00
GW0043	1105015-01	05/04/11 16:35	250.00	200.00
Blank	1E04018-BLK1	05/04/11 16:35	250.00	200.00
LCS	1E04018-BS1	05/04/11 16:35	3.00	250.00
LCS Dup	1E04018-BSD1	05/04/11 16:35	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NO2B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05018 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	04/27/11 18:00	50.00	50.00
GW0062	1104286-03	04/27/11 18:00	50.00	50.00
GW0063	1104286-05	04/27/11 18:00	50.00	50.00
Blank	1E05018-BLK1	04/27/11 18:00	50.00	50.00
LCS	1E05018-BS1	04/27/11 18:00	2.00	50.00
GW0063	1E05018-MS1	04/27/11 18:00	45.00	50.00
GW0063	1E05018-MSD1	04/27/11 18:00	45.00	50.00

PREPARATION BATCH SUMMARY

SM4500NO2B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05020 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0058	1104289-01	04/28/11 16:00	50.00	50.00
Blank	1E05020-BLK1	04/28/11 16:00	50.00	50.00
LCS	1E05020-BS1	04/28/11 16:00	1.00	50.00

PREPARATION BATCH SUMMARY

SM4500NO2B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0067	1104307-01	04/29/11 14:30	50.00	50.00
GW0068	1104307-03	04/29/11 14:30	50.00	50.00
Blank	1E05021-BLK1	04/29/11 14:30	50.00	50.00
LCS	1E05021-BS1	04/29/11 14:30	1.00	50.00

PREPARATION BATCH SUMMARY

SM4500NO2B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05022 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0043	1105015-01	04/30/11 12:30	50.00	50.00
Blank	1E05022-BLK1	04/30/11 12:30	50.00	50.00
LCS	1E05022-BS1	04/30/11 12:30	1.00	50.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E05023 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/05/11 13:56	5.00	5.00
GW0062	1104286-03	05/05/11 13:56	5.00	5.00
GW0063	1104286-05	05/05/11 13:56	5.00	5.00
GW0058	1104289-01	05/05/11 13:56	5.00	5.00
GW0067	1104307-01	05/05/11 13:56	5.00	5.00
GW0068	1104307-03	05/05/11 13:56	5.00	5.00
GW0043	1105015-01	05/05/11 13:56	5.00	5.00
Blank	1E05023-BLK1	05/05/11 13:56	5.00	5.00
LCS	1E05023-BS1	05/05/11 13:56	5.00	5.00
GW0068	1E05023-DUP2	05/05/11 13:56	5.00	5.00
GW0068	1E05023-MS2	05/05/11 13:56	22.50	25.00
GW0068	1E05023-MSD2	05/05/11 13:56	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E09008 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/09/11 11:01	4.00	20.00
GW0062	1104286-03	05/09/11 11:01	4.00	20.00
GW0063	1104286-05	05/09/11 11:01	4.00	20.00
Blank	1E09008-BLK1	05/09/11 11:01	20.00	20.00
LCS	1E09008-BS1	05/09/11 11:01	2.00	20.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E09010 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0058	1104289-01	05/09/11 12:06	4.00	20.00
GW0067	1104307-01	05/09/11 12:06	4.00	20.00
GW0068	1104307-03	05/09/11 12:06	4.00	20.00
Blank	1E09010-BLK1	05/09/11 12:06	20.00	20.00
LCS	1E09010-BS1	05/09/11 12:06	2.00	20.00
GW0058	1E09010-MS1	05/09/11 12:06	4.00	20.00
GW0058	1E09010-MSD1	05/09/11 12:06	4.00	20.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E10007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/10/11 07:34	25.00	25.00
GW0062	1104286-03	05/10/11 07:34	25.00	25.00
GW0063	1104286-05	05/10/11 07:34	25.00	25.00
Blank	1E10007-BLK1	05/10/11 07:34	25.00	25.00
LCS	1E10007-BS1	05/10/11 07:34	25.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E11021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0058	1104289-01	05/11/11 10:44	25.00	25.00
GW0067	1104307-01	05/11/11 10:44	25.00	25.00
GW0068	1104307-03	05/11/11 10:44	25.00	25.00
Blank	1E11021-BLK1	05/11/11 10:44	25.00	25.00
LCS	1E11021-BS1	05/11/11 10:44	25.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E12929 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0043	1105015-01	05/12/11 10:45	25.00	25.00
Blank	1E12929-BLK1	05/12/11 10:45	25.00	25.00
LCS	1E12929-BS1	05/12/11 10:45	25.00	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E16006 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0061	1104286-01	05/16/11 10:12	100.00	100.00
GW0062	1104286-03	05/16/11 10:12	100.00	100.00
GW0063	1104286-05	05/16/11 10:12	100.00	100.00
GW0058	1104289-01	05/16/11 10:12	100.00	100.00
GW0067	1104307-01	05/16/11 10:12	100.00	100.00
GW0068	1104307-03	05/16/11 10:12	100.00	100.00
Blank	1E16006-BLK1	05/16/11 10:12	100.00	100.00
LCS	1E16006-BS1	05/16/11 10:12	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E19009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0043	1105015-01	05/19/11 11:16	100.00	100.00
Blank	1E19009-BLK1	05/19/11 11:16	100.00	100.00
LCS	1E19009-BS1	05/19/11 11:16	100.00	100.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_010

