ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_064

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

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THIS DOCUMENT MEETS DoD QSM 4.2 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.

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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.

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. Sample prep and dilution information is provided within the final results report and at the beginning of each form set. 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:
Note – Samples 1210056-15 (10x), -17RE1 (5x), and -21 (10x) were analyzed at the dilution indicated only due to the samples foaming during screening. No lower analyses were able to be performed.

The following surrogates exceeded criteria:
Dibromofluoromethane with a positive bias in 1210056-01, -03, -05, -09, -11, -13, -19, -25, and -27

The following batch spikes exceeded criteria:
2J15015-BS1/BSD1 exceeded relative percent difference criteria for Bromomethane
2J15017-BS1 with a negative bias for Chloromethane

The following continuing calibration verifications exceeded criteria:
2J28901-CCV1 with a negative bias for 1,1,2,2-Tetrachloroethane and with a positive bias for Carbon Tetrachloride
2J29004-CCV1 with a negative bias for Bromomethane, Chloromethane, and 1,1,2,2-Tetrachloroethane and with a positive bias for Carbon Tetrachloride
2J29005-CCV1 with a positive bias for Bromochloromethane

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

SW8270D BNA:
The following surrogates exceeded criteria:
2-Fluorophenol with a negative bias in 1210056-09

The following continuing calibration verifications exceeded criteria:
2J28514-CCV2 with a positive bias for Benzidine
2J28913-CCV2 with a positive bias for Benzidine

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

SW8270D PAH:
No anomalies or deviations are noted.

SW8011:
Note - Surrogate spike is not a method requirement, as such, surrogate limits are advisory.

The following surrogates exceeded criteria:
1,3-Dibromopropane with a positive bias on both columns in 1210056-21RE1

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

SW8015B DRO:
No anomalies or deviations are noted.

SW8015B GRO:
The following surrogates exceeded criteria:
Bromofluorobenzene with a negative bias in 2J09025-BS1 and –BSD1

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

SW6010B:
The following compounds are qualified with an M to indicate that the LOD and/or DL were raised due to interference:
Lead in 1210056-03, -11, and -13

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

Wet Chemistry:
The following compounds are qualified with an M to indicate that the LOQ was raised to the level of the reporting limit standard within criteria:
Chloride (1.0 mg/L) in 1210056-13, -15, -17, -19, -21, -23, and -25
Sulfate as SO4 (2.5 mg/L) in 1210056-01, -03, -05, -07, -09, -11, -13, -15, -17, -19, -21, -23, and -25

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

DL: The detection limit (DL) 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 DL is supported by the method detection limit (MDL) which is determined from analysis of a sample containing the analyte in a given matrix.

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 4.2 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 4.2 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: Exceeding quality control criteria are 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 LOQ. One should feel confident that the result is greater than zero and less than the LOQ.

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 DL/LOD/LOQ have 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 relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard exceeded 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, the Data Quality Manager, Technical Directors or Project Managers are authorized to sign this Statement of Data Authenticity.

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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

GC/MS Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1210056

Master

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW230

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

Samples Shipment Date: 05 OCT 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619191

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 ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

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

1. Relinquished By (Signature/Affiliation) Shaw — Date: 10/4/12 Time: 1600
1. Received By (Signature/Affiliation) — Date: Time:
2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) jack Deville jr. — Date: 10-5-12 Time: 830

Comments:

JD 10-5-12

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01 GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B	01		N		
GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	02		N		

Kirtland_064 Summ Package

1210056

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JD 10-5-12

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW230

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B	01		N		
	GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0748	KAFB-003-WG-GW0748-REG	03 OCT 2012	11:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
02	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B	03		N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
0	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	04		N		
02	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	03		N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0749	KAFB-015-WG-GW0749-REG	03 OCT 2012	12:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
03	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B	05		N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	06		N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011	05		N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8270C (Low Level - SIM)			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0752	ST106-VA2-WG-GW0752-REG	03 OCT 2012	09:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B	07		N		
	GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW230

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							SW846 6010C					
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B	07		N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	08		N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF	07		N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0758	KAFB-106007-WG-GW0758-REG	04 OCT 2012	13:07	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	09		N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	10		N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B	09		N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0775	KAFB-106024-WG-GW0775-REG	04 OCT 2012	15:56	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	11		N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	12		N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011	11		N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

1210056

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW230

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0776	KAFB-106024-WG-GW0776-FD	04 OCT 2012	10:31	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF	11		N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B	13		N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	14		N		
GW0777	KAFB-106025-WG-GW0777-REG	04 OCT 2012	10:31	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C	13		N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B	15		N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	16		N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	15		N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0838	KAFB-106082-WG-GW0838-REG	03 OCT 2012	16:05	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B	17		N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

1210056

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW230

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	18		N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	17		N		
GW0839	KAFB-106083-WG-GW0839-REG	03 OCT 2012	14:07	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF	19		N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	20		N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	19		N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0840	KAFB-106084-WG-GW0840-REG	03 OCT 2012	11:38	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C	21		N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	22		N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	21		N		
			DLO 10/4/2012									
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0851	KAFB-106094-WG-GW0851-REG	04 OCT 2012	15:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B	23		N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW230

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C	23		N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	24		N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B	23		N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
GW0852	KAFB-106095-WG-GW0852-REG	04 OCT 2012	13:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B	25		N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	26		N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B	25		N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
GW0853	KAFB-106096-WG-GW0853-REG	04 OCT 2012	11:07	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW8230-TB	FIELDQC-BW-GW8230-TB-TB	03 OCT 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B	27		N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9191 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.8 °C + correction factor (+ 0.2) = 2.0 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

   If yes, how many and where: 2 FRONT & BACK

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO..(NA)

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13. a. Were VOA vials received? (YES)..NO...NA

    b. Was there any observable headspace present in any VOA vial? YES..(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)..NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES (NO) Was a NCR generated? YES (NO)..# ___

Additional Details:

~~* Extra sample containers [2 1L Ambers] for GW0752.~~

JD 10-5-12

It was included on COC.

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9206 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.8 °C + correction factor (+ 0.2) = 4.0 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [illegible]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) ____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# ____

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9217 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.4 °C + correction factor (+ 0.2) = 3.6 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) B

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO..# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9228 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.9 °C + *correction factor (+ 0.2)* = 1.1 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO)..NA

4. Were custody seals on outside of cooler? (YES)...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) BJ

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO...(NA)

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13. a. Were VOA vials received? YES...(NO)...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence # 4

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES (NO) Was a NCR generated? YES (NO)...# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9239 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.1 °C + *correction factor (+ 0.2)* = 3.3 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 2 FRONT & BACK

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used: Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 5

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# ____

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9240 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.1 °C + *correction factor (+ 0.2)* = 2.3 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 2 FRONT & BACK

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 6

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9250 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.6 °C + correction factor (+ 0.2) = 1.8 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO)..NA

4. Were custody seals on outside of cooler? (YES)...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) B

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO...(NA)

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13. a. Were VOA vials received? YES...(NO)..NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence # 7

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES (NO) Was a NCR generated? YES (NO)..# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/05/12 @ 0830 Workorder# 1210056

1. Tracking # 9261 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.0 °C + *correction factor (+ 0.2)* = 1.2 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO)...NA

4. Were custody seals on outside of cooler? (YES)...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) KW

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO...(NA)

8. Packing material used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13. a. Were VOA vials received? YES...(NO)...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence # 8

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial)

21. Were there Non-Conformance issues at login? YES (NO) Was a NCR generated? YES (NO)...# —

Additional Details:

WORK ORDER

Printed: 10/8/2012 2:58:41PM

1210056

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
9201 East Dry Creek
Denver, CO 80112
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

Due to Client: 10/26/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 10/05/2012 08:30
Logged In By: Jack Deville
Date Logged In: 10/05/2012 14:44

Samples Received at: **2°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
1210056-01 GW0748 [Water] Sampled 10/03/2012 11:00 Mountain 'Client Sample'					
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	10/31/2012 12:00	
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/17/2012 12:00	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/10/2012 12:00	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/17/2012 12:00	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/01/2013 12:00	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/10/2012 12:00	
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/10/2012 12:00	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 12:00	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/17/2012 12:00	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	10/31/2012 12:00	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	10/31/2012 12:00	
1210056-02 GW0748 [Water] Sampled 10/03/2012 11:00 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/01/2013 12:00	Fe & Mn

1210056

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210056-03 GW0749 [Water] Sampled 10/03/2012 12:17 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/10/2012 13:17	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/10/2012 13:17	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/17/2012 13:17	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/10/2012 13:17	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	10/31/2012 13:17	
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/01/2013 13:17	Ca, Pb, K, Na, Mg
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	10/31/2012 13:17	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	10/31/2012 13:17	
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/17/2012 13:17	Run dilutions based on 8260 results!
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/17/2012 13:17	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 13:17	naphthalene must be reported
1210056-04 GW0749 [Water] Sampled 10/03/2012 12:17 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/01/2013 13:17	Fe & Mn
1210056-05 GW0752 [Water] Sampled 10/03/2012 09:10 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/10/2012 10:10	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8270D	SMS_PAH_8270D_LOW	10/23/2012 14:00	15	10/10/2012 10:10	Must be non-detect!
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/17/2012 10:10	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 10:10	naphthalene must be reported
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/10/2012 10:10	
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/17/2012 10:10	Run dilutions based on 8260 results!
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/17/2012 10:10	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	10/31/2012 10:10	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	10/31/2012 10:10	
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/10/2012 10:10	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	10/31/2012 10:10	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/01/2013 10:10	Ca, Pb, K, Na, Mg
1210056-06 GW0752 [Water] Sampled 10/03/2012 09:10 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/01/2013 10:10	Fe & Mn

1210056

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210056-07 GW0758 [Water] Sampled 10/04/2012 13:07 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 14:07	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 14:07	Ca, Pb, K, Na, Mg
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 14:07	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 14:07	Cl, SO4
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 14:07	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 14:07	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 14:07	carb/bicarb
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 14:07	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 14:07	
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 14:07	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 14:07	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210056-08 GW0758 [Water] Sampled 10/04/2012 13:07 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 14:07	Fe & Mn
1210056-09 GW0775 [Water] Sampled 10/04/2012 15:56 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 16:56	naphthalene must be reported
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 16:56	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 16:56	Cl, SO4
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 16:56	Run dilutions based on 8260 results!
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 16:56	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 16:56	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 16:56	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 16:56	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 16:56	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 16:56	
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 16:56	
1210056-10 GW0775 [Water] Sampled 10/04/2012 15:56 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 16:56	Fe & Mn

1210056

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210056-11 GW0776 [Water] Sampled 10/04/2012 10:31 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 11:31	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 11:31	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 11:31	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 11:31	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 11:31	
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 11:31	
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 11:31	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 11:31	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 11:31	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 11:31	naphthalene must be reported
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 11:31	Cl, SO4
1210056-12 GW0776 [Water] Sampled 10/04/2012 10:31 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 11:31	Fe & Mn
1210056-13 GW0777 [Water] Sampled 10/04/2012 10:31 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 11:31	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 11:31	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 11:31	carb/bicarb
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 11:31	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 11:31	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 11:31	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 11:31	Run dilutions based on 8260 results!
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 11:31	
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 11:31	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 11:31	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 11:31	
1210056-14 GW0777 [Water] Sampled 10/04/2012 10:31 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 11:31	Fe & Mn

1210056

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210056-15 GW0838 [Water] Sampled 10/03/2012 16:05 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/17/2012 17:05	Run dilutions based on 8260 results!
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/17/2012 17:05	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/10/2012 17:05	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/10/2012 17:05	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/17/2012 17:05	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 17:05	naphthalene must be reported
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/01/2013 17:05	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/10/2012 17:05	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	10/31/2012 17:05	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	10/31/2012 17:05	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	10/31/2012 17:05	Cl, SO4
1210056-16 GW0838 [Water] Sampled 10/03/2012 16:05 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/01/2013 17:05	Fe & Mn
1210056-17 GW0839 [Water] Sampled 10/03/2012 14:07 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	10/31/2012 15:07	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/17/2012 15:07	carb/bicarb
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/17/2012 15:07	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 15:07	naphthalene must be reported
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/17/2012 15:07	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/01/2013 15:07	Ca, Pb, K, Na, Mg
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	10/31/2012 15:07	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	10/31/2012 15:07	
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/10/2012 15:07	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/10/2012 15:07	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/10/2012 15:07	
1210056-18 GW0839 [Water] Sampled 10/03/2012 14:07 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/01/2013 15:07	Fe & Mn

1210056

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210056-19 GW0840 [Water] Sampled 10/03/2012 11:38 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/01/2013 12:38	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/10/2012 12:38	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	10/31/2012 12:38	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	10/31/2012 12:38	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/17/2012 12:38	carb/bicarb
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 12:38	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/17/2012 12:38	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/10/2012 12:38	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/10/2012 12:38	
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/17/2012 12:38	Run dilutions based on 8260 results!
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	10/31/2012 12:38	
1210056-20 GW0840 [Water] Sampled 10/03/2012 11:38 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/01/2013 12:38	Fe & Mn
1210056-21 GW0851 [Water] Sampled 10/04/2012 15:37 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 16:37	naphthalene must be reported
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 16:37	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 16:37	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 16:37	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 16:37	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 16:37	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 16:37	
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 16:37	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 16:37	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 16:37	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 16:37	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210056-22 GW0851 [Water] Sampled 10/04/2012 15:37 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 16:37	Fe & Mn

1210056

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210056-23 GW0852 [Water] Sampled 10/04/2012 13:22 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 14:22	
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 14:22	
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 14:22	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 14:22	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 14:22	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 14:22	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 14:22	Cl, SO4
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 14:22	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 14:22	naphthalene must be reported
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 14:22	
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 14:22	
1210056-24 GW0852 [Water] Sampled 10/04/2012 13:22 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 14:22	Fe & Mn
1210056-25 GW0853 [Water] Sampled 10/04/2012 11:07 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	10/23/2012 14:00	15	10/11/2012 12:07	
E353.2	WC_NO3NO2_N_353.2	10/23/2012 14:00	15	11/01/2012 12:07	
E300.0	WC_ANIONS_300.0 (Regular)	10/23/2012 14:00	15	11/01/2012 12:07	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	10/23/2012 14:00	15	11/01/2012 12:07	
SM2320B	WC_ALKALINITY_2320B	10/23/2012 14:00	15	10/18/2012 12:07	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	10/23/2012 14:00	15	10/11/2012 12:07	
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/18/2012 12:07	naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	10/23/2012 14:00	15	10/11/2012 12:07	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	10/23/2012 14:00	15	10/18/2012 12:07	Run dilutions based on 8260 results!
SW8015B GRO	VGC_GRO_8015B	10/23/2012 14:00	15	10/18/2012 12:07	
SW6010B	MET_ICP_6010B_FULL	10/23/2012 14:00	15	04/02/2013 12:07	Ca, Pb, K, Na, Mg
1210056-26 GW0853 [Water] Sampled 10/04/2012 11:07 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	10/23/2012 14:00	15	04/02/2013 12:07	Fe & Mn
1210056-27 GW8230-TB [Water] Sampled 10/03/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	10/23/2012 14:00	15	10/17/2012 09:00	naphthalene must be reported

Reviewed By

Date

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_064

QC LEVEL: Level IV
Report Due: 10/26/2012
Client Sample Count: 24

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B
Client Sample	10/3/2012	10/5/2012	1210056-01	GW0748	Water	X	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-02	GW0748	Water						X
Client Sample	10/3/2012	10/5/2012	1210056-03	GW0749	Water	X	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-04	GW0749	Water						X
Client Sample	10/3/2012	10/5/2012	1210056-05	GW0752	Water	X	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-06	GW0752	Water						X
Client Sample	10/4/2012	10/5/2012	1210056-07	GW0758	Water	X	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-08	GW0758	Water						X
Client Sample	10/4/2012	10/5/2012	1210056-09	GW0775	Water	X	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-10	GW0775	Water						X
Field Duplicate	10/4/2012	10/5/2012	1210056-11	GW0776	Water	X	X	X	X	X	X
Field Duplicate	10/4/2012	10/5/2012	1210056-12	GW0776	Water						X
Client Sample	10/4/2012	10/5/2012	1210056-13	GW0777	Water	X	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-14	GW0777	Water						X
Client Sample	10/3/2012	10/5/2012	1210056-15	GW0838	Water	X	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-16	GW0838	Water						X
Client Sample	10/3/2012	10/5/2012	1210056-17	GW0839	Water	X	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-18	GW0839	Water						X
Client Sample	10/3/2012	10/5/2012	1210056-19	GW0840	Water	X	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-20	GW0840	Water						X
Client Sample	10/4/2012	10/5/2012	1210056-21	GW0851	Water	X	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-22	GW0851	Water						X
Client Sample	10/4/2012	10/5/2012	1210056-23	GW0852	Water	X	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-24	GW0852	Water						X
Client Sample	10/4/2012	10/5/2012	1210056-25	GW0853	Water	X	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-26	GW0853	Water						X
Trip Blank	10/3/2012	10/5/2012	1210056-27	GW8230-TB	Water						

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	10/3/2012	10/5/2012	1210056-01	GW0748	Water	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-02	GW0748	Water					
Client Sample	10/3/2012	10/5/2012	1210056-03	GW0749	Water	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-04	GW0749	Water					
Client Sample	10/3/2012	10/5/2012	1210056-05	GW0752	Water	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-06	GW0752	Water					
Client Sample	10/4/2012	10/5/2012	1210056-07	GW0758	Water	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-08	GW0758	Water					
Client Sample	10/4/2012	10/5/2012	1210056-09	GW0775	Water	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-10	GW0775	Water					
Field Duplicate	10/4/2012	10/5/2012	1210056-11	GW0776	Water	X	X	X	X	X
Field Duplicate	10/4/2012	10/5/2012	1210056-12	GW0776	Water					
Client Sample	10/4/2012	10/5/2012	1210056-13	GW0777	Water	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-14	GW0777	Water					
Client Sample	10/3/2012	10/5/2012	1210056-15	GW0838	Water	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-16	GW0838	Water					

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	10/3/2012	10/5/2012	1210056-17	GW0839	Water	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-18	GW0839	Water					
Client Sample	10/3/2012	10/5/2012	1210056-19	GW0840	Water	X	X	X	X	X
Client Sample	10/3/2012	10/5/2012	1210056-20	GW0840	Water					
Client Sample	10/4/2012	10/5/2012	1210056-21	GW0851	Water	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-22	GW0851	Water					
Client Sample	10/4/2012	10/5/2012	1210056-23	GW0852	Water	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-24	GW0852	Water					
Client Sample	10/4/2012	10/5/2012	1210056-25	GW0853	Water	X	X	X	X	X
Client Sample	10/4/2012	10/5/2012	1210056-26	GW0853	Water					
Trip Blank	10/3/2012	10/5/2012	1210056-27	GW8230-TB	Water				X	

Data for SW8260B Forms

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J12020	5.00/5.00	5.00	5.00	1.00		10/12/12
1210056-03 [GW0749]	2J12020	5.00/5.00	5.00	5.00	1.00		10/12/12
1210056-05 [GW0752]	2J12020	5.00/5.00	5.00	5.00	1.00		10/12/12
1210056-15 [GW0838]	2J12020	5.00/5.00	5.00	5.00	10.00		10/12/12
1210056-19 [GW0840]	2J12020	5.00/5.00	5.00	5.00	1.00		10/12/12
1210056-27 [GW8230-TB]	2J12020	5.00/5.00	5.00	5.00	1.00		10/12/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-07 [GW0758]	2J15015	5.00/5.00	5.00	5.00	1.00		10/15/12
1210056-09 [GW0775]	2J15015	5.00/5.00	5.00	5.00	1.00		10/15/12
1210056-11 [GW0776]	2J15015	5.00/5.00	5.00	5.00	1.00		10/15/12
1210056-13 [GW0777]	2J15015	5.00/5.00	5.00	5.00	1.00		10/15/12
1210056-21 [GW0851]	2J15015	5.00/5.00	5.00	5.00	10.00		10/15/12
1210056-23 [GW0852]	2J15015	5.00/5.00	5.00	5.00	1.00		10/15/12
1210056-25 [GW0853]	2J15015	5.00/5.00	5.00	5.00	1.00		10/15/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-17RE1 [GW0839]	2J15017	5.00/5.00	5.00	5.00	5.00		10/15/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	1005601.D
Sampled:	10/03/12 11:00	Prepared:	10/12/12 13:28	Analyzed:	10/12/12 13:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	UX
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	2.00	U

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	1005601.D
Sampled:	10/03/12 11:00	Prepared:	10/12/12 13:28	Analyzed:	10/12/12 13:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.81	106	75 - 120	
Dibromofluoromethane	30.00	36.06	120	85 - 115	*
1,2-Dichloroethane-d4	30.00	30.25	101	70 - 120	
Toluene-d8	30.00	28.59	95.3	85 - 120	

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	1005603.D
Sampled:	10/03/12 12:17	Prepared:	10/12/12 13:57	Analyzed:	10/12/12 13:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	UX
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	2.00	U

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	1005603.D
Sampled:	10/03/12 12:17	Prepared:	10/12/12 13:57	Analyzed:	10/12/12 13:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.52	105	75 - 120	
Dibromofluoromethane	30.00	34.89	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	29.65	98.8	70 - 120	
Toluene-d8	30.00	28.33	94.4	85 - 120	

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	1005605.D
Sampled:	10/03/12 09:10	Prepared:	10/12/12 14:26	Analyzed:	10/12/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	UX
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	2.00	U

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	1005605.D
Sampled:	10/03/12 09:10	Prepared:	10/12/12 14:26	Analyzed:	10/12/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.92	106	75 - 120	
Dibromofluoromethane	30.00	35.37	118	85 - 115	*
1,2-Dichloroethane-d4	30.00	30.43	101	70 - 120	
Toluene-d8	30.00	28.64	95.5	85 - 120	

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	1005607.D
Sampled:	10/04/12 13:07	Prepared:	10/15/12 12:19	Analyzed:	10/15/12 12:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	1005607.D
Sampled:	10/04/12 13:07	Prepared:	10/15/12 12:19	Analyzed:	10/15/12 12:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	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	**0.310**	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.82	99.4	75 - 120	
Dibromofluoromethane	30.00	33.61	112	85 - 115	
1,2-Dichloroethane-d4	30.00	32.44	108	70 - 120	
Toluene-d8	30.00	28.97	96.6	85 - 120	

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	1005609.D
Sampled:	10/04/12 15:56	Prepared:	10/15/12 12:47	Analyzed:	10/15/12 12:47
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	1005609.D
Sampled:	10/04/12 15:56	Prepared:	10/15/12 12:47	Analyzed:	10/15/12 12:47
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.64	95.5	75 - 120	
Dibromofluoromethane	30.00	35.98	120	85 - 115	*
1,2-Dichloroethane-d4	30.00	32.69	109	70 - 120	
Toluene-d8	30.00	28.52	95.1	85 - 120	

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	1005611.D
Sampled:	10/04/12 10:31	Prepared:	10/15/12 13:14	Analyzed:	10/15/12 13:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	1005611.D
Sampled:	10/04/12 10:31	Prepared:	10/15/12 13:14	Analyzed:	10/15/12 13:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.04	96.8	75 - 120	
Dibromofluoromethane	30.00	35.32	118	85 - 115	*
1,2-Dichloroethane-d4	30.00	32.91	110	70 - 120	
Toluene-d8	30.00	27.58	91.9	85 - 120	

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	1005613.D
Sampled:	10/04/12 10:31	Prepared:	10/15/12 13:42	Analyzed:	10/15/12 13:42
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	1005613.D
Sampled:	10/04/12 10:31	Prepared:	10/15/12 13:42	Analyzed:	10/15/12 13:42
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.41	94.7	75 - 120	
Dibromofluoromethane	30.00	35.12	117	85 - 115	*
1,2-Dichloroethane-d4	30.00	33.39	111	70 - 120	
Toluene-d8	30.00	28.71	95.7	85 - 120	

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	1005615D.D
Sampled:	10/03/12 16:05	Prepared:	10/12/12 19:41	Analyzed:	10/12/12 19:41
Solids:		Preparation:	5030B	Dilution:	10