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

Batch: 1E19013 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0043	1105015-01	05/19/11 13:25	4.00	20.00
Blank	1E19013-BLK1	05/19/11 13:25	20.00	20.00
LCS	1E19013-BS1	05/19/11 13:25	2.00	20.00
GW0043	1E19013-MS1	05/19/11 13:25	4.00	20.00
GW0043	1E19013-MSD1	05/19/11 13:25	4.00	20.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1E10007-BLK1	051011-004	05/10/11 13:30
LCS	1E10007-BS1	051011-003	05/10/11 13:37
Blank	1E11021-BLK1	051111-004	05/11/11 13:52
LCS	1E11021-BS1	051111-003	05/11/11 13:55
Blank	1E12929-BLK1	051211-004	05/12/11 13:47
LCS	1E12929-BS1	051211-003	05/12/11 13:52

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_010

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1E02005-BLK1	050211-004	05/02/11 13:56
LCS Dup	1E02005-BSD1	050211-003	05/02/11 14:12
LCS	1E02005-BS1	050211-002	05/02/11 14:12
Blank	1E04018-BLK1	050411-004	05/04/11 19:27
LCS Dup	1E04018-BSD1	050411-003	05/04/11 19:32
LCS	1E04018-BS1	050411-002	05/04/11 19:32

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12915	Instrument:	WC-Lachat
Calibration:	1129005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E12915-CAL1	)M_5-9-2011_02-15-39PM-00	05/09/11 14:16
Cal Standard	1E12915-CAL2	)M_5-9-2011_02-15-39PM-00	05/09/11 14:18
Cal Standard	1E12915-CAL3	)M_5-9-2011_02-15-39PM-00	05/09/11 14:19
Cal Standard	1E12915-CAL4	)M_5-9-2011_02-15-39PM-00	05/09/11 14:20
Cal Standard	1E12915-CAL5	)M_5-9-2011_02-15-39PM-00	05/09/11 14:22
Cal Standard	1E12915-CAL6	)M_5-9-2011_02-15-39PM-00	05/09/11 14:23
Cal Standard	1E12915-CAL7	)M_5-9-2011_02-15-39PM-00	05/09/11 14:25
Cal Standard	1E12915-CAL8	)M_5-9-2011_02-15-39PM-00	05/09/11 14:26
Initial Cal Check	1E12915-ICV1	)M_5-9-2011_02-15-39PM-00	05/09/11 14:28
Initial Cal Blank	1E12915-ICB1	)M_5-9-2011_02-15-39PM-01	05/09/11 14:29
Blank	1E09008-BLK1	)M_5-9-2011_02-15-39PM-01	05/09/11 14:32
LCS	1E09008-BS1	)M_5-9-2011_02-15-39PM-01	05/09/11 14:34
Calibration Check	1E12915-CCV1	)M_5-9-2011_02-15-39PM-02	05/09/11 14:52
Calibration Blank	1E12915-CCB1	)M_5-9-2011_02-15-39PM-02	05/09/11 14:54
GW0061	1104286-01	)M_5-9-2011_02-15-39PM-02	05/09/11 14:57
GW0062	1104286-03	)M_5-9-2011_02-15-39PM-03	05/09/11 14:58
GW0063	1104286-05	)M_5-9-2011_02-15-39PM-03	05/09/11 15:00
Calibration Check	1E12915-CCV2	)M_5-9-2011_02-15-39PM-03	05/09/11 15:10
Calibration Blank	1E12915-CCB2	)M_5-9-2011_02-15-39PM-03	05/09/11 15:11
Blank	1E09010-BLK1	)M_5-9-2011_02-15-39PM-04	05/09/11 15:13
LCS	1E09010-BS1	)M_5-9-2011_02-15-39PM-04	05/09/11 15:14
GW0058	1104289-01	)M_5-9-2011_02-15-39PM-04	05/09/11 15:19
GW0058	1E09010-MS1	)M_5-9-2011_02-15-39PM-04	05/09/11 15:20
GW0058	1E09010-MSD1	)M_5-9-2011_02-15-39PM-04	05/09/11 15:22
GW0067	1104307-01	)M_5-9-2011_02-15-39PM-04	05/09/11 15:23
GW0068	1104307-03	)M_5-9-2011_02-15-39PM-04	05/09/11 15:24
Calibration Check	1E12915-CCV3	)M_5-9-2011_02-15-39PM-05	05/09/11 15:33
Calibration Blank	1E12915-CCB3	)M_5-9-2011_02-15-39PM-05	05/09/11 15:35

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13707	Instrument:	WC-Lachat
Calibration:	1137002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E13707-CAL1	M_5-17-2011_09-46-28AM-00	05/17/11 09:47
Cal Standard	1E13707-CAL2	M_5-17-2011_09-46-28AM-00	05/17/11 09:48
Cal Standard	1E13707-CAL3	M_5-17-2011_09-46-28AM-00	05/17/11 09:49
Cal Standard	1E13707-CAL4	M_5-17-2011_09-46-28AM-00	05/17/11 09:50
Cal Standard	1E13707-CAL5	M_5-17-2011_09-46-28AM-00	05/17/11 09:51
Cal Standard	1E13707-CAL6	M_5-17-2011_09-46-28AM-00	05/17/11 09:52
Cal Standard	1E13707-CAL7	M_5-17-2011_09-46-28AM-00	05/17/11 09:53
Cal Standard	1E13707-CAL8	M_5-17-2011_09-46-28AM-00	05/17/11 09:54
Initial Cal Check	1E13707-ICV1	M_5-17-2011_09-46-28AM-00	05/17/11 09:55
Initial Cal Blank	1E13707-ICB1	M_5-17-2011_09-46-28AM-01	05/17/11 09:56
Blank	1E16006-BLK1	M_5-17-2011_09-46-28AM-01	05/17/11 09:57
LCS	1E16006-BS1	M_5-17-2011_09-46-28AM-01	05/17/11 09:58
Calibration Check	1E13707-CCV1	M_5-17-2011_09-46-28AM-02	05/17/11 10:10
Calibration Blank	1E13707-CCB1	M_5-17-2011_09-46-28AM-02	05/17/11 10:11
GW0061	1104286-01	M_5-17-2011_09-46-28AM-02	05/17/11 10:14
GW0062	1104286-03	M_5-17-2011_09-46-28AM-03	05/17/11 10:15
GW0063	1104286-05	M_5-17-2011_09-46-28AM-03	05/17/11 10:16
GW0058	1104289-01	M_5-17-2011_09-46-28AM-03	05/17/11 10:17
GW0067	1104307-01	M_5-17-2011_09-46-28AM-03	05/17/11 10:18
GW0068	1104307-03	M_5-17-2011_09-46-28AM-03	05/17/11 10:19
Calibration Check	1E13707-CCV2	M_5-17-2011_09-46-28AM-03	05/17/11 10:22
Calibration Blank	1E13707-CCB2	M_5-17-2011_09-46-28AM-03	05/17/11 10:23