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**174**	25.0	50.0	100	D
71-43-2	Benzene		2.50	5.00	10.0	U
108-86-1	Bromobenzene		2.50	5.00	10.0	U
74-97-5	Bromochloromethane		2.50	5.00	10.0	U
75-27-4	Bromodichloromethane		2.50	5.00	10.0	U
75-25-2	Bromoform		2.50	5.00	10.0	U
74-83-9	Bromomethane		5.00	10.0	20.0	U
104-51-8	n-Butylbenzene		2.50	5.00	10.0	U
78-93-3	2-Butanone		25.0	50.0	100	U
135-98-8	sec-Butylbenzene		2.50	5.00	10.0	U
98-06-6	tert-Butylbenzene		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		2.50	5.00	10.0	U
56-23-5	Carbon tetrachloride		2.50	5.00	10.0	UX
108-90-7	Chlorobenzene		2.50	5.00	10.0	U
75-00-3	Chloroethane		5.00	10.0	20.0	U
67-66-3	Chloroform		2.50	5.00	10.0	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
95-49-8	2-Chlorotoluene		2.50	5.00	10.0	U
106-43-4	4-Chlorotoluene		2.50	5.00	10.0	U
124-48-1	Dibromochloromethane		2.50	5.00	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.00	10.0	20.0	U
106-93-4	1,2-Dibromoethane (EDB)		2.50	5.00	10.0	U
74-95-3	Dibromomethane		2.50	5.00	10.0	U
95-50-1	1,2-Dichlorobenzene		2.50	5.00	10.0	U
541-73-1	1,3-Dichlorobenzene		2.50	5.00	10.0	U
106-46-7	1,4-Dichlorobenzene		2.50	5.00	10.0	U
75-71-8	Dichlorodifluoromethane		5.00	10.0	20.0	U
75-34-3	1,1-Dichloroethane		2.50	5.00	10.0	U
107-06-2	1,2-Dichloroethane		2.50	5.00	10.0	U
75-35-4	1,1-Dichloroethene		2.50	5.00	10.0	U
156-59-2	cis-1,2-Dichloroethene		2.50	5.00	10.0	U
156-60-5	trans-1,2-Dichloroethene		2.50	5.00	10.0	U
78-87-5	1,2-Dichloropropane		2.50	5.00	10.0	U
142-28-9	1,3-Dichloropropane		2.50	5.00	10.0	U
594-20-7	2,2-Dichloropropane		2.50	5.00	10.0	U
563-58-6	1,1-Dichloropropene		2.50	5.00	10.0	U
10061-01-5	cis-1,3-Dichloropropene		2.50	5.00	10.0	U
10061-02-6	trans-1,3-Dichloropropene		2.50	5.00	10.0	U
100-41-4	Ethylbenzene		2.50	5.00	10.0	U
87-68-3	Hexachlorobutadiene		2.50	5.00	20.0	U

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	1005615D.D
Sampled:	10/03/12 16:05	Prepared:	10/12/12 19:41	Analyzed:	10/12/12 19:41
Solids:		Preparation:	5030B	Dilution:	10

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		12.5	25.0	50.0	U
98-82-8	Isopropylbenzene	**5.90**	2.50	5.00	10.0	JD
99-87-6	p-Isopropyltoluene		2.50	5.00	10.0	U
75-09-2	Methylene chloride		5.00	10.0	20.0	U
91-20-3	Naphthalene		2.50	5.00	20.0	U
108-10-1	4-Methyl-2-pentanone		12.5	25.0	50.0	U
1634-04-4	Methyl t-Butyl Ether		2.50	5.00	10.0	U
103-65-1	n-Propylbenzene		2.50	5.00	10.0	U
100-42-5	Styrene		2.50	5.00	10.0	U
79-34-5	1,1,2,2-Tetrachloroethane		2.50	5.00	10.0	UY
630-20-6	1,1,1,2-Tetrachloroethane		2.50	5.00	10.0	U
127-18-4	Tetrachloroethene		2.50	5.00	10.0	U
108-88-3	Toluene		2.50	5.00	10.0	U
87-61-6	1,2,3-Trichlorobenzene		2.50	5.00	20.0	U
120-82-1	1,2,4-Trichlorobenzene		2.50	5.00	20.0	U
79-00-5	1,1,2-Trichloroethane		2.50	5.00	10.0	U
71-55-6	1,1,1-Trichloroethane		2.50	5.00	10.0	U
79-01-6	Trichloroethene		2.50	5.00	10.0	U
75-69-4	Trichlorofluoromethane		5.00	10.0	20.0	U
96-18-4	1,2,3-Trichloropropane		5.00	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene		2.50	5.00	10.0	U
95-63-6	1,2,4-Trimethylbenzene	**2.90**	2.50	5.00	10.0	JD
75-01-4	Vinyl chloride		2.50	5.00	10.0	U
1330-20-7	Xylenes (total)		7.50	15.0	30.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.56	105	75 - 120	
Dibromofluoromethane	30.00	34.55	115	85 - 115	
1,2-Dichloroethane-d4	30.00	29.58	98.6	70 - 120	
Toluene-d8	30.00	28.59	95.3	85 - 120	

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17RE1	File ID:	1005617R.D
Sampled:	10/03/12 14:07	Prepared:	10/15/12 21:29	Analyzed:	10/15/12 21:29
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2J15017 Sequence: 2J29004 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**354**	12.5	25.0	50.0	D
71-43-2	Benzene	**3.15**	1.25	2.50	5.00	JD
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	UY
104-51-8	n-Butylbenzene	**2.55**	1.25	2.50	5.00	JD
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene	**3.75**	1.25	2.50	5.00	JD
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	UX
108-90-7	Chlorobenzene		1.25	2.50	5.00	UQ
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	UY
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane	**3.05**	1.25	2.50	5.00	JD
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene	**3.40**	1.25	2.50	5.00	JD
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	U

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17RE1	File ID:	1005617R.D
Sampled:	10/03/12 14:07	Prepared:	10/15/12 21:29	Analyzed:	10/15/12 21:29
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2J15017 Sequence: 2J29004 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene	**44.7**	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride	**3.60**	2.50	5.00	10.0	JD
91-20-3	Naphthalene	**2.30**	1.25	2.50	10.0	JD
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene	**22.3**	1.25	2.50	5.00	D
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene	**18.5**	1.25	2.50	5.00	D
95-63-6	1,2,4-Trimethylbenzene	**28.4**	1.25	2.50	5.00	D
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)	**74.0**	3.75	7.50	15.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.21	107	75 - 120	
Dibromofluoromethane	30.00	32.57	109	85 - 115	
1,2-Dichloroethane-d4	30.00	28.32	94.4	70 - 120	
Toluene-d8	30.00	30.00	100	85 - 120	

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	1005619.D
Sampled:	10/03/12 11:38	Prepared:	10/12/12 14:54	Analyzed:	10/12/12 14:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	UX
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	2.00	U

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	1005619.D
Sampled:	10/03/12 11:38	Prepared:	10/12/12 14:54	Analyzed:	10/12/12 14:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.20	104	75 - 120	
Dibromofluoromethane	30.00	36.03	120	85 - 115	*
1,2-Dichloroethane-d4	30.00	30.15	100	70 - 120	
Toluene-d8	30.00	28.48	94.9	85 - 120	

ANALYSIS DATA SHEET

GW0851

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Water Laboratory ID: 1210056-21 File ID: 1005621D.D

Sampled: 10/04/12 15:37 Prepared: 10/15/12 14:10 Analyzed: 10/15/12 14:10

Solids: Preparation: 5030B Dilution: 10

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**147**	25.0	50.0	100	D
71-43-2	Benzene	**21.8**	2.50	5.00	10.0	D
108-86-1	Bromobenzene		2.50	5.00	10.0	U
74-97-5	Bromochloromethane		2.50	5.00	10.0	UX
75-27-4	Bromodichloromethane		2.50	5.00	10.0	U
75-25-2	Bromoform		2.50	5.00	10.0	U
74-83-9	Bromomethane		5.00	10.0	20.0	UQ
104-51-8	n-Butylbenzene		2.50	5.00	10.0	U
78-93-3	2-Butanone		25.0	50.0	100	U
135-98-8	sec-Butylbenzene		2.50	5.00	10.0	U
98-06-6	tert-Butylbenzene		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		2.50	5.00	10.0	U
56-23-5	Carbon tetrachloride		2.50	5.00	10.0	U
108-90-7	Chlorobenzene		2.50	5.00	10.0	U
75-00-3	Chloroethane		5.00	10.0	20.0	U
67-66-3	Chloroform		2.50	5.00	10.0	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
95-49-8	2-Chlorotoluene		2.50	5.00	10.0	U
106-43-4	4-Chlorotoluene		2.50	5.00	10.0	U
124-48-1	Dibromochloromethane		2.50	5.00	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.00	10.0	20.0	U
106-93-4	1,2-Dibromoethane (EDB)	**4.90**	2.50	5.00	10.0	JD
74-95-3	Dibromomethane		2.50	5.00	10.0	U
95-50-1	1,2-Dichlorobenzene		2.50	5.00	10.0	U
541-73-1	1,3-Dichlorobenzene		2.50	5.00	10.0	U
106-46-7	1,4-Dichlorobenzene		2.50	5.00	10.0	U
75-71-8	Dichlorodifluoromethane		5.00	10.0	20.0	U
75-34-3	1,1-Dichloroethane		2.50	5.00	10.0	U
107-06-2	1,2-Dichloroethane		2.50	5.00	10.0	U
75-35-4	1,1-Dichloroethene		2.50	5.00	10.0	U
156-59-2	cis-1,2-Dichloroethene		2.50	5.00	10.0	U
156-60-5	trans-1,2-Dichloroethene		2.50	5.00	10.0	U
78-87-5	1,2-Dichloropropane		2.50	5.00	10.0	U
142-28-9	1,3-Dichloropropane		2.50	5.00	10.0	U
594-20-7	2,2-Dichloropropane		2.50	5.00	10.0	U
563-58-6	1,1-Dichloropropene		2.50	5.00	10.0	U
10061-01-5	cis-1,3-Dichloropropene		2.50	5.00	10.0	U
10061-02-6	trans-1,3-Dichloropropene		2.50	5.00	10.0	U
100-41-4	Ethylbenzene	**2.80**	2.50	5.00	10.0	JD
87-68-3	Hexachlorobutadiene		2.50	5.00	20.0	U

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21	File ID:	1005621D.D
Sampled:	10/04/12 15:37	Prepared:	10/15/12 14:10	Analyzed:	10/15/12 14:10
Solids:		Preparation:	5030B	Dilution:	10

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		12.5	25.0	50.0	U
98-82-8	Isopropylbenzene	**5.50**	2.50	5.00	10.0	JD
99-87-6	p-Isopropyltoluene		2.50	5.00	10.0	U
75-09-2	Methylene chloride	**17.1**	5.00	10.0	20.0	JD
91-20-3	Naphthalene	**7.40**	2.50	5.00	20.0	JD
108-10-1	4-Methyl-2-pentanone		12.5	25.0	50.0	U
1634-04-4	Methyl t-Butyl Ether		2.50	5.00	10.0	U
103-65-1	n-Propylbenzene		2.50	5.00	10.0	U
100-42-5	Styrene		2.50	5.00	10.0	U
79-34-5	1,1,2,2-Tetrachloroethane		2.50	5.00	10.0	U
630-20-6	1,1,1,2-Tetrachloroethane		2.50	5.00	10.0	U
127-18-4	Tetrachloroethene		2.50	5.00	10.0	U
108-88-3	Toluene		2.50	5.00	10.0	U
87-61-6	1,2,3-Trichlorobenzene		2.50	5.00	20.0	U
120-82-1	1,2,4-Trichlorobenzene		2.50	5.00	20.0	U
79-00-5	1,1,2-Trichloroethane		2.50	5.00	10.0	U
71-55-6	1,1,1-Trichloroethane		2.50	5.00	10.0	U
79-01-6	Trichloroethene		2.50	5.00	10.0	U
75-69-4	Trichlorofluoromethane		5.00	10.0	20.0	U
96-18-4	1,2,3-Trichloropropane		5.00	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene	**2.70**	2.50	5.00	10.0	JD
95-63-6	1,2,4-Trimethylbenzene		2.50	5.00	10.0	U
75-01-4	Vinyl chloride		2.50	5.00	10.0	U
1330-20-7	Xylenes (total)	**12.1**	7.50	15.0	30.0	JD

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.81	103	75 - 120	
Dibromofluoromethane	30.00	33.55	112	85 - 115	
1,2-Dichloroethane-d4	30.00	29.88	99.6	70 - 120	
Toluene-d8	30.00	27.27	90.9	85 - 120	

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	1005623.D
Sampled:	10/04/12 13:22	Prepared:	10/15/12 14:37	Analyzed:	10/15/12 14:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	1005623.D
Sampled:	10/04/12 13:22	Prepared:	10/15/12 14:37	Analyzed:	10/15/12 14:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	**0.320**	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	2.00	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	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	34.52	115	85 - 115	
1,2-Dichloroethane-d4	30.00	33.12	110	70 - 120	
Toluene-d8	30.00	27.54	91.8	85 - 120	

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	1005625.D
Sampled:	10/04/12 11:07	Prepared:	10/15/12 15:05	Analyzed:	10/15/12 15:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	1005625.D
Sampled:	10/04/12 11:07	Prepared:	10/15/12 15:05	Analyzed:	10/15/12 15:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.84	96.1	75 - 120	
Dibromofluoromethane	30.00	35.08	117	85 - 115	*
1,2-Dichloroethane-d4	30.00	33.13	110	70 - 120	
Toluene-d8	30.00	28.28	94.3	85 - 120	

ANALYSIS DATA SHEET

GW8230-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-27	File ID:	1005627.D
Sampled:	10/03/12 08:00	Prepared:	10/12/12 12:31	Analyzed:	10/12/12 12:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	UX
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	2.00	U