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E13917	Instrument:	WC-Lachat
Calibration:	1142002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E13917-CAL1	M_5-19-2011_03-54-32PM-00	05/19/11 15:55
Cal Standard	1E13917-CAL2	M_5-19-2011_03-54-32PM-00	05/19/11 15:57
Cal Standard	1E13917-CAL3	M_5-19-2011_03-54-32PM-00	05/19/11 15:58
Cal Standard	1E13917-CAL4	M_5-19-2011_03-54-32PM-00	05/19/11 15:59
Cal Standard	1E13917-CAL5	M_5-19-2011_03-54-32PM-00	05/19/11 16:01
Cal Standard	1E13917-CAL6	M_5-19-2011_03-54-32PM-00	05/19/11 16:02
Cal Standard	1E13917-CAL7	M_5-19-2011_03-54-32PM-00	05/19/11 16:04
Cal Standard	1E13917-CAL8	M_5-19-2011_03-54-32PM-00	05/19/11 16:05
Initial Cal Check	1E13917-ICV1	M_5-19-2011_03-54-32PM-00	05/19/11 16:07
Initial Cal Blank	1E13917-ICB1	M_5-19-2011_03-54-32PM-01	05/19/11 16:08
Blank	1E19013-BLK1	M_5-19-2011_03-54-32PM-01	05/19/11 16:11
LCS	1E19013-BS1	M_5-19-2011_03-54-32PM-01	05/19/11 16:12
Calibration Check	1E13917-CCV1	M_5-19-2011_03-54-32PM-02	05/19/11 16:31
Calibration Blank	1E13917-CCB1	M_5-19-2011_03-54-32PM-02	05/19/11 16:33
GW0043	1105015-01	M_5-19-2011_03-54-32PM-03	05/19/11 16:44
GW0043	1E19013-MS1	M_5-19-2011_03-54-32PM-03	05/19/11 16:46
GW0043	1E19013-MSD1	M_5-19-2011_03-54-32PM-03	05/19/11 16:47
Calibration Check	1E13917-CCV2	M_5-19-2011_03-54-32PM-03	05/19/11 16:49
Calibration Blank	1E13917-CCB2	M_5-19-2011_03-54-32PM-03	05/19/11 16:50

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14014	Instrument:	WC-Lachat
Calibration:	1142001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E14014-CAL1	M_5-20-2011_12-48-10PM-00	05/20/11 12:49
Cal Standard	1E14014-CAL2	M_5-20-2011_12-48-10PM-00	05/20/11 12:50
Cal Standard	1E14014-CAL3	M_5-20-2011_12-48-10PM-00	05/20/11 12:51
Cal Standard	1E14014-CAL4	M_5-20-2011_12-48-10PM-00	05/20/11 12:52
Cal Standard	1E14014-CAL5	M_5-20-2011_12-48-10PM-00	05/20/11 12:53
Cal Standard	1E14014-CAL6	M_5-20-2011_12-48-10PM-00	05/20/11 12:54
Cal Standard	1E14014-CAL7	M_5-20-2011_12-48-10PM-00	05/20/11 12:55
Cal Standard	1E14014-CAL8	M_5-20-2011_12-48-10PM-00	05/20/11 12:56
Initial Cal Check	1E14014-ICV1	M_5-20-2011_12-48-10PM-00	05/20/11 12:57
Initial Cal Blank	1E14014-ICB1	M_5-20-2011_12-48-10PM-01	05/20/11 12:58
Blank	1E19009-BLK1	M_5-20-2011_12-48-10PM-01	05/20/11 12:59
LCS	1E19009-BS1	M_5-20-2011_12-48-10PM-01	05/20/11 13:00
GW0043	1105015-01	M_5-20-2011_12-48-10PM-01	05/20/11 13:01
Calibration Check	1E14014-CCV1	M_5-20-2011_12-48-10PM-02	05/20/11 13:10
Calibration Blank	1E14014-CCB1	M_5-20-2011_12-48-10PM-02	05/20/11 13:11

ANALYSIS SEQUENCE SUMMARY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14017	Instrument:	WC-Gensys
Calibration:	1140003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E14017-CAL2	042911-003	04/29/11 14:52
Cal Standard	1E14017-CAL1	042911-002	04/29/11 14:52
Cal Standard	1E14017-CAL4	042911-005	04/29/11 14:53
Cal Standard	1E14017-CAL3	042911-004	04/29/11 14:53
Cal Standard	1E14017-CAL6	042911-007	04/29/11 14:54
Cal Standard	1E14017-CAL5	042911-006	04/29/11 14:54
Initial Cal Check	1E14017-ICV1	042911-009	04/29/11 14:55
Cal Standard	1E14017-CAL7	042911-008	04/29/11 14:55
LCS	1E05021-BS1	042911-011	04/29/11 14:56
Blank	1E05021-BLK1	042911-010	04/29/11 14:56
GW0067	1104307-01	042911-017	04/29/11 14:59
Calibration Check	1E14017-CCV1	042911-019	04/29/11 15:00
GW0068	1104307-03	042911-018	04/29/11 15:00
Calibration Blank	1E14017-CCB1	042911-020	04/29/11 15:01

ANALYSIS SEQUENCE SUMMARY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14018	Instrument:	WC-Gensys
Calibration:	1140004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E14018-CAL2	043011-003	04/30/11 12:40
Cal Standard	1E14018-CAL1	043011-002	04/30/11 12:40
Cal Standard	1E14018-CAL4	043011-005	04/30/11 12:41
Cal Standard	1E14018-CAL3	043011-004	04/30/11 12:41
Cal Standard	1E14018-CAL6	043011-007	04/30/11 12:42
Cal Standard	1E14018-CAL5	043011-006	04/30/11 12:42
Cal Standard	1E14018-CAL7	043011-008	04/30/11 12:43
LCS	1E05022-BS1	043011-011	04/30/11 12:44
Blank	1E05022-BLK1	043011-010	04/30/11 12:44
Calibration Check	1E14018-CCV1	043011-013	04/30/11 12:45
GW0043	1105015-01	043011-012	04/30/11 12:45
Calibration Blank	1E14018-CCB1	043011-014	04/30/11 12:46
Calibration Check	1E14018-CCV2	043011-021	04/30/11 12:49
Calibration Blank	1E14018-CCB2		04/30/11 12:50

ANALYSIS SEQUENCE SUMMARY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14022	Instrument:	WC-Gensys
Calibration:	1140005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E14022-CAL2	042711-003	04/27/11 18:27
Cal Standard	1E14022-CAL1	042711-002	04/27/11 18:27
Cal Standard	1E14022-CAL4	042711-005	04/27/11 18:28
Cal Standard	1E14022-CAL3	042711-004	04/27/11 18:28
Cal Standard	1E14022-CAL6	042711-007	04/27/11 18:29
Cal Standard	1E14022-CAL5	042711-006	04/27/11 18:29
Cal Standard	1E14022-CAL7	042711-008	04/27/11 18:30
Initial Cal Check	1E14022-ICV1	042711-009	04/27/11 18:30
Blank	1E05018-BLK1	042711-010	04/27/11 18:31
LCS	1E05018-BS1	042711-011	04/27/11 18:31
Calibration Blank	1E14022-CCB1	042711-023	04/27/11 18:37
Calibration Check	1E14022-CCV1	042711-022	04/27/11 18:37
GW0061	1104286-01	042711-025	04/27/11 18:38
GW0062	1104286-03	042711-026	04/27/11 18:39
GW0063	1104286-05	042711-027	04/27/11 18:39
GW0063	1E05018-MS1	042711-028	04/27/11 18:40
GW0063	1E05018-MSD1	042711-029	04/27/11 18:40
Calibration Blank	1E14022-CCB2	042711-031	04/27/11 18:41
Calibration Check	1E14022-CCV2	042711-030	04/27/11 18:41