ANALYSIS DATA SHEET

GW8230-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-27	File ID:	1005627.D
Sampled:	10/03/12 08:00	Prepared:	10/12/12 12:31	Analyzed:	10/12/12 12:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.71	106	75 - 120	
Dibromofluoromethane	30.00	34.66	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	30.44	101	70 - 120	
Toluene-d8	30.00	28.55	95.2	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28901	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J28901-CCV1) ug/L				Lab File ID: 1012CCV1.D		Analyzed: 10/12/12 09:39		
Bromofluorobenzene	30.00	110	80 - 120	12.12	12.12	0.0000	+/-1.000	
Dibromofluoromethane	30.00	110	80 - 120	6.79	6.79	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.4	80 - 120	7.28	7.28	0.0000	+/-1.000	
Toluene-d8	30.00	99.0	80 - 120	9.5	9.5	0.0000	+/-1.000	
LCS (2J12020-BS1) ug/L				Lab File ID: 1012LCS1.D		Analyzed: 10/12/12 10:08		
Bromofluorobenzene	30.00	108	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.78	6.79	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.6	70 - 120	7.29	7.28	0.0100	+/-1.000	
Toluene-d8	30.00	98.8	85 - 120	9.49	9.5	-0.0100	+/-1.000	
Blank (2J12020-BLK1) ug/L				Lab File ID: 1012BLK1.D		Analyzed: 10/12/12 11:34		
Bromofluorobenzene	30.00	106	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	6.78	6.79	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.29	7.28	0.0100	+/-1.000	
Toluene-d8	30.00	99.1	85 - 120	9.49	9.5	-0.0100	+/-1.000	
GW8230-TB (1210056-27) ug/L				Lab File ID: 1005627.D		Analyzed: 10/12/12 12:31		
Bromofluorobenzene	30.00	106	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	6.78	6.79	-0.0100	+/-1.000	*
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.29	7.28	0.0100	+/-1.000	
Toluene-d8	30.00	95.2	85 - 120	9.49	9.5	-0.0100	+/-1.000	
GW0748 (1210056-01) ug/L				Lab File ID: 1005601.D		Analyzed: 10/12/12 13:28		
Bromofluorobenzene	30.00	106	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	120	85 - 115	6.79	6.79	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.28	7.28	0.0000	+/-1.000	
Toluene-d8	30.00	95.3	85 - 120	9.5	9.5	0.0000	+/-1.000	
GW0749 (1210056-03) ug/L				Lab File ID: 1005603.D		Analyzed: 10/12/12 13:57		
Bromofluorobenzene	30.00	105	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	6.78	6.79	-0.0100	+/-1.000	*
1,2-Dichloroethane-d4	30.00	98.8	70 - 120	7.29	7.28	0.0100	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	9.49	9.5	-0.0100	+/-1.000	
GW0752 (1210056-05) ug/L				Lab File ID: 1005605.D		Analyzed: 10/12/12 14:26		
Bromofluorobenzene	30.00	106	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	118	85 - 115	6.78	6.79	-0.0100	+/-1.000	*
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.29	7.28	0.0100	+/-1.000	
Toluene-d8	30.00	95.5	85 - 120	9.49	9.5	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28901	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0840 (1210056-19) ug/L				Lab File ID: 1005619.D		Analyzed: 10/12/12 14:54		
Bromofluorobenzene	30.00	104	75 - 120	12.12	12.12	0.0000	+/-1.000	
Dibromofluoromethane	30.00	120	85 - 115	6.79	6.79	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.28	7.28	0.0000	+/-1.000	
Toluene-d8	30.00	94.9	85 - 120	9.5	9.5	0.0000	+/-1.000	
GW0838 (1210056-15) ug/L				Lab File ID: 1005615D.D		Analyzed: 10/12/12 19:41		
Bromofluorobenzene	30.00	105	75 - 120	12.11	12.12	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	6.78	6.79	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.6	70 - 120	7.28	7.28	0.0000	+/-1.000	
Toluene-d8	30.00	95.3	85 - 120	9.5	9.5	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29004	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J29004-CCV1) ug/L				Lab File ID: 1015CCV1.D		Analyzed: 10/15/12 10:29		
Bromofluorobenzene	30.00	107	80 - 120	12.11	12.11	0.0000	+/-1.000	
Dibromofluoromethane	30.00	108	80 - 120	6.79	6.79	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.4	80 - 120	7.28	7.28	0.0000	+/-1.000	
Toluene-d8	30.00	99.2	80 - 120	9.49	9.49	0.0000	+/-1.000	
LCS (2J15017-BS1) ug/L				Lab File ID: 1015LCS1.D		Analyzed: 10/15/12 10:58		
Bromofluorobenzene	30.00	107	75 - 120	12.11	12.11	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	6.78	6.79	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.8	70 - 120	7.28	7.28	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.5	9.49	0.0100	+/-1.000	
Blank (2J15017-BLK1) ug/L				Lab File ID: 1015BLK1.D		Analyzed: 10/15/12 12:24		
Bromofluorobenzene	30.00	104	75 - 120	12.11	12.11	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.78	6.79	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.27	7.28	-0.0100	+/-1.000	
Toluene-d8	30.00	99.2	85 - 120	9.49	9.49	0.0000	+/-1.000	
GW0839 (1210056-17RE1) ug/L				Lab File ID: 1005617R.D		Analyzed: 10/15/12 21:29		
Bromofluorobenzene	30.00	107	75 - 120	12.11	12.11	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.78	6.79	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.4	70 - 120	7.27	7.28	-0.0100	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.49	9.49	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29005	Instrument:	MS-VOA3
		Calibration:	2213002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J29005-CCV1) ug/L				Lab File ID: 1015CCV1.D		Analyzed: 10/15/12 09:33		
Bromofluorobenzene	30.00	105	80 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.0	80 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	93.5	80 - 120	9.477	9.477	0.0000	+/-1.000	
LCS (2J15015-BS1) ug/L				Lab File ID: 1015LCS1.D		Analyzed: 10/15/12 10:01		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.2	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	94.1	85 - 120	9.477	9.477	0.0000	+/-1.000	
Blank (2J15015-BLK1) ug/L				Lab File ID: 1015BLK1.D		Analyzed: 10/15/12 11:24		
Bromofluorobenzene	30.00	95.9	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	93.3	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0758 (1210056-07) ug/L				Lab File ID: 1005607.D		Analyzed: 10/15/12 12:19		
Bromofluorobenzene	30.00	99.4	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0775 (1210056-09) ug/L				Lab File ID: 1005609.D		Analyzed: 10/15/12 12:47		
Bromofluorobenzene	30.00	95.5	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	120	85 - 115	6.727	6.727	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	109	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	95.1	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0776 (1210056-11) ug/L				Lab File ID: 1005611.D		Analyzed: 10/15/12 13:14		
Bromofluorobenzene	30.00	96.8	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	118	85 - 115	6.727	6.727	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	91.9	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0777 (1210056-13) ug/L				Lab File ID: 1005613.D		Analyzed: 10/15/12 13:42		
Bromofluorobenzene	30.00	94.7	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	117	85 - 115	6.733	6.727	0.0060	+/-1.000	*
1,2-Dichloroethane-d4	30.00	111	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	95.7	85 - 120	9.477	9.477	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29005	Instrument:	MS-VOA3
		Calibration:	2213002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0851 (1210056-21) ug/L				Lab File ID: 1005621D.D		Analyzed: 10/15/12 14:10		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	90.9	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0852 (1210056-23) ug/L				Lab File ID: 1005623.D		Analyzed: 10/15/12 14:37		
Bromofluorobenzene	30.00	105	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	91.8	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0853 (1210056-25) ug/L				Lab File ID: 1005625.D		Analyzed: 10/15/12 15:05		
Bromofluorobenzene	30.00	96.1	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	117	85 - 115	6.733	6.727	0.0060	+/-1.000	*
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	94.3	85 - 120	9.477	9.477	0.0000	+/-1.000	
LCS Dup (2J15015-BSD1) ug/L				Lab File ID: 1015LCD1.D		Analyzed: 10/15/12 20:36		
Bromofluorobenzene	30.00	104	75 - 120	12.111	12.117	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.2	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	90.3	85 - 120	9.477	9.477	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J12020	Laboratory ID:	2J12020-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	86.7	86.7	40 - 140
Benzene	50.00	46.0	92.1	80 - 120
Bromobenzene	50.00	46.1	92.2	75 - 125
Bromochloromethane	50.00	51.6	103	65 - 130
Bromodichloromethane	50.00	52.4	105	75 - 120
Bromoform	50.00	52.5	105	70 - 130
Bromomethane	50.00	50.7	101	30 - 145
n-Butylbenzene	50.00	45.4	90.8	70 - 135
2-Butanone	100.0	80.1	80.1	30 - 150
sec-Butylbenzene	50.00	44.0	87.9	70 - 125
tert-Butylbenzene	50.00	47.3	94.6	70 - 130
Carbon disulfide	50.00	46.7	93.5	35 - 160
Carbon tetrachloride	50.00	61.2	122	65 - 140
Chlorobenzene	50.00	44.2	88.4	80 - 120
Chloroethane	50.00	53.0	106	60 - 135
Chloroform	50.00	48.3	96.6	65 - 135
Chloromethane	50.00	43.3	86.6	40 - 125
2-Chlorotoluene	50.00	41.9	83.8	75 - 125
4-Chlorotoluene	50.00	42.9	85.8	75 - 130
Dibromochloromethane	50.00	50.7	101	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.7	91.4	50 - 130
1,2-Dibromoethane (EDB)	50.00	44.8	89.5	80 - 120
Dibromomethane	50.00	47.2	94.5	75 - 125
1,2-Dichlorobenzene	50.00	43.6	87.1	70 - 120
1,3-Dichlorobenzene	50.00	44.2	88.5	75 - 125
1,4-Dichlorobenzene	50.00	48.2	96.4	75 - 125
Dichlorodifluoromethane	50.00	50.5	101	30 - 155
1,1-Dichloroethane	50.00	47.0	94.0	70 - 135
1,2-Dichloroethane	50.00	52.6	105	70 - 130
1,1-Dichloroethene	50.00	49.6	99.2	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J12020	Laboratory ID:	2J12020-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.4	96.9	70 - 125
trans-1,2-Dichloroethene	50.00	46.6	93.2	60 - 140
1,2-Dichloropropane	50.00	47.0	93.9	75 - 125
1,3-Dichloropropane	50.00	44.5	88.9	75 - 125
2,2-Dichloropropane	50.00	57.6	115	70 - 135
1,1-Dichloropropene	50.00	47.6	95.3	75 - 130
cis-1,3-Dichloropropene	50.00	56.8	114	70 - 130
trans-1,3-Dichloropropene	50.00	48.7	97.3	55 - 140
Ethylbenzene	50.00	46.3	92.6	75 - 125
Hexachlorobutadiene	50.00	49.1	98.2	50 - 140
2-Hexanone	100.0	86.0	86.0	55 - 130
Isopropylbenzene	50.00	48.9	97.9	75 - 125
p-Isopropyltoluene	50.00	47.1	94.3	75 - 130
Methylene chloride	50.00	48.0	96.0	55 - 140
Naphthalene	50.00	49.4	98.8	55 - 140
4-Methyl-2-pentanone	100.0	94.9	94.9	60 - 135
Methyl t-Butyl Ether	50.00	50.0	100	65 - 125
n-Propylbenzene	50.00	41.4	82.8	70 - 130
Styrene	50.00	48.9	97.8	65 - 135
1,1,2,2-Tetrachloroethane	50.00	39.5	78.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.8	110	80 - 130
Tetrachloroethene	50.00	45.4	90.7	45 - 150
Toluene	50.00	46.1	92.2	75 - 120
1,2,3-Trichlorobenzene	50.00	46.5	93.0	55 - 140
1,2,4-Trichlorobenzene	50.00	46.8	93.7	65 - 135
1,1,2-Trichloroethane	50.00	43.1	86.1	75 - 125
1,1,1-Trichloroethane	50.00	56.3	113	65 - 130
Trichloroethene	50.00	49.1	98.2	70 - 125
Trichlorofluoromethane	50.00	52.2	104	60 - 145
1,2,3-Trichloropropane	50.00	47.6	95.1	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J12020	Laboratory ID:	2J12020-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	49.9	99.8	75 - 130
1,2,4-Trimethylbenzene	50.00	49.8	99.7	75 - 130
Vinyl chloride	50.00	67.2	134	50 - 145
Xylenes (total)	150.0	137	91.5	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15015	Laboratory ID:	2J15015-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	108	108	40 - 140
Benzene	50.00	54.8	110	80 - 120
Bromobenzene	50.00	45.3	90.6	75 - 125
Bromochloromethane	50.00	60.3	121	65 - 130
Bromodichloromethane	50.00	48.6	97.3	75 - 120
Bromoform	50.00	53.2	106	70 - 130
Bromomethane	50.00	51.5	103	30 - 145
n-Butylbenzene	50.00	44.6	89.3	70 - 135
2-Butanone	100.0	104	104	30 - 150
sec-Butylbenzene	50.00	43.4	86.7	70 - 125
tert-Butylbenzene	50.00	44.4	88.8	70 - 130
Carbon disulfide	50.00	49.1	98.1	35 - 160
Carbon tetrachloride	50.00	54.9	110	65 - 140
Chlorobenzene	50.00	48.3	96.6	80 - 120
Chloroethane	50.00	57.9	116	60 - 135
Chloroform	50.00	49.7	99.4	65 - 135
Chloromethane	50.00	45.2	90.4	40 - 125
2-Chlorotoluene	50.00	39.8	79.6	75 - 125
4-Chlorotoluene	50.00	40.1	80.1	75 - 130
Dibromochloromethane	50.00	51.6	103	60 - 135
1,2-Dibromo-3-chloropropane	50.00	40.1	80.3	50 - 130
1,2-Dibromoethane (EDB)	50.00	48.9	97.8	80 - 120
Dibromomethane	50.00	49.9	99.8	75 - 125
1,2-Dichlorobenzene	50.00	43.1	86.2	70 - 120
1,3-Dichlorobenzene	50.00	43.7	87.4	75 - 125
1,4-Dichlorobenzene	50.00	46.6	93.1	75 - 125
Dichlorodifluoromethane	50.00	50.3	101	30 - 155
1,1-Dichloroethane	50.00	48.6	97.1	70 - 135
1,2-Dichloroethane	50.00	47.0	94.1	70 - 130
1,1-Dichloroethene	50.00	55.5	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15015	Laboratory ID:	2J15015-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	57.4	115	70 - 125
trans-1,2-Dichloroethene	50.00	58.2	116	60 - 140
1,2-Dichloropropane	50.00	50.8	102	75 - 125
1,3-Dichloropropane	50.00	49.5	98.9	75 - 125
2,2-Dichloropropane	50.00	53.2	106	70 - 135
1,1-Dichloropropene	50.00	52.6	105	75 - 130
cis-1,3-Dichloropropene	50.00	57.1	114	70 - 130
trans-1,3-Dichloropropene	50.00	45.6	91.3	55 - 140
Ethylbenzene	50.00	51.2	102	75 - 125
Hexachlorobutadiene	50.00	44.9	89.9	50 - 140
2-Hexanone	100.0	99.1	99.1	55 - 130
Isopropylbenzene	50.00	54.2	108	75 - 125
p-Isopropyltoluene	50.00	43.2	86.4	75 - 130
Methylene chloride	50.00	50.4	101	55 - 140
Naphthalene	50.00	42.2	84.3	55 - 140
4-Methyl-2-pentanone	100.0	110	110	60 - 135
Methyl t-Butyl Ether	50.00	47.9	95.7	65 - 125
n-Propylbenzene	50.00	39.2	78.3	70 - 130
Styrene	50.00	51.4	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.7	81.4	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.7	105	80 - 130
Tetrachloroethene	50.00	56.5	113	45 - 150
Toluene	50.00	51.7	103	75 - 120
1,2,3-Trichlorobenzene	50.00	44.6	89.2	55 - 140
1,2,4-Trichlorobenzene	50.00	45.8	91.7	65 - 135
1,1,2-Trichloroethane	50.00	49.3	98.5	75 - 125
1,1,1-Trichloroethane	50.00	53.7	107	65 - 130
Trichloroethene	50.00	52.9	106	70 - 125
Trichlorofluoromethane	50.00	56.0	112	60 - 145
1,2,3-Trichloropropane	50.00	50.3	101	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15015	Laboratory ID:	2J15015-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	47.8	95.6	75 - 130
1,2,4-Trimethylbenzene	50.00	46.5	92.9	75 - 130
Vinyl chloride	50.00	61.2	122	50 - 145
Xylenes (total)	150.0	147	98.1	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	91.9	91.9	16.2	30	40 - 140
Benzene	50.00	55.5	111	1.41	30	80 - 120
Bromobenzene	50.00	46.0	91.9	1.40	30	75 - 125
Bromochloromethane	50.00	61.8	124	2.49	30	65 - 130
Bromodichloromethane	50.00	50.3	101	3.37	30	75 - 120
Bromoform	50.00	53.0	106	0.283	30	70 - 130
Bromomethane	50.00	32.2	64.4	46.1 *	30	30 - 145
n-Butylbenzene	50.00	42.2	84.3	5.72	30	70 - 135
2-Butanone	100.0	90.7	90.7	13.9	30	30 - 150
sec-Butylbenzene	50.00	41.3	82.5	4.94	30	70 - 125
tert-Butylbenzene	50.00	43.6	87.2	1.84	30	70 - 130
Carbon disulfide	50.00	48.6	97.3	0.901	30	35 - 160
Carbon tetrachloride	50.00	54.7	109	0.475	30	65 - 140
Chlorobenzene	50.00	49.6	99.3	2.76	30	80 - 120
Chloroethane	50.00	56.4	113	2.63	30	60 - 135
Chloroform	50.00	51.8	104	4.04	30	65 - 135
Chloromethane	50.00	41.2	82.3	9.31	30	40 - 125
2-Chlorotoluene	50.00	40.9	81.8	2.75	30	75 - 125
4-Chlorotoluene	50.00	40.2	80.5	0.448	30	75 - 130
Dibromochloromethane	50.00	53.4	107	3.35	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	39.6	79.2	1.30	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.5	101	3.14	30	80 - 120
Dibromomethane	50.00	52.5	105	5.04	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15015	Laboratory ID:	2J15015-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.
1,2-Dichlorobenzene	50.00	42.6	85.2	1.17	30	70 - 120
1,3-Dichlorobenzene	50.00	42.9	85.8	1.85	30	75 - 125
1,4-Dichlorobenzene	50.00	46.8	93.5	0.407	30	75 - 125
Dichlorodifluoromethane	50.00	50.2	100	0.159	30	30 - 155
1,1-Dichloroethane	50.00	50.8	102	4.41	30	70 - 135
1,2-Dichloroethane	50.00	49.2	98.3	4.43	30	70 - 130
1,1-Dichloroethene	50.00	54.8	110	1.23	30	70 - 130
cis-1,2-Dichloroethene	50.00	58.2	116	1.35	30	70 - 125
trans-1,2-Dichloroethene	50.00	59.0	118	1.21	30	60 - 140
1,2-Dichloropropane	50.00	50.5	101	0.731	30	75 - 125
1,3-Dichloropropane	50.00	49.9	99.8	0.906	30	75 - 125
2,2-Dichloropropane	50.00	44.0	88.1	18.8	30	70 - 135
1,1-Dichloropropene	50.00	51.9	104	1.24	30	75 - 130
cis-1,3-Dichloropropene	50.00	56.0	112	2.00	30	70 - 130
trans-1,3-Dichloropropene	50.00	44.7	89.5	1.99	30	55 - 140
Ethylbenzene	50.00	52.4	105	2.18	30	75 - 125
Hexachlorobutadiene	50.00	37.8	75.7	17.2	30	50 - 140
2-Hexanone	100.0	85.3	85.3	14.9	30	55 - 130
Isopropylbenzene	50.00	53.4	107	1.47	30	75 - 125
p-Isopropyltoluene	50.00	41.7	83.5	3.51	30	75 - 130
Methylene chloride	50.00	51.1	102	1.50	30	55 - 140
Naphthalene	50.00	36.8	73.6	13.5	30	55 - 140
4-Methyl-2-pentanone	100.0	92.6	92.6	17.1	30	60 - 135
Methyl t-Butyl Ether	50.00	44.8	89.6	6.63	30	65 - 125
n-Propylbenzene	50.00	39.4	78.8	0.611	30	70 - 130
Styrene	50.00	51.6	103	0.311	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.9	81.8	0.539	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.1	108	2.70	30	80 - 130
Tetrachloroethene	50.00	55.2	110	2.29	30	45 - 150
Toluene	50.00	53.0	106	2.49	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15015	Laboratory ID:	2J15015-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.
1,2,3-Trichlorobenzene	50.00	38.8	77.5	14.1	30	55 - 140
1,2,4-Trichlorobenzene	50.00	41.1	82.2	10.8	30	65 - 135
1,1,2-Trichloroethane	50.00	49.6	99.3	0.768	30	75 - 125
1,1,1-Trichloroethane	50.00	55.0	110	2.54	30	65 - 130
Trichloroethene	50.00	53.3	107	0.753	30	70 - 125
Trichlorofluoromethane	50.00	57.4	115	2.33	30	60 - 145
1,2,3-Trichloropropane	50.00	51.3	103	1.99	30	75 - 125
1,3,5-Trimethylbenzene	50.00	46.7	93.4	2.31	30	75 - 130
1,2,4-Trimethylbenzene	50.00	46.2	92.3	0.648	30	75 - 130
Vinyl chloride	50.00	60.2	120	1.63	30	50 - 145
Xylenes (total)	150.0	149	99.3	1.20	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15017	Laboratory ID:	2J15017-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	82.6	82.6	40 - 140
Benzene	50.00	41.1	82.2	80 - 120
Bromobenzene	50.00	42.0	84.0	75 - 125
Bromochloromethane	50.00	46.0	92.1	65 - 130
Bromodichloromethane	50.00	48.2	96.4	75 - 120
Bromoform	50.00	48.9	97.9	70 - 130
Bromomethane	50.00	39.7	79.4	30 - 145
n-Butylbenzene	50.00	41.4	82.9	70 - 135
2-Butanone	100.0	86.2	86.2	30 - 150
sec-Butylbenzene	50.00	39.2	78.4	70 - 125
tert-Butylbenzene	50.00	42.8	85.5	70 - 130
Carbon disulfide	50.00	37.6	75.3	35 - 160
Carbon tetrachloride	50.00	55.2	110	65 - 140
Chlorobenzene	**50.00**	**39.6**	**79.3**	**80 - 120**
Chloroethane	50.00	43.9	87.8	60 - 135
Chloroform	50.00	44.4	88.9	65 - 135
Chloromethane	50.00	34.5	69.1	40 - 125
2-Chlorotoluene	50.00	38.8	77.6	75 - 125
4-Chlorotoluene	50.00	39.3	78.6	75 - 130
Dibromochloromethane	50.00	47.8	95.6	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.5	89.1	50 - 130
1,2-Dibromoethane (EDB)	50.00	42.9	85.8	80 - 120
Dibromomethane	50.00	43.0	85.9	75 - 125
1,2-Dichlorobenzene	50.00	40.2	80.4	70 - 120
1,3-Dichlorobenzene	50.00	39.6	79.1	75 - 125
1,4-Dichlorobenzene	50.00	43.1	86.1	75 - 125
Dichlorodifluoromethane	50.00	44.0	88.0	30 - 155
1,1-Dichloroethane	50.00	42.7	85.4	70 - 135
1,2-Dichloroethane	50.00	50.3	101	70 - 130
1,1-Dichloroethene	50.00	39.8	79.5	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15017	Laboratory ID:	2J15017-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	43.3	86.5	70 - 125
trans-1,2-Dichloroethene	50.00	40.4	80.9	60 - 140
1,2-Dichloropropane	50.00	42.8	85.6	75 - 125
1,3-Dichloropropane	50.00	42.8	85.6	75 - 125
2,2-Dichloropropane	50.00	53.4	107	70 - 135
1,1-Dichloropropene	50.00	42.9	85.7	75 - 130
cis-1,3-Dichloropropene	50.00	51.8	104	70 - 130
trans-1,3-Dichloropropene	50.00	47.6	95.2	55 - 140
Ethylbenzene	50.00	41.6	83.1	75 - 125
Hexachlorobutadiene	50.00	43.4	86.9	50 - 140
2-Hexanone	100.0	96.2	96.2	55 - 130
Isopropylbenzene	50.00	43.9	87.9	75 - 125
p-Isopropyltoluene	50.00	43.2	86.5	75 - 130
Methylene chloride	50.00	40.5	81.0	55 - 140
Naphthalene	50.00	47.5	95.1	55 - 140
4-Methyl-2-pentanone	100.0	101	101	60 - 135
Methyl t-Butyl Ether	50.00	47.6	95.2	65 - 125
n-Propylbenzene	50.00	37.8	75.6	70 - 130
Styrene	50.00	43.2	86.5	65 - 135
1,1,2,2-Tetrachloroethane	50.00	38.0	76.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.4	101	80 - 130
Tetrachloroethene	50.00	39.9	79.8	45 - 150
Toluene	50.00	42.0	84.1	75 - 120
1,2,3-Trichlorobenzene	50.00	42.4	84.9	55 - 140
1,2,4-Trichlorobenzene	50.00	42.8	85.7	65 - 135
1,1,2-Trichloroethane	50.00	41.2	82.4	75 - 125
1,1,1-Trichloroethane	50.00	50.9	102	65 - 130
Trichloroethene	50.00	44.0	88.0	70 - 125
Trichlorofluoromethane	50.00	45.4	90.9	60 - 145
1,2,3-Trichloropropane	50.00	45.7	91.4	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J15017	Laboratory ID:	2J15017-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	45.8	91.5	75 - 130
1,2,4-Trimethylbenzene	50.00	44.9	89.7	75 - 130
Vinyl chloride	50.00	54.8	110	50 - 145
Xylenes (total)	150.0	123	82.1	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J12020 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/12/12 13:28	5.00	5.00
GW0749	1210056-03	10/12/12 13:57	5.00	5.00
GW0752	1210056-05	10/12/12 14:26	5.00	5.00
GW0838	1210056-15	10/12/12 19:41	5.00	5.00
GW0840	1210056-19	10/12/12 14:54	5.00	5.00
GW8230-TB	1210056-27	10/12/12 12:31	5.00	5.00
Blank	2J12020-BLK1	10/12/12 11:34	5.00	5.00
LCS	2J12020-BS1	10/12/12 10:08	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J15015 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0758	1210056-07	10/15/12 12:19	5.00	5.00
GW0775	1210056-09	10/15/12 12:47	5.00	5.00
GW0776	1210056-11	10/15/12 13:14	5.00	5.00
GW0777	1210056-13	10/15/12 13:42	5.00	5.00
GW0851	1210056-21	10/15/12 14:10	5.00	5.00
GW0852	1210056-23	10/15/12 14:37	5.00	5.00
GW0853	1210056-25	10/15/12 15:05	5.00	5.00
Blank	2J15015-BLK1	10/15/12 11:24	5.00	5.00
LCS	2J15015-BS1	10/15/12 10:01	5.00	5.00
LCS Dup	2J15015-BSD1	10/15/12 20:36	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J15017 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0839	1210056-17RE1	10/15/12 21:29	5.00	5.00
Blank	2J15017-BLK1	10/15/12 12:24	5.00	5.00
LCS	2J15017-BS1	10/15/12 10:58	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J12020-BLK1 File ID: 1012BLK1.D

Sampled: Prepared: Analyzed: 10/12/12 11:34

Solids: Preparation: 5030B Dilution:

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	UX
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	2.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J12020-BLK1 File ID: 1012BLK1.D

Sampled: Prepared: Analyzed: 10/12/12 11:34

Solids: Preparation: 5030B Dilution:

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.95	106	75 - 120	
Dibromofluoromethane	30.00	34.06	114	85 - 115	
1,2-Dichloroethane-d4	30.00	30.31	101	70 - 120	
Toluene-d8	30.00	29.73	99.1	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J12020-BS1 File ID: 1012LCS1.D

Sampled: Prepared: Analyzed: 10/12/12 10:08

Solids: Preparation: 5030B Dilution:

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**86.7**	2.50	5.00	10.0	
71-43-2	Benzene	**46.0**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**46.1**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**51.6**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**52.4**	0.250	0.500	1.00	
75-25-2	Bromoform	**52.5**	0.250	0.500	1.00	
74-83-9	Bromomethane	**50.7**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**45.4**	0.250	0.500	1.00	
78-93-3	2-Butanone	**80.1**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**44.0**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**47.3**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**46.7**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**61.2**	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	**44.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**53.0**	0.500	1.00	2.00	
67-66-3	Chloroform	**48.3**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.3**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**41.9**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**42.9**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**50.7**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**45.7**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**44.8**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**47.2**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**43.6**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**44.2**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**48.2**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**50.5**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**47.0**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**52.6**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**49.6**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**48.4**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**46.6**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**47.0**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**44.5**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**57.6**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**47.6**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**56.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**48.7**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**46.3**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**49.1**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J12020-BS1 File ID: 1012LCS1.D

Sampled: Prepared: Analyzed: 10/12/12 10:08

Solids: Preparation: 5030B Dilution:

Batch: 2J12020 Sequence: 2J28901 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**86.0**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**48.9**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**47.1**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**48.0**	0.500	1.00	2.00	
91-20-3	Naphthalene	**49.4**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**94.9**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**50.0**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**41.4**	0.250	0.500	1.00	
100-42-5	Styrene	**48.9**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**39.5**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**54.8**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**45.4**	0.250	0.500	1.00	
108-88-3	Toluene	**46.1**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**46.5**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**46.8**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**43.1**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**56.3**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**49.1**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**52.2**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**47.6**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**49.9**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**49.8**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**67.2**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**137**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.35	108	75 - 120	
Dibromofluoromethane	30.00	33.01	110	85 - 115	
1,2-Dichloroethane-d4	30.00	29.59	98.6	70 - 120	
Toluene-d8	30.00	29.65	98.8	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15015-BLK1 File ID: 1015BLK1.D

Sampled: Prepared: Analyzed: 10/15/12 11:24

Solids: Preparation: 5030B Dilution:

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	UX
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	UQ
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	2.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15015-BLK1 File ID: 1015BLK1.D

Sampled: Prepared: Analyzed: 10/15/12 11:24

Solids: Preparation: 5030B Dilution:

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.77	95.9	75 - 120	
Dibromofluoromethane	30.00	33.47	112	85 - 115	
1,2-Dichloroethane-d4	30.00	31.55	105	70 - 120	
Toluene-d8	30.00	28.00	93.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15015-BS1 File ID: 1015LCS1.D

Sampled: Prepared: Analyzed: 10/15/12 10:01

Solids: Preparation: 5030B Dilution:

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**108**	2.50	5.00	10.0	
71-43-2	Benzene	**54.8**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**45.3**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**60.3**	0.250	0.500	1.00	X
75-27-4	Bromodichloromethane	**48.6**	0.250	0.500	1.00	
75-25-2	Bromoform	**53.2**	0.250	0.500	1.00	
74-83-9	Bromomethane	**51.5**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**44.6**	0.250	0.500	1.00	
78-93-3	2-Butanone	**104**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**43.4**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**44.4**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**49.1**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**54.9**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**48.3**	0.250	0.500	1.00	
75-00-3	Chloroethane	**57.9**	0.500	1.00	2.00	
67-66-3	Chloroform	**49.7**	0.250	0.500	1.00	
74-87-3	Chloromethane	**45.2**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.8**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**40.1**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**51.6**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**40.1**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**48.9**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**49.9**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**43.1**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**43.7**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.6**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**50.3**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**48.6**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**47.0**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**55.5**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**57.4**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**58.2**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**50.8**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**49.5**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**53.2**	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	**57.1**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**45.6**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.2**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**44.9**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15015-BS1 File ID: 1015LCS1.D

Sampled: Prepared: Analyzed: 10/15/12 10:01

Solids: Preparation: 5030B Dilution:

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**99.1**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**54.2**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**43.2**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**50.4**	0.500	1.00	2.00	
91-20-3	Naphthalene	**42.2**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**110**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**47.9**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**39.2**	0.250	0.500	1.00	
100-42-5	Styrene	**51.4**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**40.7**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**52.7**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**56.5**	0.250	0.500	1.00	
108-88-3	Toluene	**51.7**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**44.6**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**45.8**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**49.3**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**53.7**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**52.9**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**56.0**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**50.3**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**47.8**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**46.5**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**61.2**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**147**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.84	103	75 - 120	
Dibromofluoromethane	30.00	31.18	104	85 - 115	
1,2-Dichloroethane-d4	30.00	29.47	98.2	70 - 120	
Toluene-d8	30.00	28.23	94.1	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15015-BSD1 File ID: 1015LCD1.D

Sampled: Prepared: Analyzed: 10/15/12 20:36

Solids: Preparation: 5030B Dilution:

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**91.9**	2.50	5.00	10.0	
71-43-2	Benzene	**55.5**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**46.0**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**61.8**	0.250	0.500	1.00	X
75-27-4	Bromodichloromethane	**50.3**	0.250	0.500	1.00	
75-25-2	Bromoform	**53.0**	0.250	0.500	1.00	
74-83-9	Bromomethane	**32.2**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**42.2**	0.250	0.500	1.00	
78-93-3	2-Butanone	**90.7**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**41.3**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**43.6**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**48.6**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**54.7**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**49.6**	0.250	0.500	1.00	
75-00-3	Chloroethane	**56.4**	0.500	1.00	2.00	
67-66-3	Chloroform	**51.8**	0.250	0.500	1.00	
74-87-3	Chloromethane	**41.2**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**40.9**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**40.2**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**53.4**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**39.6**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**50.5**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**52.5**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**42.6**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**42.9**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.8**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**50.2**	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	**49.2**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**54.8**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**58.2**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**59.0**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**50.5**	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	**44.0**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**51.9**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**56.0**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**44.7**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**52.4**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**37.8**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15015-BSD1 File ID: 1015LCD1.D

Sampled: Prepared: Analyzed: 10/15/12 20:36

Solids: Preparation: 5030B Dilution:

Batch: 2J15015 Sequence: 2J29005 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**85.3**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**53.4**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**41.7**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**51.1**	0.500	1.00	2.00	
91-20-3	Naphthalene	**36.8**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**92.6**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**44.8**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**39.4**	0.250	0.500	1.00	
100-42-5	Styrene	**51.6**	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	**54.1**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**55.2**	0.250	0.500	1.00	
108-88-3	Toluene	**53.0**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**38.8**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**41.1**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**49.6**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**55.0**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**53.3**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**57.4**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**51.3**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**46.7**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**46.2**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**60.2**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**149**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.12	104	75 - 120	
Dibromofluoromethane	30.00	31.22	104	85 - 115	
1,2-Dichloroethane-d4	30.00	29.46	98.2	70 - 120	
Toluene-d8	30.00	27.08	90.3	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15017-BLK1 File ID: 1015BLK1.D

Sampled: Prepared: Analyzed: 10/15/12 12:24

Solids: Preparation: 5030B Dilution:

Batch: 2J15017 Sequence: 2J29004 Calibration: 2121003 Instrument: MS-VOA6

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	UY
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	UX
108-90-7	Chlorobenzene		0.250	0.500	1.00	UQ
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	UY
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	2.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15017-BLK1 File ID: 1015BLK1.D

Sampled: Prepared: Analyzed: 10/15/12 12:24

Solids: Preparation: 5030B Dilution:

Batch: 2J15017 Sequence: 2J29004 Calibration: 2121003 Instrument: MS-VOA6

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	2.00	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	UY
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	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.26	104	75 - 120	
Dibromofluoromethane	30.00	32.75	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.18	101	70 - 120	
Toluene-d8	30.00	29.76	99.2	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15017-BS1 File ID: 1015LCS1.D

Sampled: Prepared: Analyzed: 10/15/12 10:58

Solids: Preparation: 5030B Dilution:

Batch: 2J15017 Sequence: 2J29004 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**82.6**	2.50	5.00	10.0	
71-43-2	Benzene	**41.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**42.0**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**46.0**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**48.2**	0.250	0.500	1.00	
75-25-2	Bromoform	**48.9**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.7**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**41.4**	0.250	0.500	1.00	
78-93-3	2-Butanone	**86.2**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**39.2**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**42.8**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**37.6**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**55.2**	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	**39.6**	0.250	0.500	1.00	
75-00-3	Chloroethane	**43.9**	0.500	1.00	2.00	
67-66-3	Chloroform	**44.4**	0.250	0.500	1.00	
74-87-3	Chloromethane	**34.5**	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	**38.8**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**39.3**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**47.8**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**44.5**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**42.9**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**43.0**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**40.2**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**39.6**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**43.1**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**44.0**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**42.7**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**50.3**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**39.8**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**43.3**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**40.4**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**42.8**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**42.8**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**53.4**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**42.9**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**51.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**47.6**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**41.6**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**43.4**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J15017-BS1 File ID: 1015LCS1.D

Sampled: Prepared: Analyzed: 10/15/12 10:58

Solids: Preparation: 5030B Dilution:

Batch: 2J15017 Sequence: 2J29004 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**96.2**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**43.9**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**43.2**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**40.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**47.5**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**101**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**47.6**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**37.8**	0.250	0.500	1.00	
100-42-5	Styrene	**43.2**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**38.0**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**50.4**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**39.9**	0.250	0.500	1.00	
108-88-3	Toluene	**42.0**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**42.4**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**42.8**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**41.2**	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	**44.0**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**45.4**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**45.7**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**45.8**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**44.9**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**54.8**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**123**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.15	107	75 - 120	
Dibromofluoromethane	30.00	32.18	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.33	97.8	70 - 120	
Toluene-d8	30.00	30.04	100	85 - 120	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0427TUN1.D	Injection Date:	04/27/12
Instrument ID:	MS-VOA6	Injection Time:	08:36
Sequence:	2D12109	Lab Sample ID:	2D12109-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.1	PASS
75	30 - 60% of 95	46.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.51	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.6	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.42	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	07/30/12
Instrument ID:	MS-VOA3	Injection Time:	08:21
Sequence:	2G21301	Lab Sample ID:	2G21301-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.1	PASS
75	30 - 60% of 95	44	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.12	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	107	PASS
175	5 - 9% of 174	7.07	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.17	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN1.D	Injection Date:	10/12/12
Instrument ID:	MS-VOA6	Injection Time:	09:10
Sequence:	2J28901	Lab Sample ID:	2J28901-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.5	PASS
75	30 - 60% of 95	50.4	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	69.1	PASS
175	5 - 9% of 174	7.34	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	6.72	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1015TUN1.D	Injection Date:	10/15/12
Instrument ID:	MS-VOA6	Injection Time:	10:01
Sequence:	2J29004	Lab Sample ID:	2J29004-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.9	PASS
75	30 - 60% of 95	51.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.6	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	68	PASS
175	5 - 9% of 174	7.28	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.87	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1015TUN1.D	Injection Date:	10/15/12
Instrument ID:	MS-VOA3	Injection Time:	09:02
Sequence:	2J29005	Lab Sample ID:	2J29005-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.2	PASS
75	30 - 60% of 95	43.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.84	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	123	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.38	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2D12109	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2D12109-TUN1	0427TUN1.D	04/27/12 08:36
Cal Standard	2D12109-CAL1	0427CAL1.D	04/27/12 09:57
Cal Standard	2D12109-CAL2	0427CAL2.D	04/27/12 10:24
Cal Standard	2D12109-CAL3	0427CAL3.D	04/27/12 10:51
Cal Standard	2D12109-CAL4	0427CAL4.D	04/27/12 11:17
Cal Standard	2D12109-CAL5	0427CAL5.D	04/27/12 11:44
Cal Standard	2D12109-CAL6	0427CAL6.D	04/27/12 12:11
Cal Standard	2D12109-CAL7	0427CAL7.D	04/27/12 12:38
Cal Standard	2D12109-CAL8	0427CAL8.D	04/27/12 13:05
Cal Standard	2D12109-CAL9	0427CAL9.D	04/27/12 13:31
Initial Cal Check	2D12109-ICV2	0427ICV2.D	04/27/12 14:52

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21301	Instrument:	MS-VOA3
Calibration:	2213002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G21301-TUN1	SEQTUN1.D	07/30/12 08:21
Cal Standard	2G21301-CAL1	SEQCAL1.D	07/30/12 09:48
Cal Standard	2G21301-CAL2	SEQCAL2.D	07/30/12 10:17
Cal Standard	2G21301-CAL3	SEQCAL3.D	07/30/12 10:45
Cal Standard	2G21301-CAL4	SEQCAL4.D	07/30/12 11:14
Cal Standard	2G21301-CAL5	SEQCAL5.D	07/30/12 11:42
Cal Standard	2G21301-CAL6	SEQCAL6.D	07/30/12 12:11
Cal Standard	2G21301-CAL7	SEQCAL7.D	07/30/12 12:40
Cal Standard	2G21301-CAL8	SEQCAL8.D	07/30/12 13:08
Cal Standard	2G21301-CAL9	SEQCAL9.D	07/30/12 13:37
Initial Cal Check	2G21301-ICV2	SEQICV2.D	07/30/12 15:03

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28901	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J28901-TUN1	1012TUN1.D	10/12/12 09:10
Calibration Check	2J28901-CCV1	1012CCV1.D	10/12/12 09:39
LCS	2J12020-BS1	1012LCS1.D	10/12/12 10:08
Blank	2J12020-BLK1	1012BLK1.D	10/12/12 11:34
GW8230-TB	1210056-27	1005627.D	10/12/12 12:31
GW0748	1210056-01	1005601.D	10/12/12 13:28
GW0749	1210056-03	1005603.D	10/12/12 13:57
GW0752	1210056-05	1005605.D	10/12/12 14:26
GW0840	1210056-19	1005619.D	10/12/12 14:54
GW0838	1210056-15	1005615D.D	10/12/12 19:41

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29004	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J29004-TUN1	1015TUN1.D	10/15/12 10:01
Calibration Check	2J29004-CCV1	1015CCV1.D	10/15/12 10:29
LCS	2J15017-BS1	1015LCS1.D	10/15/12 10:58
Blank	2J15017-BLK1	1015BLK1.D	10/15/12 12:24
GW0839	1210056-17RE1	1005617R.D	10/15/12 21:29

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29005	Instrument:	MS-VOA3
Calibration:	2213002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J29005-TUN1	1015TUN1.D	10/15/12 09:02
Calibration Check	2J29005-CCV1	1015CCV1.D	10/15/12 09:33
LCS	2J15015-BS1	1015LCS1.D	10/15/12 10:01
Blank	2J15015-BLK1	1015BLK1.D	10/15/12 11:24
GW0758	1210056-07	1005607.D	10/15/12 12:19
GW0775	1210056-09	1005609.D	10/15/12 12:47
GW0776	1210056-11	1005611.D	10/15/12 13:14
GW0777	1210056-13	1005613.D	10/15/12 13:42
GW0851	1210056-21	1005621D.D	10/15/12 14:10
GW0852	1210056-23	1005623.D	10/15/12 14:37
GW0853	1210056-25	1005625.D	10/15/12 15:05
LCS Dup	2J15015-BSD1	1015LCD1.D	10/15/12 20:36

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28901	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J28901-CCV1)			Lab File ID: 1012CCV1.D			Analyzed: 10/12/12 09:39			
Fluorobenzene	1092892	7.81	1322112	7.95	83	50 - 200	-0.1400	+/-0.50	
Chlorobenzene-d5	477020	10.91	523124	11.06	91	50 - 200	-0.1500	+/-0.50	
1,4-Dichlorobenzene-d4	415985	13.32	431103	13.45	96	50 - 200	-0.1300	+/-0.50	
LCS (2J12020-BS1)			Lab File ID: 1012LCS1.D			Analyzed: 10/12/12 10:08			
Fluorobenzene	1093897	7.81	1092892	7.81	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	484121	10.92	477020	10.91	101	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	412592	13.31	415985	13.32	99	50 - 200	-0.0100	+/-0.50	
Blank (2J12020-BLK1)			Lab File ID: 1012BLK1.D			Analyzed: 10/12/12 11:34			
Fluorobenzene	979177	7.81	1092892	7.81	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	430036	10.92	477020	10.91	90	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	356521	13.31	415985	13.32	86	50 - 200	-0.0100	+/-0.50	
GW8230-TB (1210056-27)			Lab File ID: 1005627.D			Analyzed: 10/12/12 12:31			
Fluorobenzene	838572	7.81	1092892	7.81	77	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	382879	10.92	477020	10.91	80	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	304465	13.31	415985	13.32	73	50 - 200	-0.0100	+/-0.50	
GW0748 (1210056-01)			Lab File ID: 1005601.D			Analyzed: 10/12/12 13:28			
Fluorobenzene	804613	7.81	1092892	7.81	74	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	375297	10.92	477020	10.91	79	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	298780	13.31	415985	13.32	72	50 - 200	-0.0100	+/-0.50	
GW0749 (1210056-03)			Lab File ID: 1005603.D			Analyzed: 10/12/12 13:57			
Fluorobenzene	814177	7.81	1092892	7.81	74	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	375552	10.92	477020	10.91	79	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	296238	13.31	415985	13.32	71	50 - 200	-0.0100	+/-0.50	
GW0752 (1210056-05)			Lab File ID: 1005605.D			Analyzed: 10/12/12 14:26			
Fluorobenzene	785843	7.81	1092892	7.81	72	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	366183	10.92	477020	10.91	77	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	293768	13.31	415985	13.32	71	50 - 200	-0.0100	+/-0.50	
GW0840 (1210056-19)			Lab File ID: 1005619.D			Analyzed: 10/12/12 14:54			
Fluorobenzene	789634	7.81	1092892	7.81	72	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	371085	10.91	477020	10.91	78	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	294169	13.32	415985	13.32	71	50 - 200	0.0000	+/-0.50	
GW0838 (1210056-15)			Lab File ID: 1005615D.D			Analyzed: 10/12/12 19:41			
Fluorobenzene	776051	7.8	1092892	7.81	71	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	354933	10.91	477020	10.91	74	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	276312	13.31	415985	13.32	66	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29004	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J29004-CCV1)			Lab File ID: 1015CCV1.D			Analyzed: 10/15/12 10:29			
Fluorobenzene	1189534	7.81	1322112	7.95	90	50 - 200	-0.1400	+/-0.50	
Chlorobenzene-d5	506252	10.91	523124	11.06	97	50 - 200	-0.1500	+/-0.50	
1,4-Dichlorobenzene-d4	413550	13.31	431103	13.45	96	50 - 200	-0.1400	+/-0.50	
LCS (2J15017-BS1)			Lab File ID: 1015LCS1.D			Analyzed: 10/15/12 10:58			
Fluorobenzene	1208054	7.8	1189534	7.81	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	508597	10.91	506252	10.91	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	421875	13.32	413550	13.31	102	50 - 200	0.0100	+/-0.50	
Blank (2J15017-BLK1)			Lab File ID: 1015BLK1.D			Analyzed: 10/15/12 12:24			
Fluorobenzene	1095828	7.81	1189534	7.81	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	473858	10.92	506252	10.91	94	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	372117	13.31	413550	13.31	90	50 - 200	0.0000	+/-0.50	
GW0839 (1210056-17RE1)			Lab File ID: 1005617R.D			Analyzed: 10/15/12 21:29			
Fluorobenzene	812003	7.81	1189534	7.81	68	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	346279	10.92	506252	10.91	68	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	283398	13.31	413550	13.31	69	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29005	Instrument:	MS-VOA3
		Calibration:	2213002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J29005-CCV1)			Lab File ID: 1015CCV1.D			Analyzed: 10/15/12 09:33			
Fluorobenzene	399265	7.767	424767	7.767	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	180532	10.912	180527	10.912	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	306166	13.322	265672	13.321	115	50 - 200	0.0010	+/-0.50	
LCS (2J15015-BS1)			Lab File ID: 1015LCS1.D			Analyzed: 10/15/12 10:01			
Fluorobenzene	392201	7.767	399265	7.767	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	178965	10.912	180532	10.912	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	308034	13.322	306166	13.322	101	50 - 200	0.0000	+/-0.50	
Blank (2J15015-BLK1)			Lab File ID: 1015BLK1.D			Analyzed: 10/15/12 11:24			
Fluorobenzene	344247	7.767	399265	7.767	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	163132	10.912	180532	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	268775	13.321	306166	13.322	88	50 - 200	-0.0010	+/-0.50	
GW0758 (1210056-07)			Lab File ID: 1005607.D			Analyzed: 10/15/12 12:19			
Fluorobenzene	347753	7.773	399265	7.767	87	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	164041	10.912	180532	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	267582	13.321	306166	13.322	87	50 - 200	-0.0010	+/-0.50	
GW0775 (1210056-09)			Lab File ID: 1005609.D			Analyzed: 10/15/12 12:47			
Fluorobenzene	330015	7.767	399265	7.767	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	157714	10.919	180532	10.912	87	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	258221	13.322	306166	13.322	84	50 - 200	0.0000	+/-0.50	
GW0776 (1210056-11)			Lab File ID: 1005611.D			Analyzed: 10/15/12 13:14			
Fluorobenzene	325102	7.773	399265	7.767	81	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	155341	10.912	180532	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	249322	13.321	306166	13.322	81	50 - 200	-0.0010	+/-0.50	
GW0777 (1210056-13)			Lab File ID: 1005613.D			Analyzed: 10/15/12 13:42			
Fluorobenzene	328062	7.773	399265	7.767	82	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	154723	10.918	180532	10.912	86	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	256459	13.321	306166	13.322	84	50 - 200	-0.0010	+/-0.50	
GW0851 (1210056-21)			Lab File ID: 1005621D.D			Analyzed: 10/15/12 14:10			
Fluorobenzene	330066	7.773	399265	7.767	83	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	165041	10.912	180532	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	265324	13.322	306166	13.322	87	50 - 200	0.0000	+/-0.50	
GW0852 (1210056-23)			Lab File ID: 1005623.D			Analyzed: 10/15/12 14:37			
Fluorobenzene	329987	7.767	399265	7.767	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	164973	10.912	180532	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	269404	13.321	306166	13.322	88	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29005	Instrument:	MS-VOA3
		Calibration:	2213002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0853 (1210056-25)			Lab File ID: 1005625.D			Analyzed: 10/15/12 15:05			
Fluorobenzene	329046	7.773	399265	7.767	82	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	157933	10.918	180532	10.912	87	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	252077	13.321	306166	13.322	82	50 - 200	-0.0010	+/-0.50	
LCS Dup (2J15015-BSD1)			Lab File ID: 1015LCD1.D			Analyzed: 10/15/12 20:36			
Fluorobenzene	382673	7.767	399265	7.767	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	175907	10.912	180532	10.912	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	305891	13.321	306166	13.322	100	50 - 200	-0.0010	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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	1	~~0.1801176~~	2	0.1071343	4	9.755528E-02	10	8.601011E-02	20	8.151624E-02	100	8.590758E-02
Acrolein	2.502	~~0.0479271~~	5.005	4.244036E-02	10.01	4.136675E-02	25.02	3.939721E-02	50.05	0.0321366	250.2	3.434267E-02
Acrylonitrile	2.498	0.0912397	4.997	9.137988E-02	9.994	8.764754E-02	24.98	7.828111E-02	49.97	8.547037E-02	249.8	7.914204E-02
Benzene	0.5	0.9629495	1	0.9130717	2	0.916093	5	0.9172007	10	0.9526808	50	0.9448895
Bromobenzene	0.5	0.7095771	1	0.6910001	2	0.6980563	5	0.6819994	10	0.7146448	50	0.7114784
Bromochloromethane	0.5	0.1168124	1	0.1114805	2	0.1161442	5	0.11817	10	0.1248881	50	0.1241516
Tert-Amyl Methyl Ether	0.5	0.6591204	1	0.6427836	2	0.6485742	5	0.640684	10	0.6711781	50	0.6883959
Bromodichloromethane	0.5	0.2615357	1	0.2642326	2	0.2727676	5	0.269369	10	0.2959036	50	0.309363
Bromoform	0.5	0.2077016	1	0.2071471	2	0.2074382	5	0.2265467	10	0.2487134	50	0.3191807
Bromomethane	0.5	0.1557798	1	0.1508752	2	0.1465176	5	0.1292704	10	0.1574828	50	0.1505822
Bromofluorobenzene	30	0.8747748	35	0.8431836	40	0.8430485	50	0.8222031	60	0.8076482	70	0.800359
n-Butylbenzene	0.5	2.036998	1	1.955154	2	1.893978	5	1.907572	10	1.994854	50	2.058918
2-Butanone	1	0.1826121	2	0.1688407	4	0.1440387	10	0.1417527	20	0.1393668	100	0.1451565
sec-Butylbenzene	0.5	2.724093	1	2.626513	2	2.545937	5	2.586022	10	2.672613	50	2.779686
tert-Butylbenzene	0.5	1.9504	1	1.863799	2	1.871307	5	1.89602	10	1.975223	50	2.024437
Carbon disulfide	0.5	0.5205995	1	0.5309232	2	0.4872952	5	0.4978307	10	0.5944804	50	0.5476684
Carbon tetrachloride	0.5	0.1888145	1	0.1838791	2	0.1951106	5	0.1963767	10	0.2119815	50	0.2398043
Chlorobenzene	0.5	1.552623	1	1.445801	2	1.427301	5	1.445921	10	1.476692	50	1.449688
Chloroethane	0.5	0.1512853	1	0.1580256	2	0.1500205	5	0.1347753	10	0.1601011	50	0.1404982
Chloroform	0.5	0.4405522	1	0.4151525	2	0.4107461	5	0.40001	10	0.4222335	50	0.4127237
2-Chloroethyl vinyl ether	0.9975	0.1565532	1.995	0.149674	3.99	0.1581098	9.975	0.1611502	19.95	0.1675079	99.75	0.1699233
Chloromethane	0.5	0.3788425	1	0.2596072	2	0.2885362	5	0.2603289	10	0.2827593	50	0.2739572
1-Chlorohexane	0.5	0.9700645	1	0.7938692	2	0.7294273	5	0.6956974	10	0.6994101	50	0.7180541
2-Chlorotoluene	0.5	2.151769	1	2.081807	2	2.01671	5	2.028643	10	2.114715	50	2.108333
4-Chlorotoluene	0.5	2.501631	1	2.404381	2	2.29168	5	2.304939	10	2.419026	50	2.373863
Cyclohexane	0.5	0.4140795	1	0.3786403	2	0.377698	5	0.3938017	10	0.4063337	50	0.4162962
Dibromochloromethane	0.5	0.3676284	1	0.3711177	2	0.3854266	5	0.406309	10	0.4467098	50	0.518439
1,2-Dibromo-3-chloropropane	0.5	~~8.923491E-02~~	1	8.897867E-02	2	9.772513E-02	5	0.1032282	10	0.1102168	50	0.1329612
1,2-Dibromoethane (EDB)	0.5	0.5309435	1	0.5150024	2	0.5338531	5	0.5384039	10	0.5607714	50	0.5646662
Dibromomethane	0.5	0.1576675	1	0.1522382	2	0.1575075	5	0.157498	10	0.1661466	50	0.1658159
1,2-Dichlorobenzene	0.5	1.256783	1	1.219071	2	1.149309	5	1.153506	10	1.207395	50	1.208944

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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	1.31396	1	1.244443	2	1.229276	5	1.221355	10	1.265212	50	1.247947
1,4-Dichlorobenzene	0.5	1.35143	1	1.27373	2	1.227318	5	1.248718	10	1.277693	50	1.255675
Dichlorodifluoromethane	0.5	0.1683195	1	0.1611093	2	0.1663599	5	0.1724241	10	0.2130691	50	0.2174111
1,1-Dichloroethane	0.5	0.4524627	1	0.4473073	2	0.4550976	5	0.4422696	10	0.472133	50	0.4719491
1,2-Dichloroethane	0.5	0.3542575	1	0.342508	2	0.3494061	5	0.3406776	10	0.3634142	50	0.3579977
1,1-Dichloroethene	0.5	0.18023	1	0.1829182	2	0.1878138	5	0.1836743	10	0.1785758	50	0.178688
cis-1,2-Dichloroethene	0.5	0.243333	1	0.2439208	2	0.2514144	5	0.2446177	10	0.2538203	50	0.2475189
trans-1,2-Dichloroethene	0.5	0.238344	1	0.2291282	2	0.2293002	5	0.2266238	10	0.2421863	50	0.2363768
1,2-Dichloroethene (total)	1	0.2408385	2	0.2365245	4	0.2403573	10	0.2356207	20	0.2480033	100	0.2419478
1,2-Dichloropropane	0.5	0.2559176	1	0.2553169	2	0.2579837	5	0.2545473	10	0.2721854	50	0.2647032
1,3-Dichloropropane	0.5	0.9192403	1	0.8614716	2	0.8881191	5	0.8952218	10	0.9160917	50	0.9031252
2,2-Dichloropropane	0.5	0.2989301	1	0.2795391	2	0.2842163	5	0.2882842	10	0.2981496	50	0.3006877
1,1-Dichloropropene	0.5	0.3266612	1	0.3095935	2	0.3151158	5	0.3150822	10	0.3289735	50	0.3266598
cis-1,3-Dichloropropene	0.5	0.3323243	1	0.3255927	2	0.3344992	5	0.3321005	10	0.3621164	50	0.3671761
trans-1,3-Dichloropropene	0.5	0.756377	1	0.7372835	2	0.7589611	5	0.793418	10	0.8336283	50	0.8665259
Diisopropyl Ether	0.5	1.034008	1	1.001045	2	0.994567	5	1.003313	10	1.050524	50	1.02579
Ethylbenzene	0.5	2.554537	1	2.403752	2	2.427694	5	2.47895	10	2.544432	50	2.548168
Ethyl tert-Butyl Ether	0.5	0.7646965	1	0.7663081	2	0.7635321	5	0.768298	10	0.7948713	50	0.785385
Ethyl Methacrylate	0.5	0.7206871	1	0.7056801	2	0.7205363	5	0.7248645	10	0.7575873	50	0.8002675
Hexachlorobutadiene	0.5	0.3296002	1	0.2917494	2	0.2774432	5	0.2739577	10	0.2817864	50	0.2922522
2-Hexanone	1	0.5079596	2	0.4683205	4	0.4739721	10	0.4778848	20	0.4662819	100	0.4970752
Iodomethane	0.5	~~0.13924~~	1	0.1819574	2	0.2066936	5	0.2359951	10	0.2660553	50	0.2769532
Isopropylbenzene	0.5	1.970849	1	2.025179	2	2.011303	5	2.033346	10	2.09977	50	2.126888
p-Isopropyltoluene	0.5	2.141915	1	2.020368	2	2.033851	5	2.052498	10	2.128308	50	2.209439
Methylene chloride	0.5	0.2501197	1	0.2485463	2	0.2087417	5	0.2001706	10	0.2287221	50	0.199494
Methyl Acetate	0.5	0.1741624	1	0.1859125	2	0.1795322	5	0.1606203	10	0.1988943	50	0.1711726
Methylcyclohexane	0.5	0.3150204	1	0.2941306	2	0.2971312	5	0.2965755	10	0.3095118	50	0.3219644
Naphthalene	0.5	1.302164	1	1.248637	2	1.265274	5	1.328147	10	1.372535	50	1.492241
Methyl Methacrylate	0.5	0.2725473	1	0.2654616	2	0.2575361	5	0.2483572	10	0.2621918	50	0.2696424
4-Methyl-2-pentanone	1	0.2825701	2	0.2756957	4	0.2693934	10	0.2640729	20	0.2713857	100	0.2843169
Methyl t-Butyl Ether	0.5	0.6081975	1	0.5833675	2	0.5873237	5	0.5923205	10	0.6148058	50	0.6098324