ANALYSIS SEQUENCE SUMMARY

SM4500NO2B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14103	Instrument:	WC-Gensys
Calibration:	1141001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E14103-CAL2	042811-003	04/28/11 16:52
Cal Standard	1E14103-CAL1	042811-002	04/28/11 16:52
Cal Standard	1E14103-CAL4	042811-005	04/28/11 16:53
Cal Standard	1E14103-CAL3	042811-004	04/28/11 16:53
Cal Standard	1E14103-CAL6	042811-007	04/28/11 16:54
Cal Standard	1E14103-CAL5	042811-006	04/28/11 16:54
Initial Cal Check	1E14103-ICV1	042811-009	04/28/11 16:55
Cal Standard	1E14103-CAL7	042811-008	04/28/11 16:55
LCS	1E05020-BS1	042811-011	04/28/11 16:56
Blank	1E05020-BLK1	042811-010	04/28/11 16:56
Calibration Check	1E14103-CCV1	042811-015	04/28/11 16:58
GW0058	1104289-01	042811-014	04/28/11 16:58
Calibration Blank	1E14103-CCB1	042811-016	04/28/11 16:59

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14105	Instrument:	WC-IC
Calibration:	1141003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E14105-CAL1	050411-005	05/04/11 15:35
Cal Standard	1E14105-CAL2	050411-006	05/04/11 15:52
Cal Standard	1E14105-CAL3	050411-007	05/04/11 16:10
Cal Standard	1E14105-CAL4	050411-008	05/04/11 16:27
Cal Standard	1E14105-CAL5	050411-009	05/04/11 16:44
Cal Standard	1E14105-CAL6	050411-010	05/04/11 17:02
Cal Standard	1E14105-CAL7	050411-011	05/04/11 17:19
Cal Standard	1E14105-CAL8	050411-012	05/04/11 17:37
Initial Cal Check	1E14105-ICV1	050411-013	05/04/11 17:54
Initial Cal Blank	1E14105-ICB1	050411-014	05/04/11 18:11
Instrument RL Check	1E14105-CRL1	050411-015	05/04/11 18:29
Calibration Check	1E14105-CCV1	050411-025	05/04/11 21:23
Calibration Blank	1E14105-CCB1	050411-026	05/04/11 21:40

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_010
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E14107	Instrument:	WC-IC
Calibration:	1141003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1E14107-CCV1	050511-002	05/05/11 15:17
Calibration Blank	1E14107-CCB1	050511-003	05/05/11 15:34
Instrument RL Check	1E14107-CRL1	050511-004	05/05/11 15:51
Instrument RL Check	1E14107-CRL2	050511-005	05/05/11 16:09
LCS	1E05023-BS1	050511-006	05/05/11 16:26
Blank	1E05023-BLK1	050511-007	05/05/11 16:44
Calibration Check	1E14107-CCV2	050511-014	05/05/11 18:46
Calibration Blank	1E14107-CCB2	050511-015	05/05/11 19:03
GW0061	1104286-01	050511-023	05/05/11 21:22
GW0062	1104286-03	050511-024	05/05/11 21:40
GW0063	1104286-05	050511-025	05/05/11 21:57
Calibration Check	1E14107-CCV3	050511-026	05/05/11 22:14
Calibration Blank	1E14107-CCB3	050511-027	05/05/11 22:32
GW0058	1104289-01	050511-028	05/05/11 22:49
GW0067	1104307-01	050511-029	05/05/11 23:07
GW0068	1104307-03	050511-030	05/05/11 23:24
GW0068	1E05023-MS2	050511-031	05/05/11 23:41
GW0068	1E05023-MSD2	050511-032	05/05/11 23:59
GW0068	1E05023-DUP2	050511-033	05/06/11 00:16
GW0043	1105015-01	050511-034	05/06/11 00:34
Calibration Check	1E14107-CCV4	050511-035	05/06/11 00:51
Calibration Blank	1E14107-CCB4	050511-036	05/06/11 01:09