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2121003
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 4/27/12 9:57 4/27/12 13:31

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	3.417295	1	3.267956	2	3.258523	5	3.233046	10	3.421802	50	3.461269
Styrene	0.5	1.536359	1	1.469448	2	1.497588	5	1.569024	10	1.628757	50	1.638668
1,1,2,2-Tetrachloroethane	0.5	0.8036693	1	0.8065395	2	0.79348	5	0.8067446	10	0.8366444	50	0.8542512
1,1,1,2-Tetrachloroethane	0.5	0.3596094	1	0.3606018	2	0.3660739	5	0.3833928	10	0.4118206	50	0.4541538
tert-Butyl alcohol	2.5	1.889493E-02	5	1.790302E-02	10	1.798231E-02	25	1.809741E-02	50	1.766726E-02	250	1.700114E-02
Tetrachloroethene	0.5	0.5635839	1	0.5069346	2	0.4861446	5	0.5090762	10	0.5212109	50	0.5180552
Toluene	0.5	1.362766	1	1.279828	2	1.326163	5	1.304249	10	1.354235	50	1.317459
1,2,3-Trichlorobenzene	0.5	0.6296404	1	0.599575	2	0.5919841	5	0.6095713	10	0.6370157	50	0.6649169
1,2,4-Trichlorobenzene	0.5	0.7606478	1	0.7021836	2	0.675145	5	0.7034746	10	0.7225698	50	0.7525264
1,1,2-Trichloroethane	0.5	0.435281	1	0.4545218	2	0.4347619	5	0.4350976	10	0.4488943	50	0.4434502
1,1,1-Trichloroethane	0.5	0.2733114	1	0.2661096	2	0.271391	5	0.2817628	10	0.2992965	50	0.3088854
Tetrahydrofuran	0.5	2.521422E-02	1	2.992029E-02	2	2.637809E-02	5	2.622168E-02	10	2.670446E-02	50	2.675506E-02
Trichloroethene	0.5	0.2406362	1	0.2316979	2	0.2307327	5	0.2279489	10	0.2397644	50	0.2392643
Trichlorofluoromethane	0.5	0.3011324	1	0.2663331	2	0.2980937	5	0.3116287	10	0.3175633	50	0.3356837
1,2,3-Trichloropropane	0.5	0.1603786	1	0.1652503	2	0.1762776	5	0.1711143	10	0.1721076	50	0.1752998
1,3,5-Trimethylbenzene	0.5	2.21644	1	2.114309	2	2.097947	5	2.126694	10	2.221626	50	2.240507
1,2,4-Trimethylbenzene	0.5	2.210195	1	2.115148	2	2.089978	5	2.1486	10	2.246429	50	2.259796
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1723646	1	0.1922586	2	0.186773	5	0.184414	10	0.1790899	50	0.1852501
Vinyl chloride	0.5	0.2045902	1	0.185622	2	0.1845795	5	0.1630709	10	0.2004388	50	0.1813677
m,p-Xylene	1	2.002417	2	1.894036	4	1.873731	10	1.89301	20	1.962783	100	1.937909
o-Xylene	0.5	1.980788	1	1.849802	2	1.942643	5	1.992388	10	2.013759	50	1.980534
Vinyl acetate	0.996	0.5876486	1.992	0.5757829	3.984	0.5986996	9.96	0.6331327	19.92	0.6536054	99.62	0.6948853
Xylenes (total)	1.5	1.995207	3	1.879291	6	1.896702	15	1.926136	30	1.979775	150	1.952118
Dibromofluoromethane	30	0.2695277	35	0.2630432	40	0.259221	50	0.2545377	60	0.2525862	70	0.2515808
1,2-Dichloroethane-d4	30	6.300259E-02	35	6.171312E-02	40	6.123085E-02	50	5.958058E-02	60	5.883793E-02	70	5.849536E-02
Toluene-d8	30	2.308584	35	2.221578	40	2.199072	50	2.156851	60	2.10421	70	2.074859
tert-Amyl alcohol	2.5	1.241385E-02	5	1.288427E-02	10	0.0132215	25	1.345847E-02	50	1.370272E-02	250	1.485528E-02
tert-Amyl ethyl ether	0.5	0.6285127	1	0.6134666	2	0.6092029	5	0.6183879	10	0.646779	50	0.6433191

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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	200	7.471387E-02	300	0.0770132	400	7.404267E-02						
Acrolein	500.5	3.050923E-02	750.8	3.130578E-02	1001	3.056155E-02						
Acrylonitrile	499.7	8.365227E-02	749.6	8.621994E-02	999.4	0.084467						
Benzene	100	0.9377479	150	0.9336495	200	0.9053141						
Bromobenzene	100	0.7182263	150	0.7272978	200	0.7267507						
Bromochloromethane	100	0.1224581	150	0.1222339	200	0.1193159						
Tert-Amyl Methyl Ether	100	0.6749814	150	0.6759677	200	0.6696095						
Bromodichloromethane	100	0.3185574	150	0.318914	200	0.3161989						
Bromoform	100	0.3506586	150	0.3711772	200	0.3885488						
Bromomethane	100	0.1604913	150	0.155116	200	0.1514669						
Bromofluorobenzene	30	0.8958014	30	0.9107067	30	0.9258792						
n-Butylbenzene	100	2.05639	150	2.078431	200	1.986144						
2-Butanone	200	0.1417989	300	0.1447502	400	0.1452955						
sec-Butylbenzene	100	2.756524	150	2.77685	200	2.684998						
tert-Butylbenzene	100	2.028362	150	2.044402	200	2.006021						
Carbon disulfide	100	0.5934856	150	0.6030974	200	0.5664481						
Carbon tetrachloride	100	0.2494153	150	0.2610243	200	0.2548589						
Chlorobenzene	100	1.458923	150	1.474705	200	1.487455						
Chloroethane	100	0.1576256	150	0.1414764	200	0.1359614						
Chloroform	100	0.4118854	150	0.4084187	200	0.4033273						
2-Chloroethyl vinyl ether	199.5	0.1668353	299.2	0.1669099	399	0.1614332						
Chloromethane	100	0.2780356	150	0.2706652	200	0.2664843						
1-Chlorohexane	100	0.7097214	150	0.7231164	200	0.7256518						
2-Chlorotoluene	100	2.102836	150	2.118416	200	2.080614						
4-Chlorotoluene	100	2.392896	150	2.402408	200	2.364665						
Cyclohexane	100	0.4005054	150	0.406149	200	0.3857435						
Dibromochloromethane	100	0.5469699	150	0.5789153	200	0.5931025						
1,2-Dibromo-3-chloropropane	100	0.1384731	150	~~0.146163~~	200	~~0.1495986~~						
1,2-Dibromoethane (EDB)	100	0.566303	150	0.5748398	200	0.5788857						
Dibromomethane	100	0.1617228	150	0.1596578	200	0.1595766						
1,2-Dichlorobenzene	100	1.207977	150	1.222466	200	1.207476						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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	1.254005	150	1.276444	200	1.260036						
1,4-Dichlorobenzene	100	1.258258	150	1.262381	200	1.257068						
Dichlorodifluoromethane	100	0.2148317	150	0.2148874	200	0.2039158						
1,1-Dichloroethane	100	0.4643047	150	0.4694452	200	0.4603373						
1,2-Dichloroethane	100	0.352667	150	0.3533085	200	0.3449133						
1,1-Dichloroethene	100	0.1797146	150	0.1790365	200	0.1842444						
cis-1,2-Dichloroethene	100	0.2459143	150	0.2455829	200	0.2395434						
trans-1,2-Dichloroethene	100	0.2358056	150	0.2361538	200	0.228198						
1,2-Dichloroethene (total)	200	0.2408599	300	0.2408683	400	0.2338707						
1,2-Dichloropropane	100	0.2602117	150	0.2597686	200	0.2530029						
1,3-Dichloropropane	100	0.8901245	150	0.900473	200	0.9141893						
2,2-Dichloropropane	100	0.298285	150	0.3023606	200	0.2918012						
1,1-Dichloropropene	100	0.3205383	150	0.3197314	200	0.3087253						
cis-1,3-Dichloropropene	100	0.3710314	150	0.3742965	200	0.3698838						
trans-1,3-Dichloropropene	100	0.8900545	150	0.8931115	200	0.8864539						
Diisopropyl Ether	100	1.010086	150	1.017062	200	0.9930346						
Ethylbenzene	100	2.520833	150	2.567098	200	2.554625						
Ethyl tert-Butyl Ether	100	0.7696659	150	0.7759792	200	0.7615729						
Ethyl Methacrylate	100	0.7924296	150	0.8186302	200	0.8176895						
Hexachlorobutadiene	100	0.2985679	150	0.3142088	200	0.3170123						
2-Hexanone	200	0.4787794	300	0.496152	400	0.4952994						
Iodomethane	100	0.305896	150	0.2941182	200	0.3029534						
Isopropylbenzene	100	2.122517	150	2.140749	200	2.117771						
p-Isopropyltoluene	100	2.181694	150	2.190265	200	2.152492						
Methylene chloride	100	0.2123295	150	0.214426	200	0.2085143						
Methyl Acetate	100	0.1765423	150	0.1855354	200	0.1808324						
Methylcyclohexane	100	0.3083533	150	0.3113591	200	0.300306						
Naphthalene	100	1.540451	150	1.597726	200	1.470014						
Methyl Methacrylate	100	0.2620414	150	0.2648154	200	0.2573468						
4-Methyl-2-pentanone	200	0.2747214	300	0.2768126	400	0.2696402						
Methyl t-Butyl Ether	100	0.6057527	150	0.6179849	200	0.6113409						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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	3.401236	150	3.47307	200	3.363618						
Styrene	100	1.632015	150	1.632322	200	1.63771						
1,1,2,2-Tetrachloroethane	100	0.8383679	150	0.8603034	200	0.8493742						
1,1,1,2-Tetrachloroethane	100	0.4730294	150	0.4863279	200	0.4963508						
tert-Butyl alcohol	500	1.770425E-02	750	1.730916E-02	1000	0.0173273						
Tetrachloroethene	100	0.5191535	150	0.5319872	200	0.5328344						
Toluene	100	1.292795	150	1.278975	200	1.245466						
1,2,3-Trichlorobenzene	100	0.6721853	150	0.701615	200	0.6822393						
1,2,4-Trichlorobenzene	100	0.7687008	150	0.7914642	200	0.7669205						
1,1,2-Trichloroethane	100	0.4415981	150	0.444404	200	0.4457277						
1,1,1-Trichloroethane	100	0.3108855	150	0.3149333	200	0.3105973						
Tetrahydrofuran	100	2.659779E-02	150	2.681471E-02	200	2.683712E-02						
Trichloroethene	100	0.2333937	150	0.2353471	200	0.2279421						
Trichlorofluoromethane	100	0.3128938	150	0.3352327	200	0.3205547						
1,2,3-Trichloropropane	100	0.1761729	150	0.1767071	200	0.1812664						
1,3,5-Trimethylbenzene	100	2.256857	150	2.277194	200	2.230794						
1,2,4-Trimethylbenzene	100	2.285599	150	2.283346	200	2.234423						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1942506	150	0.1822407	200	0.1862248						
Vinyl chloride	100	0.1896973	150	0.1819323	200	0.1721193						
m,p-Xylene	200	1.887316	300	1.871684	400	1.733385						
o-Xylene	100	1.967587	150	1.954629	200	1.949325						
Vinyl acetate	199.2	0.6856328	298.9	0.6976122	398.5	0.6933485						
Xylenes (total)	300	1.914074	450	1.899333	600	1.805365						
Dibromofluoromethane	30	0.2729593	30	0.2727375	30	0.2718363						
1,2-Dichloroethane-d4	30	6.267166E-02	30	0.063738	30	6.480673E-02						
Toluene-d8	30	2.351079	30	2.399675	30	2.438261						
tert-Amyl alcohol	500	1.467905E-02	750	0.0151569	1000	1.531081E-02						
tert-Amyl ethyl ether	100	0.6392434	150	0.6338444	200	0.6188017						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	8.548666E-02	13.62246	3.79875	9.274653E-02			15	
Acrolein	3.525752E-02	14.25592	3.67625	0.1406711			15	
Acrylonitrile	8.527776E-02	5.393199	4.643333	0.1072277			15	
Benzene	0.9315107	2.122697	7.685555	9.539806E-02			15	
Bromobenzene	0.7087812	2.200287	12.42	2.226331E-02			15	
Bromochloromethane	0.1195172	3.640977	6.781111	8.876222E-02			15	
Tert-Amyl Methyl Ether	0.6634772	2.496612	7.881111	4.329758E-02			15	
Bromodichloromethane	0.2918713	8.490543	8.666667	5.634014E-02			15	
Bromoform	0.2807903	27.07999	11.82333	0.0385467		0.9999206	SPCC (0.1)	
Bromomethane	0.1508425	6.0413	2.827778	0.1564675			15	
Bromofluorobenzene	0.8581783	5.320451	12.25222	3.512838E-02			15	
n-Butylbenzene	1.996493	3.36345	13.84778	3.214818E-02			15	
2-Butanone	0.1504013	9.901311	6.253333	8.003784E-02			15	
sec-Butylbenzene	2.683693	3.138093	13.30222	2.896654E-02			15	
tert-Butylbenzene	1.962219	3.583794	13.07222	3.164283E-02			15	
Carbon disulfide	0.549092	7.8436	4.795556	0.1085594			15	
Carbon tetrachloride	0.2201406	14.06956	7.652222	5.963417E-02			15	
Chlorobenzene	1.46879	2.490997	11.1	1.265792E-02			SPCC (0.3)	
Chloroethane	0.1477522	6.651077	2.965556	0.177739			15	
Chloroform	0.4138944	2.873397	6.754445	7.677392E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1620108	4.014319	9.023334	5.188695E-02			15	
Chloromethane	0.2843574	12.91666	2.231111	0.1482605			SPCC (0.1)	
1-Chlorohexane	0.751668	11.54226	11.06222	3.856191E-02			15	
2-Chlorotoluene	2.089316	2.074047	12.63333	4.148019E-02			15	
4-Chlorotoluene	2.383943	2.617429	12.69444	3.969977E-02			15	
Cyclohexane	0.3976941	3.654048	7.583333	6.438874E-02			15	
Dibromochloromethane	0.4682909	19.58175	10.33111	3.516709E-02		0.9999077	0.99	
1,2-Dibromo-3-chloropropane	0.1119305	17.66175	14.45	1.563473E-02		0.9998905	0.99	
1,2-Dibromoethane (EDB)	0.5515188	4.059789	10.55	1.218384E-02			15	
Dibromomethane	0.159759	2.732959	8.607778	5.269306E-02			15	
1,2-Dichlorobenzene	1.203659	2.780049	13.81	8.95784E-03			15	
1,3-Dichlorobenzene	1.256964	2.176385	13.39333	3.806423E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.26803	2.71936	13.48444	3.695711E-02			15	
Dichlorodifluoromethane	0.1924809	12.76598	2.02	0.0136054			15	
1,1-Dichloroethane	0.4594785	2.373803	5.8	1.821231E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3510167	2.112895	7.514445	7.102877E-02			15	
1,1-Dichloroethene	0.1816551	1.754323	4.266667	0.1186659			CCC (20)	
cis-1,2-Dichloroethene	0.2461851	1.74528	6.51	7.808219E-02			15	
trans-1,2-Dichloroethene	0.2335685	2.303894	5.422222	0.1220387			15	
1,2-Dichloroethene (total)	0.2398768	1.736859	6.51	7.808219E-02			15	
1,2-Dichloropropane	0.259293	2.312194	8.492222	4.863254E-02			CCC (20)	
1,3-Dichloropropane	0.8986729	1.994678	10.07333	4.862251E-02			15	
2,2-Dichloropropane	0.2935838	2.733695	6.614444	7.823592E-02			15	
1,1-Dichloropropene	0.319009	2.335894	7.533333	6.861941E-02			15	
cis-1,3-Dichloropropene	0.3521134	5.766677	9.241111	3.306317E-02			15	
trans-1,3-Dichloropropene	0.8239793	7.699482	9.71	1.779117E-02			15	
Diisopropyl Ether	1.014381	1.907698	6.173333	0.0812548			15	
Ethylbenzene	2.511121	2.398092	11.24778	3.875475E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.7722566	1.449832	6.641111	5.284476E-02			15	
Ethyl Methacrylate	0.7620413	5.994742	9.901111	0.0370684			15	
Hexachlorobutadiene	0.2973976	6.462892	15.81111	2.267311E-02			15	
2-Hexanone	0.4846361	3.044602	10.01222	6.526454E-02			15	
Iodomethane	0.2588278	17.84729	4.46125	7.694245E-02		0.9994425	0.99	
Isopropylbenzene	2.072041	2.992551	12.14222	3.773169E-02			15	
p-Isopropyltoluene	2.123426	3.336119	13.44222	3.452873E-02			15	
Methylene chloride	0.2190071	8.77048	4.755556	0.1109935			15	
Methyl Acetate	0.1792449	5.975949	4.631111	7.186884E-02			15	
Methylcyclohexane	0.3060391	3.107595	8.814445	5.861741E-02			15	
Naphthalene	1.40191	9.049186	15.68111	0.0229818			15	
Methyl Methacrylate	0.2622156	2.752967	8.627778	4.639833E-02			15	
4-Methyl-2-pentanone	0.2742899	2.362881	9.17	2.223127E-02			15	
Methyl t-Butyl Ether	0.6034362	2.078315	5.425555	0.0958311			15	
n-Propylbenzene	3.366424	2.705707	12.55111	4.793217E-02			15	
Styrene	1.582432	4.214249	11.72	2.468036E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2121003	Instrument:	MS-VOA6	
Matrix:	Water	Calibration Dates:	4/27/12 9:57	4/27/12 13:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.8277083	3.040542	12.06444	0.0394937			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4212623	13.45017	11.14111	3.262536E-02			15	
tert-Butyl alcohol	0.0177652	3.114812	4.438889	0.1349856			15	
Tetrachloroethene	0.5209978	4.094883	10.44222	4.320136E-02			15	
Toluene	1.306882	2.880498	9.711111	3.882733E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6431937	6.053357	15.96444	3.389544E-02			15	
1,2,4-Trichlorobenzene	0.7381814	5.252041	15.53	7.599921E-03			15	
1,1,2-Trichloroethane	0.4426374	1.531824	9.867778	4.848003E-02			15	
1,1,1-Trichloroethane	0.2930192	6.725129	7.317778	5.889306E-02			15	
Tetrahydrofuran	2.682705E-02	4.716978	6.973333	7.377964E-02			15	
Trichloroethene	0.2340808	2.116677	8.442222	4.746849E-02			15	
Trichlorofluoromethane	0.3110129	6.814927	3.471111	0.1732996			15	
1,2,3-Trichloropropane	0.1727305	3.725216	12.19333	3.802018E-02			15	
1,3,5-Trimethylbenzene	2.198041	3.035595	12.73222	3.176895E-02			15	
1,2,4-Trimethylbenzene	2.208168	3.306208	13.10222	3.678199E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1847629	3.554268	4.348889	7.522899E-02			15	
Vinyl chloride	0.1848242	6.933849	2.381111	0.1402005			CCC (20)	
m,p-Xylene	1.895141	3.964217	11.35333	4.439117E-02			15	
o-Xylene	1.959051	2.382637	11.75	0			15	
Vinyl acetate	0.6467053	7.665063	5.88	1.287752E-02			15	
Xylenes (total)	1.916445	2.97403	11.75	0			15	
Dibromofluoromethane	0.2631144	3.397573	6.932222	0.0649494			15	
1,2-Dichloroethane-d4	6.156409E-02	3.607168	7.423333	6.721134E-02			15	
Toluene-d8	2.250463	5.782973	9.635556	5.182899E-02			15	
tert-Amyl alcohol	1.396476E-02	7.58956	7.14	7.130057E-02			15	
tert-Amyl ethyl ether	0.6279509	2.173103	8.757778	7.543113E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1	6.737113E-02	2	7.904187E-02	4	7.632403E-02	10	5.797594E-02	20	5.638314E-02	100	5.418886E-02
Acrolein	2.508	3.096123E-02	5.015	3.565937E-02	10.03	3.304684E-02	25.08	0.0328328	50.15	2.978939E-02	250.8	0.0285724
Acrylonitrile	2.498	5.935305E-02	4.997	5.881595E-02	9.994	0.0641555	24.98	6.305579E-02	49.97	6.636471E-02	249.8	6.935443E-02
Benzene	0.5	0.7988065	1	0.9747566	2	0.9465063	5	0.9135744	10	0.9653311	50	0.963034
Bromobenzene	0.5	0.6833619	1	0.6603124	2	0.726477	5	0.7338881	10	0.741921	50	0.748983
Bromochloromethane	0.5	0.1478686	1	0.1873703	2	0.187961	5	0.1819833	10	0.1842307	50	0.1948868
Tert-Amyl Methyl Ether	0.5	0.4806123	1	0.5613928	2	0.557663	5	0.5773934	10	0.6066294	50	0.6630443
Bromodichloromethane	0.5	0.3961612	1	0.4479172	2	0.4552556	5	0.4217324	10	0.432042	50	0.431309
Bromoform	0.5	0.5781258	1	0.6451791	2	0.6886235	5	0.6761026	10	0.6912341	50	0.7403898
Bromomethane	0.5	~~0.2829271~~	1	0.2151407	2	0.1921744	5	0.1537931	10	0.1607115	50	0.1659659
Bromofluorobenzene	30	0.9731723	35	0.994452	40	1.014915	50	1.025684	60	0.9860768	70	1.024169
n-Butylbenzene	0.5	1.053117	1	1.182495	2	1.289355	5	1.274521	10	1.38214	50	1.444652
2-Butanone	1	7.962761E-02	2	6.587487E-02	4	7.943398E-02	10	6.614814E-02	20	7.930151E-02	100	0.0817398
sec-Butylbenzene	0.5	1.401396	1	1.758768	2	1.878556	5	1.802391	10	2.03	50	2.094536
tert-Butylbenzene	0.5	1.261671	1	1.619347	2	1.584052	5	1.623092	10	1.756871	50	1.836203
Carbon disulfide	0.5	0.5870461	1	0.6370431	2	0.5988347	5	0.5691278	10	0.6272106	50	0.6190256
Carbon tetrachloride	0.5	0.440759	1	0.5059318	2	0.5006407	5	0.4730071	10	0.4941267	50	0.5018551
Chlorobenzene	0.5	1.798735	1	2.101293	2	2.064482	5	2.103525	10	2.085467	50	2.185676
Chloroethane	0.5	0.1339515	1	0.1349417	2	0.1339081	5	0.1304751	10	0.1462853	50	0.1414813
Chloroform	0.5	0.5342246	1	0.573682	2	0.5287707	5	0.5028317	10	0.5114676	50	0.5101984
2-Chloroethyl vinyl ether	0.9975	0.1045601	1.995	0.12276	3.99	0.1196004	9.975	0.1294288	19.95	0.140159	99.75	0.1530392
Chloromethane	0.5	0.2285241	1	0.2292653	2	0.2387233	5	0.1941871	10	0.2268271	50	0.2244223
1-Chlorohexane	0.5	0.9362728	1	0.8696212	2	0.8122463	5	0.7623178	10	0.7663316	50	0.8441239
2-Chlorotoluene	0.5	1.266846	1	1.376135	2	1.460227	5	1.430061	10	1.475243	50	1.564272
4-Chlorotoluene	0.5	1.476434	1	1.632256	2	1.613592	5	1.684243	10	1.778305	50	1.829767
Cyclohexane	0.5	0.2611027	1	0.2884769	2	0.2777681	5	0.2685931	10	0.286718	50	0.3118672
Dibromochloromethane	0.5	0.8344645	1	0.9018158	2	0.9626109	5	0.9643477	10	0.9454267	50	1.016624
1,2-Dibromo-3-chloropropane	0.5	~~0.117473~~	1	0.1497483	2	0.1392715	5	0.1554403	10	0.1474965	50	0.1767709
1,2-Dibromoethane (EDB)	0.5	0.7064769	1	0.7060728	2	0.6646577	5	0.707769	10	0.7199009	50	0.7378145
Dibromomethane	0.5	0.1628926	1	0.2008565	2	0.2061391	5	0.1757724	10	0.1914941	50	0.1868574
1,2-Dichlorobenzene	0.5	1.148338	1	1.259951	2	1.249517	5	1.208245	10	1.313284	50	1.334291

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1.138764	1	1.328758	2	1.345283	5	1.298727	10	1.356645	50	1.387766
1,4-Dichlorobenzene	0.5	1.249768	1	1.425707	2	1.399408	5	1.360202	10	1.424354	50	1.437403
Dichlorodifluoromethane	0.5	0.2318452	1	0.2424323	2	0.2427762	5	0.2351415	10	0.3046248	50	0.3009447
1,1-Dichloroethane	0.5	0.3673782	1	0.452386	2	0.4329041	5	0.4187748	10	0.4301661	50	0.4257497
1,2-Dichloroethane	0.5	0.3379627	1	0.392536	2	0.3964275	5	0.3948808	10	0.398492	50	0.3992076
1,1-Dichloroethene	0.5	0.2176119	1	0.2535245	2	0.2174151	5	0.2172405	10	0.2328348	50	0.233644
cis-1,2-Dichloroethene	0.5	0.2541441	1	0.2860829	2	0.3078643	5	0.2899342	10	0.2998496	50	0.2980089
trans-1,2-Dichloroethene	0.5	0.258256	1	0.2603873	2	0.2840683	5	0.2690133	10	0.2705786	50	0.2730673
1,2-Dichloroethene (total)	1	0.2562001	2	0.2732351	4	0.2959663	10	0.2794738	20	0.2852141	100	0.2855381
1,2-Dichloropropane	0.5	0.1821867	1	0.2252753	2	0.2229529	5	0.209364	10	0.2164861	50	0.2334376
1,3-Dichloropropane	0.5	0.8319193	1	0.9222363	2	0.9466028	5	0.941539	10	0.9698545	50	0.9943379
2,2-Dichloropropane	0.5	0.3488749	1	0.3931744	2	0.4049748	5	0.3632194	10	0.3789496	50	0.3884398
1,1-Dichloropropene	0.5	0.2944719	1	0.3294143	2	0.3800552	5	0.3205683	10	0.351477	50	0.3603546
cis-1,3-Dichloropropene	0.5	0.3112356	1	0.3784114	2	0.4030487	5	0.3907714	10	0.3999726	50	0.4279354
trans-1,3-Dichloropropene	0.5	0.8493722	1	0.8486487	2	0.9331857	5	0.9692194	10	1.00488	50	1.076993
Diisopropyl Ether	0.5	0.5388109	1	0.6036868	2	0.6416516	5	0.6374474	10	0.6694815	50	0.6957352
Ethylbenzene	0.5	2.488122	1	2.813989	2	2.813529	5	2.830781	10	3.000395	50	3.202767
Ethyl tert-Butyl Ether	0.5	0.5358061	1	0.6282651	2	0.6451427	5	0.601692	10	0.6697528	50	0.7034257
Ethyl Methacrylate	0.5	0.5199496	1	0.5456519	2	0.5788805	5	0.5936151	10	0.6130114	50	0.7217783
Hexachlorobutadiene	0.5	0.282815	1	0.2744524	2	0.2818252	5	0.2456991	10	0.2753235	50	0.2670567
2-Hexanone	1	0.2125248	2	0.2695145	4	0.244007	10	0.2711755	20	0.2674392	100	0.3079642
Iodomethane	0.5		1	0.1782731	2	0.2205452	5	0.2852799	10	0.3403608	50	0.4275286
Isopropylbenzene	0.5	2.285597	1	2.567103	2	2.600706	5	2.741539	10	2.824425	50	3.135925
p-Isopropyltoluene	0.5	1.57062	1	1.802788	2	1.841357	5	1.861054	10	1.967058	50	2.088742
Methylene chloride	0.5	~~0.403436~~	1	0.3491249	2	0.3074229	5	0.261277	10	0.2616872	50	0.2567152
Methyl Acetate	0.5	8.128817E-02	1	0.1090866	2	0.1105535	5	0.1264901	10	0.1246344	50	0.1267548
Methylcyclohexane	0.5	0.2149234	1	0.3142523	2	0.2792127	5	0.2839724	10	0.2800049	50	0.3134089
Naphthalene	0.5	1.44409	1	1.517363	2	1.713348	5	1.804928	10	1.991279	50	2.205326
Methyl Methacrylate	0.5	0.1478686	1	0.1754003	2	0.1541729	5	0.1607667	10	0.1747114	50	0.1921293
4-Methyl-2-pentanone	1	0.1373517	2	0.1487072	4	0.1491569	10	0.167896	20	0.1669866	100	0.1892885
Methyl t-Butyl Ether	0.5	0.5489324	1	0.5471086	2	0.6012424	5	0.5775179	10	0.585149	50	0.6267588

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1.879051	1	1.99191	2	2.180847	5	2.115287	10	2.311565	50	2.37068
Styrene	0.5	1.612207	1	1.868205	2	2.059948	5	2.147887	10	2.142549	50	2.43802
1,1,2,2-Tetrachloroethane	0.5	0.4031343	1	0.477129	2	0.4975544	5	0.5032902	10	0.5033644	50	0.4987123
1,1,1,2-Tetrachloroethane	0.5	0.7690163	1	0.9108303	2	0.8212219	5	0.9093929	10	0.9200469	50	0.9402923
tert-Butyl alcohol	2.5		5		10	1.104331E-02	25	0.0112792	50	1.227274E-02	250	1.320429E-02
Tetrachloroethene	0.5	0.8406458	1	0.9318027	2	0.8408387	5	0.8427754	10	0.8749993	50	0.9184061
Toluene	0.5	1.387865	1	1.508545	2	1.552225	5	1.583872	10	1.582992	50	1.648495
1,2,3-Trichlorobenzene	0.5	0.6057365	1	0.6430139	2	0.6495688	5	0.6687813	10	0.7044227	50	0.7614153
1,2,4-Trichlorobenzene	0.5	0.593834	1	0.6978786	2	0.657871	5	0.7440385	10	0.8046492	50	0.8308033
1,1,2-Trichloroethane	0.5	0.4265041	1	0.4069393	2	0.4560905	5	0.4464292	10	0.4369698	50	0.4728798
1,1,1-Trichloroethane	0.5	0.4436057	1	0.4864606	2	0.4953438	5	0.4801675	10	0.4907081	50	0.4994792
Tetrahydrofuran	0.5		1		2	1.308183E-02	5	1.959772E-02	10	1.883701E-02	50	2.367847E-02
Trichloroethene	0.5	0.2413341	1	0.2862425	2	0.2904085	5	0.2889846	10	0.2924621	50	0.2964053
Trichlorofluoromethane	0.5	0.4198834	1	0.4820716	2	0.4655284	5	0.4221682	10	0.4652433	50	0.4649976
1,2,3-Trichloropropane	0.5	0.1897998	1	0.3114594	2	0.3018395	5	0.30179	10	0.2971028	50	0.3206891
1,3,5-Trimethylbenzene	0.5	1.393634	1	1.585653	2	1.66804	5	1.732408	10	1.858598	50	1.87124
1,2,4-Trimethylbenzene	0.5	1.64514	1	1.629803	2	1.755567	5	1.867448	10	1.964536	50	2.008825
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1957875	1	0.2524073	2	0.2619174	5	0.2312344	10	0.2521292	50	0.2525723
Vinyl chloride	0.5	0.1690604	1	0.2285471	2	0.2195018	5	0.2063909	10	0.2260364	50	0.2270634
m,p-Xylene	1	1.814188	2	2.224644	4	2.331299	10	2.320225	20	2.409944	100	2.579805
o-Xylene	0.5	2.11834	1	2.2045	2	2.336157	5	2.52065	10	2.488508	50	2.708102
Vinyl acetate	0.996	~~0.2947018~~	1.992	0.3172369	3.984	0.3509816	9.96	0.3665926	19.92	0.399567	99.62	0.4436572
Xylenes (total)	1.5	1.915572	3	2.21793	6	2.332918	15	2.387033	30	2.436132	150	2.622571
Dibromofluoromethane	30	0.3035892	35	0.3088054	40	0.3100112	50	0.3109655	60	0.3060666	70	0.2975452
1,2-Dichloroethane-d4	30	6.849135E-02	35	7.104933E-02	40	7.451023E-02	50	7.333501E-02	60	7.339071E-02	70	7.495031E-02
Toluene-d8	30	2.336022	35	2.38849	40	2.398713	50	2.510098	60	2.401292	70	2.389547
tert-Amyl alcohol	2.5		5		10	6.532888E-03	25	7.96673E-03	50	7.779765E-03	250	8.939632E-03
tert-Amyl ethyl ether	0.5	0.4171949	1	0.4590094	2	0.4661304	5	0.4668896	10	0.4960181	50	0.5325136

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	200	5.253551E-02	300	5.600353E-02	400	5.168798E-02						
Acrolein	501.5	2.756648E-02	752.2	2.922781E-02	1003	2.765782E-02						
Acrylonitrile	499.7	6.901541E-02	749.6	7.205678E-02	999.4	6.910276E-02						
Benzene	100	0.9488527	150	1.007826	200	0.976496						
Bromobenzene	100	0.7523149	150	0.7755237	200	0.7917892						
Bromochloromethane	100	0.1871551	150	0.1910638	200	0.183167						
Tert-Amyl Methyl Ether	100	0.6748695	150	0.7235524	200	0.7013315						
Bromodichloromethane	100	0.4219007	150	0.4429173	200	0.4211149						
Bromoform	100	0.7266243	150	0.7513732	200	0.7546702						
Bromomethane	100	0.1684305	150	0.1826879	200	0.1752945						
Bromofluorobenzene	30	1.035817	30	1.031528	30	1.036249						
n-Butylbenzene	100	1.430885	150	1.482847	200	1.529719						
2-Butanone	200	8.330626E-02	300	8.912438E-02	400	8.631599E-02						
sec-Butylbenzene	100	2.075772	150	2.163535	200	2.239904						
tert-Butylbenzene	100	1.845276	150	1.920163	200	1.999558						
Carbon disulfide	100	0.5838526	150	0.6391866	200	0.6224065						
Carbon tetrachloride	100	0.4718163	150	0.4932535	200	0.4759959						
Chlorobenzene	100	2.119603	150	2.24928	200	2.243936						
Chloroethane	100	0.133497	150	0.1445518	200	0.1360128						
Chloroform	100	0.493063	150	0.5169543	200	0.4936804						
2-Chloroethyl vinyl ether	199.5	0.1485952	299.2	0.1587938	399	0.1565833						
Chloromethane	100	0.2159257	150	0.2300218	200	0.2214303						
1-Chlorohexane	100	0.8008536	150	0.8697595	200	0.8653864						
2-Chlorotoluene	100	1.534676	150	1.60552	200	1.593547						
4-Chlorotoluene	100	1.786224	150	1.868208	200	1.885106						
Cyclohexane	100	0.2883458	150	0.3139392	200	0.3094954						
Dibromochloromethane	100	0.9752896	150	1.020333	200	1.033218						
1,2-Dibromo-3-chloropropane	100	0.1755112	150	0.1872966	200	0.1902087						
1,2-Dibromoethane (EDB)	100	0.738232	150	0.775889	200	0.7784123						
Dibromomethane	100	0.184253	150	0.1936452	200	0.1824758						
1,2-Dichlorobenzene	100	1.39339	150	1.431263	200	1.415746						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1.378674	150	1.45289	200	1.451359						
1,4-Dichlorobenzene	100	1.438226	150	1.490508	200	1.500651						
Dichlorodifluoromethane	100	0.267347	150	0.2855424	200	0.2710256						
1,1-Dichloroethane	100	0.4152921	150	0.4353035	200	0.4198495						
1,2-Dichloroethane	100	0.3881679	150	0.4060048	200	0.3796557						
1,1-Dichloroethene	100	0.219962	150	0.2407254	200	0.2361765						
cis-1,2-Dichloroethene	100	0.2894483	150	0.3103318	200	0.2951832						
trans-1,2-Dichloroethene	100	0.2607922	150	0.2835303	200	0.2761394						
1,2-Dichloroethene (total)	200	0.2751202	300	0.296931	400	0.2856613						
1,2-Dichloropropane	100	0.2247321	150	0.2408271	200	0.2326889						
1,3-Dichloropropane	100	0.9695663	150	0.9895869	200	1.014137						
2,2-Dichloropropane	100	0.3762425	150	0.3973504	200	0.3747053						
1,1-Dichloropropene	100	0.3436136	150	0.376008	200	0.3596924						
cis-1,3-Dichloropropene	100	0.4259116	150	0.4495694	200	0.4258076						
trans-1,3-Dichloropropene	100	1.055191	150	1.100522	200	1.09804						
Diisopropyl Ether	100	0.6942905	150	0.7310683	200	0.6971019						
Ethylbenzene	100	3.141936	150	3.316202	200	3.333023						
Ethyl tert-Butyl Ether	100	0.6995925	150	0.7514486	200	0.7181847						
Ethyl Methacrylate	100	0.7173215	150	0.7480546	200	0.7680767						
Hexachlorobutadiene	100	0.2740789	150	0.2915865	200	0.2992581						
2-Hexanone	200	0.3036676	300	0.3194549	400	0.319048						
Iodomethane	100	0.4255338	150	0.4554914	200	0.4369761						
Isopropylbenzene	100	3.021723	150	3.200467	200	3.217561						
p-Isopropyltoluene	100	2.007828	150	2.153997	200	2.146165						
Methylene chloride	100	0.2471329	150	0.2550323	200	0.2474226						
Methyl Acetate	100	0.1277585	150	0.1305362	200	0.1287014						
Methylcyclohexane	100	0.2744556	150	0.3055083	200	0.3063192						
Naphthalene	100	2.255856	150	2.42955	200	2.461145						
Methyl Methacrylate	100	0.1909725	150	0.2049087	200	0.1923744						
4-Methyl-2-pentanone	200	0.1877939	300	0.1966805	400	0.1889982						
Methyl t-Butyl Ether	100	0.6141833	150	0.6673397	200	0.6373129						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.317239	150	2.504254	200	2.543627						
Styrene	100	2.381162	150	2.482839	200	2.522128						
1,1,2,2-Tetrachloroethane	100	0.5024429	150	0.5387855	200	0.5413205						
1,1,1,2-Tetrachloroethane	100	0.9094989	150	0.9582386	200	0.9513637						
tert-Butyl alcohol	500	1.366716E-02	750	1.446934E-02	1000	1.474229E-02						
Tetrachloroethene	100	0.8727797	150	0.931938	200	0.9387236						
Toluene	100	1.588956	150	1.67961	200	1.70926						
1,2,3-Trichlorobenzene	100	0.7932206	150	0.8385999	200	0.846346						
1,2,4-Trichlorobenzene	100	0.8533364	150	0.9092336	200	0.9142508						
1,1,2-Trichloroethane	100	0.4618129	150	0.4745051	200	0.4849631						
1,1,1-Trichloroethane	100	0.4638609	150	0.4973436	200	0.4703412						
Tetrahydrofuran	100	2.350183E-02	150	2.570679E-02	200	0.0256481						
Trichloroethene	100	0.2867405	150	0.3094295	200	0.296094						
Trichlorofluoromethane	100	0.4276914	150	0.4499825	200	0.4380518						
1,2,3-Trichloropropane	100	0.3040515	150	0.3164269	200	0.3087402						
1,3,5-Trimethylbenzene	100	1.88059	150	1.965238	200	2.031861						
1,2,4-Trimethylbenzene	100	1.97451	150	2.075283	200	2.120183						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2272888	150	0.2437857	200	0.2406732						
Vinyl chloride	100	0.2112459	150	0.224359	200	0.2107088						
m,p-Xylene	200	2.512507	300	2.611275	400	2.626766						
o-Xylene	100	2.581849	150	2.717943	200	2.713176						
Vinyl acetate	199.2	0.4377953	298.9	0.4639062	398.5	0.4400004						
Xylenes (total)	300	2.535621	450	2.646831	600	2.655569						
Dibromofluoromethane	30	0.2873976	30	0.297783	30	0.2870823						
1,2-Dichloroethane-d4	30	7.127202E-02	30	6.918436E-02	30	6.858859E-02						
Toluene-d8	30	2.362588	30	2.37198	30	2.453073						
tert-Amyl alcohol	500	9.196477E-03	750	1.079645E-02	1000	1.076468E-02						
tert-Amyl ethyl ether	100	0.5223287	150	0.5618969	200	0.5457975						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.127911E-02	16.92363	3.489556	0.2769129		0.9983323	0.99	
Acrolein	3.059046E-02	9.042267	3.376333	7.786118E-02			15	
Acrylonitrile	6.569715E-02	7.095252	4.357333	0.1704013			15	
Benzene	0.9439093	6.370831	7.5	2.781251E-02			15	
Bromobenzene	0.7349524	5.636576	12.27633	1.968109E-02			15	
Bromochloromethane	0.1828541	7.498248	6.580333	5.424699E-02			15	
Tert-Amyl Methyl Ether	0.6162765	12.93296	7.694666	0.0240391			15	
Bromodichloromethane	0.4300389	4.102128	8.496333	2.508591E-02			15	
Bromoform	0.6947025	8.261521	11.67967	1.393066E-02			SPCC (0.1)	
Bromomethane	0.1767748	11.14876	2.549625	0.1425364			15	
Bromofluorobenzene	1.013563	2.299563	12.11633	2.469625E-02			15	
n-Butylbenzene	1.341081	11.53189	13.71633	1.319746E-02			15	
2-Butanone	7.898584E-02	10.20907	6.031	0.1725912			15	
sec-Butylbenzene	1.938318	13.35342	13.16967	1.150339E-02			15	
tert-Butylbenzene	1.716248	12.97525	12.938	2.081815E-02			15	
Carbon disulfide	0.6093037	4.150462	4.533667	7.199769E-02			15	
Carbon tetrachloride	0.484154	4.30031	7.468333	2.016041E-02			15	
Chlorobenzene	2.105777	6.341832	10.949	1.081874E-02			SPCC (0.3)	
Chloroethane	0.1372338	4.005678	2.682333	9.791205E-02			15	
Chloroform	0.5183192	4.836199	6.555	4.631319E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1370578	13.8323	8.861334	1.149182E-02			15	
Chloromethane	0.2232586	5.632496	1.957	1.354336E-02			SPCC (0.1)	
1-Chlorohexane	0.8363237	6.728935	10.91744	1.891962E-02			15	
2-Chlorotoluene	1.478503	7.480181	12.5	0			15	
4-Chlorotoluene	1.728237	7.872081	12.561	7.068191E-03			15	
Cyclohexane	0.2895896	6.561665	7.401333	2.945346E-02			15	
Dibromochloromethane	0.96157	6.556881	10.178	3.269395E-02			15	
1,2-Dibromo-3-chloropropane	0.165218	11.82885	14.32125	1.750125E-02			15	
1,2-Dibromoethane (EDB)	0.7261361	4.973904	10.395	1.877545E-02			15	
Dibromomethane	0.187154	6.960802	8.433333	0.0332705			15	
1,2-Dichlorobenzene	1.306003	7.460591	13.674	8.933889E-03			15	
1,3-Dichlorobenzene	1.348763	6.977902	13.26078	8.708723E-03			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2213002	Instrument:	MS-VOA3		
Matrix:	Water	Calibration Dates:	7/30/12 9:48	7/30/12 13:37	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.414025	5.293393	13.352	7.502474E-03			15	
Dichlorodifluoromethane	0.2646311	10.62008	1.750222	2.540826E-02			15	
1,1-Dichloroethane	0.4219782	5.521849	5.567667	5.428684E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3881483	5.21031	7.329	4.188113E-03			15	
1,1-Dichloroethene	0.2299039	5.551603	3.971667	9.159627E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2923164	5.638785	6.294333	3.025872E-02			15	
trans-1,2-Dichloroethene	0.2706481	3.555312	5.181111	4.764946E-02			15	
1,2-Dichloroethene (total)	0.2814822	4.437246	6.294333	3.025872E-02			15	
1,2-Dichloropropane	0.2208834	7.812962	8.319667	3.633876E-02			CCC (20)	
1,3-Dichloropropane	0.9533089	5.639417	9.920222	2.212023E-02			15	
2,2-Dichloropropane	0.380659	4.60598	6.404111	2.180096E-02			15	
1,1-Dichloropropene	0.3461839	7.954365	7.347778	0.0317453			15	
cis-1,3-Dichloropropene	0.4014071	10.04126	9.075	5.230454E-03			15	
trans-1,3-Dichloropropene	0.9928947	10.02535	9.550556	2.770872E-02			15	
Diisopropyl Ether	0.656586	8.940648	5.949333	4.557293E-02			15	
Ethylbenzene	2.993416	9.387991	11.101	1.748548E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6614789	10.04625	6.425	6.832556E-02			15	
Ethyl Methacrylate	0.6451489	14.54432	9.743334	1.069978E-02			15	
Hexachlorobutadiene	0.2768995	5.50911	15.688	1.776325E-02			15	
2-Hexanone	0.2794217	13.03604	9.856	0.0333086			15	
Iodomethane	0.3462486	31.03425	4.1735	7.085955E-02	0.9990374		0.995	
Isopropylbenzene	2.843894	11.40757	12.001	0.0227546			15	
p-Isopropyltoluene	1.937734	9.773661	13.309	1.723665E-02			15	
Methylene chloride	0.2732269	13.23693	4.4805	6.443989E-02			15	
Methyl Acetate	0.1184226	13.48682	4.342667	0.1609046			15	
Methylcyclohexane	0.2857842	10.79483	8.649	0.0189802			15	
Naphthalene	1.980321	19.25825	15.56	1.343556E-02		0.9997546	0.99	
Methyl Methacrylate	0.1770339	11.08417	8.454	2.482942E-02			15	
4-Methyl-2-pentanone	0.1703177	12.6742	9.002667	0.0546286			15	
Methyl t-Butyl Ether	0.6006161	6.704845	5.172778	6.088712E-02			15	
n-Propylbenzene	2.246051	9.964759	12.415	0.022024			15	
Styrene	2.183883	14.04007	11.57456	2.092247E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2213002	Instrument:	MS-VOA3		
Matrix:	Water	Calibration Dates:	7/30/12 9:48	7/30/12 13:37	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.4961926	8.131299	11.92733	3.235038E-04			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.898878	7.003265	10.99178	2.130655E-02			15	
tert-Butyl alcohol	1.295405E-02	11.35649	4.120429	0.1656188			15	
Tetrachloroethene	0.888101	4.753778	10.29267	2.470326E-02			15	
Toluene	1.582424	6.084639	9.554555	3.006621E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.7234561	12.34467	15.84733	8.158592E-03			15	
1,2,4-Trichlorobenzene	0.7784328	14.42566	15.40733	1.305204E-02			15	
1,1,2-Trichloroethane	0.4518993	5.575963	9.708	1.627961E-02			15	
1,1,1-Trichloroethane	0.4808123	3.852205	7.122667	3.367217E-02			15	
Tetrahydrofuran	2.143596E-02	21.31035	6.771714	0.1294004	0.9985781		0.995	
Trichloroethene	0.2875668	6.508933	8.270667	2.727798E-02			15	
Trichlorofluoromethane	0.448402	5.002987	3.184	0.1325704			15	
1,2,3-Trichloropropane	0.2946555	13.58789	12.05467	2.887739E-02			15	
1,3,5-Trimethylbenzene	1.776362	11.33083	12.59111	0.0191309			15	
1,2,4-Trimethylbenzene	1.893477	9.525768	12.96878	1.605514E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2397551	8.27233	4.056	7.263164E-02			15	
Vinyl chloride	0.2136571	8.692742	2.111111	0.1383994			CCC (20)	
m,p-Xylene	2.381184	10.73742	11.21011	2.506495E-03			15	
o-Xylene	2.487692	9.010655	11.60533	1.667237E-02			15	
Vinyl acetate	0.4024672	13.05969	5.64475	3.612669E-02			15	
Xylenes (total)	2.416686	9.981037	11.60533	1.667237E-02			15	
Dibromofluoromethane	0.3010273	3.051016	6.729	4.596158E-02			15	
1,2-Dichloroethane-d4	7.164132E-02	3.519973	7.236667	3.348431E-02			15	
Toluene-d8	2.401311	2.156175	9.476778	1.932701E-02			15	
tert-Amyl alcohol	8.853803E-03	17.78507	6.931429	4.807711E-02	0.9950466		0.995	
tert-Amyl ethyl ether	0.4964199	9.599005	8.588889	2.096708E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	169.4	8.548666E-02	7.240282E-02		-15.3	20
Benzene	A	100.0	99.10	0.9315107	0.9230922		-0.9	20
Bromobenzene	A	100.0	101.4	0.7087812	0.719042		1.4	20
Bromochloromethane	A	100.0	99.63	0.1195172	0.11908		-0.4	20
Bromodichloromethane	A	100.0	100.4	0.2918713	0.2931071		0.4	20
Bromoform	Q	100.0	98.14	0.2807903	0.3418473	0.1	-1.9	20
Bromomethane	A	100.0	110.9	0.1508425	0.1673223		10.9	20
n-Butylbenzene	A	100.0	99.93	1.996493	1.995098		-0.07	20
2-Butanone	A	200.0	179.3	0.1504013	0.1348674		-10.3	20
sec-Butylbenzene	A	100.0	100.9	2.683693	2.707207		0.9	20
tert-Butylbenzene	A	100.0	102.1	1.962219	2.003112		2.1	20
Carbon disulfide	A	100.0	85.87	0.549092	0.4714957		-14.1	20
Carbon tetrachloride	A	100.0	109.1	0.2201406	0.2402076		9.1	20
Chlorobenzene	A	100.0	97.51	1.46879	1.432212	0.3	-2.5	20
Chloroethane	A	100.0	107.4	0.1477522	0.1586388		7.4	20
Chloroform	A	100.0	94.73	0.4138944	0.3920877		-5.3	20
Chloromethane	A	100.0	89.50	0.2843574	0.254513	0.1	-10.5	20
2-Chlorotoluene	A	100.0	98.14	2.089316	2.050395		-1.9	20
4-Chlorotoluene	A	100.0	97.30	2.383943	2.319647		-2.7	20
Dibromochloromethane	Q	100.0	98.22	0.4682909	0.5398128		-1.8	20
1,2-Dibromo-3-chloropropane	Q	100.0	96.22	0.1119305	0.1328909		-3.8	20
1,2-Dibromoethane (EDB)	A	100.0	102.4	0.5515188	0.56473		2.4	20
Dibromomethane	A	100.0	97.65	0.159759	0.156001		-2.4	20
1,2-Dichlorobenzene	A	100.0	99.01	1.203659	1.191714		-1.0	20
1,3-Dichlorobenzene	A	100.0	97.90	1.256964	1.23052		-2.1	20
1,4-Dichlorobenzene	A	100.0	98.32	1.26803	1.246685		-1.7	20
Dichlorodifluoromethane	A	100.0	107.4	0.1924809	0.2066581		7.4	20
1,1-Dichloroethane	A	100.0	97.76	0.4594785	0.4491996	0.1	-2.2	20
1,2-Dichloroethane	A	100.0	96.37	0.3510167	0.338278		-3.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	96.12	0.1816551	0.1745999		-3.9	20
cis-1,2-Dichloroethene	A	100.0	98.62	0.2461851	0.2427885		-1.4	20
trans-1,2-Dichloroethene	A	100.0	99.18	0.2335685	0.2316633		-0.8	20
1,2-Dichloropropane	A	100.0	99.78	0.259293	0.2587233		-0.2	20
1,3-Dichloropropane	A	100.0	100.8	0.8986729	0.9061445		0.8	20
2,2-Dichloropropane	A	100.0	95.61	0.2935838	0.2806837		-4.4	20
1,1-Dichloropropene	A	100.0	97.55	0.319009	0.311192		-2.5	20
cis-1,3-Dichloropropene	A	100.0	107.0	0.3521134	0.3767175		7.0	20
trans-1,3-Dichloropropene	A	100.0	96.29	0.8239793	0.7933875		-3.7	20
Ethylbenzene	A	100.0	100.4	2.511121	2.520183		0.4	20
Hexachlorobutadiene	A	100.0	99.17	0.2973976	0.2949307		-0.8	20
2-Hexanone	A	200.0	194.0	0.4846361	0.4700208		-3.0	20
Isopropylbenzene	A	100.0	93.88	2.072041	1.94514		-6.1	20
p-Isopropyltoluene	A	100.0	95.71	2.123426	2.032234		-4.3	20
Methylene chloride	A	100.0	88.72	0.2190071	0.1943103		-11.3	20
Naphthalene	A	100.0	97.13	1.40191	1.361695		-2.9	20
4-Methyl-2-pentanone	A	200.0	193.1	0.2742899	0.2648278		-3.4	20
Methyl t-Butyl Ether	A	100.0	99.11	0.6034362	0.5980958		-0.9	20
n-Propylbenzene	A	100.0	99.53	3.366424	3.350497		-0.5	20
Styrene	A	100.0	101.6	1.582432	1.60805		1.6	20
1,1,2,2-Tetrachloroethane	A	100.0	99.98	0.8277083	0.8275818	0.3	-0.02	20
1,1,1,2-Tetrachloroethane	A	100.0	112.6	0.4212623	0.4744246		12.6	20
Tetrachloroethene	A	100.0	98.83	0.5209978	0.5148846		-1.2	20
Toluene	A	100.0	99.26	1.306882	1.297251		-0.7	20
1,2,3-Trichlorobenzene	A	100.0	100.5	0.6431937	0.6466824		0.5	20
1,2,4-Trichlorobenzene	A	100.0	99.90	0.7381814	0.7374543		-0.1	20
1,1,2-Trichloroethane	A	100.0	101.2	0.4426374	0.4479132		1.2	20
1,1,1-Trichloroethane	A	100.0	103.7	0.2930192	0.3038476		3.7	20
Trichloroethene	A	100.0	97.09	0.2340808	0.2272732		-2.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	96.47	0.3110129	0.3000265		-3.5	20
1,2,3-Trichloropropane	A	100.0	98.20	0.1727305	0.1696184		-1.8	20
1,3,5-Trimethylbenzene	A	100.0	104.0	2.198041	2.284755		3.9	20
1,2,4-Trimethylbenzene	A	100.0	102.2	2.208168	2.255949		2.2	20
Vinyl chloride	A	100.0	101.4	0.1848242	0.1873255		1.4	20
Xylenes (total)	A	300.0	295.8	1.916445	1.889213		-1.4	20
Bromofluorobenzene	A	30.00	31.58	0.8581783	0.9032791		5.3	20
Dibromofluoromethane	A	30.00	30.78	0.2631144	0.269967		2.6	20
1,2-Dichloroethane-d4	A	30.00	31.00	6.156409E-02	6.362317E-02		3.3	20
Toluene-d8	A	30.00	31.76	2.250463	2.382583		5.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQICV2.D	Calibration Date:	07/30/12 09:48
Sequence:	2G21301	Injection Date:	07/30/12
Lab Sample ID:	2G21301-ICV2	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	Q	200.0	183.7	6.127911E-02	5.039898E-02		-8.2	20
Benzene	A	100.0	98.12	0.9439093	0.9261312		-1.9	20
Bromobenzene	A	100.0	99.75	0.7349524	0.7331288		-0.2	20
Bromochloromethane	A	100.0	95.84	0.1828541	0.1752508		-4.2	20
Bromodichloromethane	A	100.0	88.61	0.4300389	0.3810484		-11.4	20
Bromoform	A	100.0	100.1	0.6947025	0.6956394	0.1	0.1	20
Bromomethane	A	100.0	91.96	0.1767748	0.162559		-8.0	20
n-Butylbenzene	A	100.0	102.8	1.341081	1.378312		2.8	20
2-Butanone	A	200.0	207.8	7.898584E-02	8.208541E-02		3.9	20
sec-Butylbenzene	A	100.0	102.3	1.938318	1.983453		2.3	20
tert-Butylbenzene	A	100.0	102.2	1.716248	1.754041		2.2	20
Carbon disulfide	A	100.0	85.74	0.6093037	0.5224242		-14.3	20
Carbon tetrachloride	A	100.0	91.42	0.484154	0.4426293		-8.6	20
Chlorobenzene	A	100.0	96.64	2.105777	2.034926	0.3	-3.4	20
Chloroethane	A	100.0	98.85	0.1372338	0.135659		-1.1	20
Chloroform	A	100.0	88.60	0.5183192	0.4592401		-11.4	20
Chloromethane	A	100.0	84.03	0.2232586	0.1876022	0.1	-16.0	20
2-Chlorotoluene	A	100.0	98.52	1.478503	1.456692		-1.5	20
4-Chlorotoluene	A	100.0	96.97	1.728237	1.675835		-3.0	20
Dibromochloromethane	A	100.0	96.45	0.96157	0.9274602		-3.5	20
1,2-Dibromo-3-chloropropane	A	100.0	99.47	0.165218	0.1643396		-0.5	20
1,2-Dibromoethane (EDB)	A	100.0	98.03	0.7261361	0.7118423		-2.0	20
Dibromomethane	A	100.0	89.54	0.187154	0.1675726		-10.5	20
1,2-Dichlorobenzene	A	100.0	98.65	1.306003	1.288358		-1.4	20
1,3-Dichlorobenzene	A	100.0	96.97	1.348763	1.307847		-3.0	20
1,4-Dichlorobenzene	A	100.0	97.31	1.414025	1.376001		-2.7	20
Dichlorodifluoromethane	A	100.0	90.15	0.2646311	0.2385575		-9.9	20
1,1-Dichloroethane	A	100.0	91.90	0.4219782	0.3877804	0.1	-8.1	20
1,2-Dichloroethane	A	100.0	91.49	0.3881483	0.3551092		-8.5	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQICV2.D	Calibration Date:	07/30/12 09:48
Sequence:	2G21301	Injection Date:	07/30/12
Lab Sample ID:	2G21301-ICV2	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	90.10	0.2299039	0.2071465		-9.9	20
cis-1,2-Dichloroethene	A	100.0	96.15	0.2923164	0.2810583		-3.9	20
trans-1,2-Dichloroethene	A	100.0	95.30	0.2706481	0.2579408		-4.7	20
1,2-Dichloropropane	A	100.0	100.7	0.2208834	0.2225275		0.7	20
1,3-Dichloropropane	A	100.0	101.6	0.9533089	0.9689208		1.6	20
2,2-Dichloropropane	A	100.0	87.96	0.380659	0.3348087		-12.0	20
1,1-Dichloropropene	A	100.0	96.64	0.3461839	0.3345491		-3.4	20
cis-1,3-Dichloropropene	A	100.0	101.6	0.4014071	0.4077756		1.6	20
trans-1,3-Dichloropropene	A	100.0	92.23	0.9928947	0.9157918		-7.8	20
Ethylbenzene	A	100.0	103.2	2.993416	3.090646		3.2	20
Hexachlorobutadiene	A	100.0	93.41	0.2768995	0.2586445		-6.6	20
2-Hexanone	A	200.0	215.6	0.2794217	0.3012799		7.8	20
Isopropylbenzene	A	100.0	98.25	2.843894	2.794159		-1.7	20
p-Isopropyltoluene	A	100.0	94.76	1.937734	1.836263		-5.2	20
Methylene chloride	A	100.0	85.85	0.2732269	0.2345743		-14.1	20
Naphthalene	Q	100.0	92.84	1.980321	2.1244		-7.2	20
4-Methyl-2-pentanone	A	200.0	210.9	0.1703177	0.1796329		5.5	20
Methyl t-Butyl Ether	A	100.0	97.87	0.6006161	0.5877969		-2.1	20
n-Propylbenzene	A	100.0	98.78	2.246051	2.218608		-1.2	20
Styrene	A	100.0	104.4	2.183883	2.278802		4.3	20
1,1,2,2-Tetrachloroethane	A	100.0	98.11	0.4961926	0.4868005	0.3	-1.9	20
1,1,1,2-Tetrachloroethane	A	100.0	97.08	0.898878	0.8726047		-2.9	20
Tetrachloroethene	A	100.0	98.09	0.888101	0.8711469		-1.9	20
Toluene	A	100.0	100.3	1.582424	1.587772		0.3	20
1,2,3-Trichlorobenzene	A	100.0	104.0	0.7234561	0.7525423		4.0	20
1,2,4-Trichlorobenzene	A	100.0	104.5	0.7784328	0.8132379		4.5	20
1,1,2-Trichloroethane	A	100.0	101.9	0.4518993	0.4606312		1.9	20
1,1,1-Trichloroethane	A	100.0	94.05	0.4808123	0.4521803		-6.0	20
Trichloroethene	A	100.0	97.40	0.2875668	0.2800962		-2.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQICV2.D	Calibration Date:	07/30/12 09:48
Sequence:	2G21301	Injection Date:	07/30/12
Lab Sample ID:	2G21301-ICV2	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	92.42	0.448402	0.4144215		-7.6	20
1,2,3-Trichloropropane	A	100.0	98.17	0.2946555	0.2892708		-1.8	20
1,3,5-Trimethylbenzene	A	100.0	106.0	1.776362	1.882185		6.0	20
1,2,4-Trimethylbenzene	A	100.0	100.3	1.893477	1.899645		0.3	20
Vinyl chloride	A	100.0	103.4	0.2136571	0.2210024		3.4	20
Xylenes (total)	A	300.0	307.1	2.416686	2.474198		2.4	20
Bromofluorobenzene	A	30.00	30.06	1.013563	1.015605		0.2	20
Dibromofluoromethane	A	30.00	28.49	0.3010273	0.2858489		-5.0	20
1,2-Dichloroethane-d4	A	30.00	28.50	7.164132E-02	6.806127E-02		-5.0	20
Toluene-d8	A	30.00	30.27	2.401311	2.422749		0.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1012CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2J28901	Injection Date:	10/12/12
Lab Sample ID:	2J28901-CCV1	Injection Time:	09:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	160.8	8.548666E-02	6.872367E-02		-19.6	20
Benzene	A	100.0	92.47	0.9315107	0.8613618		-7.5	20
Bromobenzene	A	100.0	93.63	0.7087812	0.6636196		-6.4	20
Bromochloromethane	A	100.0	104.5	0.1195172	0.1249328		4.5	20
Bromodichloromethane	A	100.0	113.3	0.2918713	0.3305638		13.3	20
Bromoform	Q	100.0	102.7	0.2807903	0.3595277	0.1	2.7	20
Bromomethane	A	100.0	94.96	0.1508425	0.1432432		-5.0	20
n-Butylbenzene	A	100.0	89.69	1.996493	1.790691		-10.3	20
2-Butanone	A	200.0	166.3	0.1504013	0.1250649		-16.8	20
sec-Butylbenzene	A	100.0	91.32	2.683693	2.450845		-8.7	20
tert-Butylbenzene	A	100.0	98.72	1.962219	1.937198		-1.3	20
Carbon disulfide	A	100.0	98.61	0.549092	0.5414783		-1.4	20
Carbon tetrachloride	A	100.0	124.8	0.2201406	0.274783		24.8	20 *
Chlorobenzene	A	100.0	97.62	1.46879	1.433802	0.3	-2.4	20
Chloroethane	A	100.0	95.71	0.1477522	0.1414155		-4.3	20
Chloroform	A	100.0	98.91	0.4138944	0.4093876		-1.1	20
Chloromethane	A	100.0	87.59	0.2843574	0.2490683	0.1	-12.4	20
2-Chlorotoluene	A	100.0	91.23	2.089316	1.906096		-8.8	20
4-Chlorotoluene	A	100.0	91.29	2.383943	2.176255		-8.7	20
Dibromochloromethane	Q	100.0	102.8	0.4682909	0.5670441		2.8	20
1,2-Dibromo-3-chloropropane	Q	100.0	89.98	0.1119305	0.1236102		-10.0	20
1,2-Dibromoethane (EDB)	A	100.0	94.01	0.5515188	0.5185009		-6.0	20
Dibromomethane	A	100.0	96.26	0.159759	0.1537769		-3.7	20
1,2-Dichlorobenzene	A	100.0	95.51	1.203659	1.149567		-4.5	20
1,3-Dichlorobenzene	A	100.0	96.68	1.256964	1.215251		-3.3	20
1,4-Dichlorobenzene	A	100.0	95.69	1.26803	1.213438		-4.3	20
Dichlorodifluoromethane	A	100.0	112.6	0.1924809	0.2168319		12.7	20
1,1-Dichloroethane	A	100.0	93.75	0.4594785	0.4307462	0.1	-6.3	20
1,2-Dichloroethane	A	100.0	109.4	0.3510167	0.3841277		9.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1012CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2J28901	Injection Date:	10/12/12
Lab Sample ID:	2J28901-CCV1	Injection Time:	09:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	99.00	0.1816551	0.1798413		-1.0	20
cis-1,2-Dichloroethene	A	100.0	98.07	0.2461851	0.241439		-1.9	20
trans-1,2-Dichloroethene	A	100.0	89.69	0.2335685	0.2094786		-10.3	20
1,2-Dichloropropane	A	100.0	96.36	0.259293	0.2498434		-3.6	20
1,3-Dichloropropane	A	100.0	91.42	0.8986729	0.8215964		-8.6	20
2,2-Dichloropropane	A	100.0	115.3	0.2935838	0.3383783		15.3	20
1,1-Dichloropropene	A	100.0	96.13	0.319009	0.3066789		-3.9	20
cis-1,3-Dichloropropene	A	100.0	109.7	0.3521134	0.3863531		9.7	20
trans-1,3-Dichloropropene	A	100.0	104.9	0.8239793	0.864087		4.9	20
Ethylbenzene	A	100.0	94.10	2.511121	2.362918		-5.9	20
Hexachlorobutadiene	A	100.0	93.97	0.2973976	0.2794658		-6.0	20
2-Hexanone	A	200.0	185.7	0.4846361	0.4500358		-7.1	20
Isopropylbenzene	A	100.0	99.71	2.072041	2.065976		-0.3	20
p-Isopropyltoluene	A	100.0	99.40	2.123426	2.11067		-0.6	20
Methylene chloride	A	100.0	93.95	0.2190071	0.2057679		-6.0	20
Naphthalene	A	100.0	102.5	1.40191	1.436349		2.5	20
4-Methyl-2-pentanone	A	200.0	203.6	0.2742899	0.2792466		1.8	20
Methyl t-Butyl Ether	A	100.0	96.29	0.6034362	0.5810235		-3.7	20
n-Propylbenzene	A	100.0	89.29	3.366424	3.005974		-10.7	20
Styrene	A	100.0	101.6	1.582432	1.607873		1.6	20
1,1,2,2-Tetrachloroethane	A	100.0	79.23	0.8277083	0.6557934	0.3	-20.8	20 *
1,1,1,2-Tetrachloroethane	A	100.0	116.7	0.4212623	0.4917611		16.7	20
Tetrachloroethene	A	100.0	92.68	0.5209978	0.4828691		-7.3	20
Toluene	A	100.0	91.15	1.306882	1.191193		-8.9	20
1,2,3-Trichlorobenzene	A	100.0	94.36	0.6431937	0.606937		-5.6	20
1,2,4-Trichlorobenzene	A	100.0	95.51	0.7381814	0.705029		-4.5	20
1,1,2-Trichloroethane	A	100.0	87.14	0.4426374	0.3857046		-12.9	20
1,1,1-Trichloroethane	A	100.0	112.1	0.2930192	0.3284487		12.1	20
Trichloroethene	A	100.0	101.1	0.2340808	0.2366784		1.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1012CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2J28901	Injection Date:	10/12/12
Lab Sample ID:	2J28901-CCV1	Injection Time:	09:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	103.0	0.3110129	0.3203295		3.0	20
1,2,3-Trichloropropane	A	100.0	98.12	0.1727305	0.1694778		-1.9	20
1,3,5-Trimethylbenzene	A	100.0	95.82	2.198041	2.106209		-4.2	20
1,2,4-Trimethylbenzene	A	100.0	96.75	2.208168	2.13632		-3.3	20
Vinyl chloride	A	100.0	119.8	0.1848242	0.2213807		19.8	20
Xylenes (total)	A	300.0	291.5	1.916445	1.862322		-2.8	20
Bromofluorobenzene	A	30.00	32.91	0.8581783	0.9413568		9.7	20
Dibromofluoromethane	A	30.00	32.88	0.2631144	0.2883871		9.6	20
1,2-Dichloroethane-d4	A	30.00	29.21	6.156409E-02	5.994279E-02		-2.6	20
Toluene-d8	A	30.00	29.69	2.250463	2.227334		-1.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1015CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2J29004	Injection Date:	10/15/12
Lab Sample ID:	2J29004-CCV1	Injection Time:	10:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	166.2	8.548666E-02	7.106178E-02		-16.9	20
Benzene	A	100.0	85.33	0.9315107	0.7948121		-14.7	20
Bromobenzene	A	100.0	89.37	0.7087812	0.6334509		-10.6	20
Bromochloromethane	A	100.0	96.29	0.1195172	0.1150852		-3.7	20
Bromodichloromethane	A	100.0	106.1	0.2918713	0.3098033		6.1	20
Bromoform	Q	100.0	96.28	0.2807903	0.3345942	0.1	-3.7	20
Bromomethane	A	100.0	76.57	0.1508425	0.1155036		-23.4	20 *
n-Butylbenzene	A	100.0	88.63	1.996493	1.7694		-11.4	20
2-Butanone	A	200.0	175.7	0.1504013	0.1321238		-12.2	20
sec-Butylbenzene	A	100.0	91.15	2.683693	2.446053		-8.9	20
tert-Butylbenzene	A	100.0	96.99	1.962219	1.903104		-3.0	20
Carbon disulfide	A	100.0	83.95	0.549092	0.4609707		-16.0	20
Carbon tetrachloride	A	100.0	120.2	0.2201406	0.2645296		20.2	20 *
Chlorobenzene	A	100.0	88.92	1.46879	1.306077	0.3	-11.1	20
Chloroethane	A	100.0	85.47	0.1477522	0.1262854		-14.5	20
Chloroform	A	100.0	93.38	0.4138944	0.38651		-6.6	20
Chloromethane	A	100.0	79.19	0.2843574	0.2251691	0.1	-20.8	20 *
2-Chlorotoluene	A	100.0	88.73	2.089316	1.853747		-11.3	20
4-Chlorotoluene	A	100.0	89.26	2.383943	2.127896		-10.7	20
Dibromochloromethane	Q	100.0	97.50	0.4682909	0.5354877		-2.5	20
1,2-Dibromo-3-chloropropane	Q	100.0	90.77	0.1119305	0.1247878		-9.2	20
1,2-Dibromoethane (EDB)	A	100.0	90.49	0.5515188	0.4990422		-9.5	20
Dibromomethane	A	100.0	90.79	0.159759	0.1450385		-9.2	20
1,2-Dichlorobenzene	A	100.0	90.08	1.203659	1.084271		-9.9	20
1,3-Dichlorobenzene	A	100.0	88.92	1.256964	1.117687		-11.1	20
1,4-Dichlorobenzene	A	100.0	90.02	1.26803	1.141462		-10.0	20
Dichlorodifluoromethane	A	100.0	107.5	0.1924809	0.206867		7.5	20
1,1-Dichloroethane	A	100.0	88.32	0.4594785	0.4058199	0.1	-11.7	20
1,2-Dichloroethane	A	100.0	108.6	0.3510167	0.3810819		8.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1015CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2J29004	Injection Date:	10/15/12
Lab Sample ID:	2J29004-CCV1	Injection Time:	10:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	85.71	0.1816551	0.1556896		-14.3	20	
cis-1,2-Dichloroethene	A	100.0	87.82	0.2461851	0.2162006		-12.2	20	
trans-1,2-Dichloroethene	A	100.0	82.16	0.2335685	0.1919093		-17.8	20	
1,2-Dichloropropane	A	100.0	89.46	0.259293	0.2319555		-10.5	20	
1,3-Dichloropropane	A	100.0	89.03	0.8986729	0.8000602		-11.0	20	
2,2-Dichloropropane	A	100.0	112.5	0.2935838	0.3303797		12.5	20	
1,1-Dichloropropene	A	100.0	92.56	0.319009	0.2952738		-7.4	20	
cis-1,3-Dichloropropene	A	100.0	102.2	0.3521134	0.3598856		2.2	20	
trans-1,3-Dichloropropene	A	100.0	105.1	0.8239793	0.8663284		5.1	20	
Ethylbenzene	A	100.0	86.63	2.511121	2.175375		-13.4	20	
Hexachlorobutadiene	A	100.0	90.15	0.2973976	0.2680936		-9.9	20	
2-Hexanone	A	200.0	189.7	0.4846361	0.4597137		-5.1	20	
Isopropylbenzene	A	100.0	90.84	2.072041	1.882337		-9.2	20	
p-Isopropyltoluene	A	100.0	98.91	2.123426	2.100316		-1.1	20	
Methylene chloride	A	100.0	81.93	0.2190071	0.1794289		-18.1	20	
Naphthalene	A	100.0	98.04	1.40191	1.374429		-2.0	20	
4-Methyl-2-pentanone	A	200.0	201.7	0.2742899	0.2766804		0.9	20	
Methyl t-Butyl Ether	A	100.0	95.93	0.6034362	0.5788909		-4.1	20	
n-Propylbenzene	A	100.0	86.92	3.366424	2.926068		-13.1	20	
Styrene	A	100.0	90.50	1.582432	1.432176		-9.5	20	
1,1,2,2-Tetrachloroethane	A	100.0	79.14	0.8277083	0.6550163	0.3	-20.9	20	*
1,1,1,2-Tetrachloroethane	A	100.0	108.9	0.4212623	0.4587828		8.9	20	
Tetrachloroethene	A	100.0	85.75	0.5209978	0.4467342		-14.3	20	
Toluene	A	100.0	85.45	1.306882	1.116674		-14.6	20	
1,2,3-Trichlorobenzene	A	100.0	88.60	0.6431937	0.5698549		-11.4	20	
1,2,4-Trichlorobenzene	A	100.0	88.34	0.7381814	0.6521306		-11.7	20	
1,1,2-Trichloroethane	A	100.0	83.44	0.4426374	0.3693402		-16.6	20	
1,1,1-Trichloroethane	A	100.0	106.4	0.2930192	0.3116403		6.4	20	
Trichloroethene	A	100.0	93.96	0.2340808	0.2199402		-6.0	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1015CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2J29004	Injection Date:	10/15/12
Lab Sample ID:	2J29004-CCV1	Injection Time:	10:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	95.74	0.3110129	0.2977486		-4.3	20
1,2,3-Trichloropropane	A	100.0	93.37	0.1727305	0.1612865		-6.6	20
1,3,5-Trimethylbenzene	A	100.0	93.93	2.198041	2.064531		-6.1	20
1,2,4-Trimethylbenzene	A	100.0	94.57	2.208168	2.088236		-5.4	20
Vinyl chloride	A	100.0	105.9	0.1848242	0.1957117		5.9	20
Xylenes (total)	A	300.0	265.2	1.916445	1.694102		-11.6	20
Bromofluorobenzene	A	30.00	32.17	0.8581783	0.9202532		7.2	20
Dibromofluoromethane	A	30.00	32.32	0.2631144	0.2834656		7.7	20
1,2-Dichloroethane-d4	A	30.00	29.51	6.156409E-02	6.056742E-02		-1.6	20
Toluene-d8	A	30.00	29.77	2.250463	2.233488		-0.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	1015CCV1.D	Calibration Date:	07/30/12 09:48
Sequence:	2J29005	Injection Date:	10/15/12
Lab Sample ID:	2J29005-CCV1	Injection Time:	09:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	Q	200.0	206.2	6.127911E-02	5.632049E-02		3.1	20
Benzene	A	100.0	106.2	0.9439093	1.002292		6.2	20
Bromobenzene	A	100.0	97.02	0.7349524	0.713021		-3.0	20
Bromochloromethane	A	100.0	122.7	0.1828541	0.2243901		22.7	20 *
Bromodichloromethane	A	100.0	102.7	0.4300389	0.441784		2.7	20
Bromoform	A	100.0	107.3	0.6947025	0.745377	0.1	7.3	20
Bromomethane	A	100.0	97.22	0.1767748	0.1718565		-2.8	20
n-Butylbenzene	A	100.0	95.39	1.341081	1.279293		-4.6	20
2-Butanone	A	200.0	214.4	7.898584E-02	8.467572E-02		7.2	20
sec-Butylbenzene	A	100.0	98.99	1.938318	1.918776		-1.0	20
tert-Butylbenzene	A	100.0	100.9	1.716248	1.732071		0.9	20
Carbon disulfide	A	100.0	106.2	0.6093037	0.646823		6.2	20
Carbon tetrachloride	A	100.0	111.4	0.484154	0.5392757		11.4	20
Chlorobenzene	A	100.0	106.1	2.105777	2.233918	0.3	6.1	20
Chloroethane	A	100.0	107.7	0.1372338	0.1477628		7.7	20
Chloroform	A	100.0	101.7	0.5183192	0.5269365		1.7	20
Chloromethane	A	100.0	94.62	0.2232586	0.2112364	0.1	-5.4	20
2-Chlorotoluene	A	100.0	89.65	1.478503	1.325489		-10.3	20
4-Chlorotoluene	A	100.0	89.29	1.728237	1.543124		-10.7	20
Dibromochloromethane	A	100.0	108.6	0.96157	1.044436		8.6	20
1,2-Dibromo-3-chloropropane	A	100.0	89.99	0.165218	0.148684		-10.0	20
1,2-Dibromoethane (EDB)	A	100.0	104.2	0.7261361	0.7564393		4.2	20
Dibromomethane	A	100.0	101.5	0.187154	0.1900167		1.5	20
1,2-Dichlorobenzene	A	100.0	98.66	1.306003	1.288454		-1.3	20
1,3-Dichlorobenzene	A	100.0	98.09	1.348763	1.323028		-1.9	20
1,4-Dichlorobenzene	A	100.0	95.70	1.414025	1.35321		-4.3	20
Dichlorodifluoromethane	A	100.0	115.0	0.2646311	0.3042829		15.0	20
1,1-Dichloroethane	A	100.0	98.74	0.4219782	0.4166646	0.1	-1.3	20
1,2-Dichloroethane	A	100.0	99.20	0.3881483	0.3850307		-0.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	1015CCV1.D	Calibration Date:	07/30/12 09:48
Sequence:	2J29005	Injection Date:	10/15/12
Lab Sample ID:	2J29005-CCV1	Injection Time:	09:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	117.7	0.2299039	0.2706135		17.7	20
cis-1,2-Dichloroethene	A	100.0	112.6	0.2923164	0.3291866		12.6	20
trans-1,2-Dichloroethene	A	100.0	113.6	0.2706481	0.3074064		13.6	20
1,2-Dichloropropane	A	100.0	102.1	0.2208834	0.2254953		2.1	20
1,3-Dichloropropane	A	100.0	99.49	0.9533089	0.9484751		-0.5	20
2,2-Dichloropropane	A	100.0	108.0	0.380659	0.4110323		8.0	20
1,1-Dichloropropene	A	100.0	108.0	0.3461839	0.373902		8.0	20
cis-1,3-Dichloropropene	A	100.0	109.9	0.4014071	0.4412483		9.9	20
trans-1,3-Dichloropropene	A	100.0	100.2	0.9928947	0.9950524		0.2	20
Ethylbenzene	A	100.0	105.9	2.993416	3.170288		5.9	20
Hexachlorobutadiene	A	100.0	84.53	0.2768995	0.2340534		-15.5	20
2-Hexanone	A	200.0	205.3	0.2794217	0.2868505		2.7	20
Isopropylbenzene	A	100.0	113.2	2.843894	3.22049		13.2	20
p-Isopropyltoluene	A	100.0	95.96	1.937734	1.859486		-4.0	20
Methylene chloride	A	100.0	96.06	0.2732269	0.2624535		-3.9	20
Naphthalene	Q	100.0	81.10	1.980321	1.838363		-18.9	20
4-Methyl-2-pentanone	A	200.0	223.6	0.1703177	0.1904356		11.8	20
Methyl t-Butyl Ether	A	100.0	93.95	0.6006161	0.5643027		-6.0	20
n-Propylbenzene	A	100.0	92.81	2.246051	2.084511		-7.2	20
Styrene	A	100.0	108.3	2.183883	2.365539		8.3	20
1,1,2,2-Tetrachloroethane	A	100.0	84.94	0.4961926	0.4214508	0.3	-15.1	20
1,1,1,2-Tetrachloroethane	A	100.0	110.4	0.898878	0.9920529		10.4	20
Tetrachloroethene	A	100.0	115.6	0.888101	1.026179		15.5	20
Toluene	A	100.0	103.8	1.582424	1.643424		3.9	20
1,2,3-Trichlorobenzene	A	100.0	87.20	0.7234561	0.6308587		-12.8	20
1,2,4-Trichlorobenzene	A	100.0	93.80	0.7784328	0.7301686		-6.2	20
1,1,2-Trichloroethane	A	100.0	98.92	0.4518993	0.4470288		-1.1	20
1,1,1-Trichloroethane	A	100.0	109.9	0.4808123	0.5282747		9.9	20
Trichloroethene	A	100.0	109.4	0.2875668	0.3144753		9.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	1015CCV1.D	Calibration Date:	07/30/12 09:48
Sequence:	2J29005	Injection Date:	10/15/12
Lab Sample ID:	2J29005-CCV1	Injection Time:	09:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	114.6	0.448402	0.5136416		14.5	20
1,2,3-Trichloropropane	A	100.0	103.2	0.2946555	0.3040863		3.2	20
1,3,5-Trimethylbenzene	A	100.0	94.98	1.776362	1.687221		-5.0	20
1,2,4-Trimethylbenzene	A	100.0	94.82	1.893477	1.795406		-5.2	20
Vinyl chloride	A	100.0	109.7	0.2136571	0.2343752		9.7	20
Xylenes (total)	A	300.0	314.7	2.416686	2.534957		4.9	20
Bromofluorobenzene	A	30.00	31.53	1.013563	1.065207		5.1	20
Dibromofluoromethane	A	30.00	30.14	0.3010273	0.3023982		0.5	20
1,2-Dichloroethane-d4	A	30.00	28.20	7.164132E-02	6.733623E-02		-6.0	20
Toluene-d8	A	30.00	28.06	2.401311	2.246278		-6.5	20

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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
GW0748	10/03/12 11:00	10/05/12 08:30	10/12/12 13:28	N/A	14.00	10/12/12 13:28	9.06	14.00	
GW0749	10/03/12 12:17	10/05/12 08:30	10/12/12 13:57	N/A	14.00	10/12/12 13:57	9.03	14.00	
GW0752	10/03/12 09:10	10/05/12 08:30	10/12/12 14:26	N/A	14.00	10/12/12 14:26	9.18	14.00	
GW0758	10/04/12 13:07	10/05/12 08:30	10/15/12 12:19	N/A	14.00	10/15/12 12:19	10.93	14.00	
GW0775	10/04/12 15:56	10/05/12 08:30	10/15/12 12:47	N/A	14.00	10/15/12 12:47	10.83	14.00	
GW0776	10/04/12 10:31	10/05/12 08:30	10/15/12 13:14	N/A	14.00	10/15/12 13:14	11.07	14.00	
GW0777	10/04/12 10:31	10/05/12 08:30	10/15/12 13:42	N/A	14.00	10/15/12 13:42	11.09	14.00	
GW0838	10/03/12 16:05	10/05/12 08:30	10/12/12 19:41	N/A	14.00	10/12/12 19:41	9.11	14.00	
GW0839	10/03/12 14:07	10/05/12 08:30	10/15/12 21:29	N/A	14.00	10/15/12 21:29	12.27	14.00	
GW0840	10/03/12 11:38	10/05/12 08:30	10/12/12 14:54	N/A	14.00	10/12/12 14:54	9.09	14.00	
GW0851	10/04/12 15:37	10/05/12 08:30	10/15/12 14:10	N/A	14.00	10/15/12 14:10	10.90	14.00	
GW0852	10/04/12 13:22	10/05/12 08:30	10/15/12 14:37	N/A	14.00	10/15/12 14:37	11.01	14.00	
GW0853	10/04/12 11:07	10/05/12 08:30	10/15/12 15:05	N/A	14.00	10/15/12 15:05	11.12	14.00	
GW8230-TB	10/03/12 08:00	10/05/12 08:30	10/12/12 12:31	N/A	14.00	10/12/12 12:31	9.15	14.00	

Data for SW8270D Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J09004	1,000.00/1.00	1060	1.00	1.00		10/09/12
1210056-03 [GW0749]	2J09004	1,000.00/1.00	1060	1.00	1.00		10/09/12
1210056-05 [GW0752]	2J09004	1,000.00/1.00	1020	1.00	1.00		10/09/12
1210056-07 [GW0758]	2J09004	1,000.00/1.00	1000	1.00	1.00		10/09/12
1210056-09 [GW0775]	2J09004	1,000.00/1.00	1060	1.00	1.00		10/09/12
1210056-11 [GW0776]	2J09004	1,000.00/1.00	1040	1.00	1.00		10/09/12
1210056-13 [GW0777]	2J09004	1,000.00/1.00	1040	1.00	1.00		10/09/12
1210056-15 [GW0838]	2J09004	1,000.00/1.00	1020	1.00	1.00		10/09/12
1210056-17 [GW0839]	2J09004	1,000.00/1.00	1000	1.00	1.00		10/09/12
1210056-19 [GW0840]	2J09004	1,000.00/1.00	1020	1.00	1.00		10/09/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-21 [GW0851]	2J10012	1,000.00/1.00	1040	1.00	1.00		10/10/12
1210056-23 [GW0852]	2J10012	1,000.00/1.00	1000	1.00	1.00		10/10/12
1210056-25 [GW0853]	2J10012	1,000.00/1.00	1000	1.00	1.00		10/10/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	1005601.D
Sampled:	10/03/12 11:00	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 21:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	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	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	UX
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	47.2	94.3	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	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	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	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
91-94-1	3,3'-Dichlorobenzidine		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	U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	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

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	1005601.D
Sampled:	10/03/12 11:00	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 21:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 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	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	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	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	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	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	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	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	34.35	72.8	50 - 110	
2-Fluorophenol	94.34	29.92	31.7	20 - 110	
Nitrobenzene-d5	47.17	35.12	74.5	40 - 110	
Phenol-d6	94.34	17.20	18.2	0 - 110	
Terphenyl-d14	47.17	41.07	87.1	50 - 135	
2,4,6-Tribromophenol	94.34	86.90	92.1	40 - 125	

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	1005603.D
Sampled:	10/03/12 12:17	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 22:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	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	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	UX
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	47.2	94.3	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	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	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	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
91-94-1	3,3'-Dichlorobenzidine		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	U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	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

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	1005603.D
Sampled:	10/03/12 12:17	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 22:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 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	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	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	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	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	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	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	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	38.38	81.4	50 - 110	
2-Fluorophenol	94.34	32.56	34.5	20 - 110	
Nitrobenzene-d5	47.17	37.26	79.0	40 - 110	
Phenol-d6	94.34	17.70	18.8	0 - 110	
Terphenyl-d14	47.17	47.35	100	50 - 135	
2,4,6-Tribromophenol	94.34	96.57	102	40 - 125	

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	1005605.D
Sampled:	10/03/12 09:10	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 22:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	49.0	98.0	UX
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	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	49.0	98.0	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	U
105-60-2	Caprolactam		1.23	2.45	4.90	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	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	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	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	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		8.17	24.5	49.0	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	U

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	1005605.D
Sampled:	10/03/12 09:10	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 22:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		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	33.98	69.3	50 - 110	
2-Fluorophenol	98.04	28.58	29.2	20 - 110	
Nitrobenzene-d5	49.02	34.25	69.9	40 - 110	
Phenol-d6	98.04	16.80	17.1	0 - 110	
Terphenyl-d14	49.02	45.21	92.2	50 - 135	
2,4,6-Tribromophenol	98.04	88.76	90.5	40 - 125	

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	1005607.D
Sampled:	10/04/12 13:07	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 22:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	50.0	100	UX
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	50.0	100	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	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	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
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	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		8.33	25.0	50.0	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

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	1005607.D
Sampled:	10/04/12 13:07	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 22:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 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	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		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	37.49	75.0	50 - 110	
2-Fluorophenol	100.0	20.03	20.0	20 - 110	
Nitrobenzene-d5	50.00	37.36	74.7	40 - 110	
Phenol-d6	100.0	14.41	14.4	0 - 110	
Terphenyl-d14	50.00	47.73	95.5	50 - 135	
2,4,6-Tribromophenol	100.0	59.41	59.4	40 - 125	

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	1005609.D
Sampled:	10/04/12 15:56	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 23:26
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	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	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	UX
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	47.2	94.3	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	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	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	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
91-94-1	3,3'-Dichlorobenzidine		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	U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	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

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	1005609.D
Sampled:	10/04/12 15:56	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 23:26
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 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	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	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	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	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	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	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	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	37.78	80.1	50 - 110	
2-Fluorophenol	94.34	13.66	14.5	20 - 110	*
Nitrobenzene-d5	47.17	36.95	78.3	40 - 110	
Phenol-d6	94.34	11.83	12.5	0 - 110	
Terphenyl-d14	47.17	49.37	105	50 - 135	
2,4,6-Tribromophenol	94.34	43.98	46.6	40 - 125	

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	1005611.D
Sampled:	10/04/12 10:31	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 23:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	48.1	96.2	UX
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	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	48.1	96.2	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	U
105-60-2	Caprolactam		1.20	2.40	4.81	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	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	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	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	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		8.01	24.0	48.1	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	U

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	1005611.D
Sampled:	10/04/12 10:31	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 23:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		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	37.89	78.8	50 - 110	
2-Fluorophenol	96.15	22.23	23.1	20 - 110	
Nitrobenzene-d5	48.08	37.46	77.9	40 - 110	
Phenol-d6	96.15	16.05	16.7	0 - 110	
Terphenyl-d14	48.08	48.86	102	50 - 135	
2,4,6-Tribromophenol	96.15	67.42	70.1	40 - 125	

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	1005613.D
Sampled:	10/04/12 10:31	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 00:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	48.1	96.2	UX
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	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	48.1	96.2	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	U
105-60-2	Caprolactam		1.20	2.40	4.81	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	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	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	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	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		8.01	24.0	48.1	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	U

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	1005613.D
Sampled:	10/04/12 10:31	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 00:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		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	40.13	83.5	50 - 110	
2-Fluorophenol	96.15	32.32	33.6	20 - 110	
Nitrobenzene-d5	48.08	39.69	82.6	40 - 110	
Phenol-d6	96.15	17.97	18.7	0 - 110	
Terphenyl-d14	48.08	44.14	91.8	50 - 135	
2,4,6-Tribromophenol	96.15	90.33	93.9	40 - 125	

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	1005615.D
Sampled:	10/03/12 16:05	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 00:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	49.0	98.0	UX
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	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	49.0	98.0	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	U
105-60-2	Caprolactam	**5.91**	1.23	2.45	4.90	
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	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	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	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	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		8.17	24.5	49.0	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	U

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	1005615.D
Sampled:	10/03/12 16:05	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 00:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		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	38.88	79.3	50 - 110	
2-Fluorophenol	98.04	27.23	27.8	20 - 110	
Nitrobenzene-d5	49.02	39.78	81.2	40 - 110	
Phenol-d6	98.04	19.65	20.0	0 - 110	
Terphenyl-d14	49.02	44.45	90.7	50 - 135	
2,4,6-Tribromophenol	98.04	77.70	79.3	40 - 125	

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17	File ID:	1005617.D
Sampled:	10/03/12 14:07	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 01:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	50.0	100	UX
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	50.0	100	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	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	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
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	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		8.33	25.0	50.0	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

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17	File ID:	1005617.D
Sampled:	10/03/12 14:07	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 01:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 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	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		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	39.50	79.0	50 - 110	
2-Fluorophenol	100.0	29.95	29.9	20 - 110	
Nitrobenzene-d5	50.00	37.44	74.9	40 - 110	
Phenol-d6	100.0	19.04	19.0	0 - 110	
Terphenyl-d14	50.00	45.49	91.0	50 - 135	
2,4,6-Tribromophenol	100.0	92.03	92.0	40 - 125	

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	1005619.D
Sampled:	10/03/12 11:38	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 01:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	49.0	98.0	UX
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	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	49.0	98.0	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	U
105-60-2	Caprolactam		1.23	2.45	4.90	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	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	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	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	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		8.17	24.5	49.0	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	U

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	1005619.D
Sampled:	10/03/12 11:38	Prepared:	10/09/12 13:22	Analyzed:	10/11/12 01:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		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	36.35	74.2	50 - 110	
2-Fluorophenol	98.04	31.82	32.5	20 - 110	
Nitrobenzene-d5	49.02	36.44	74.3	40 - 110	
Phenol-d6	98.04	17.66	18.0	0 - 110	
Terphenyl-d14	49.02	46.88	95.6	50 - 135	
2,4,6-Tribromophenol	98.04	93.36	95.2	40 - 125	

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21	File ID:	1005621.D
Sampled:	10/04/12 15:37	Prepared:	10/10/12 13:30	Analyzed:	10/12/12 20:36
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	48.1	96.2	UX
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	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	48.1	96.2	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	U
105-60-2	Caprolactam		1.20	2.40	4.81	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	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	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	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	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		8.01	24.0	48.1	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	U

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21	File ID:	1005621.D
Sampled:	10/04/12 15:37	Prepared:	10/10/12 13:30	Analyzed:	10/12/12 20:36
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		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	40.56	84.4	50 - 110	
2-Fluorophenol	96.15	35.67	37.1	20 - 110	
Nitrobenzene-d5	48.08	40.60	84.4	40 - 110	
Phenol-d6	96.15	20.82	21.7	0 - 110	
Terphenyl-d14	48.08	45.71	95.1	50 - 135	
2,4,6-Tribromophenol	96.15	86.95	90.4	40 - 125	

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	1005623.D
Sampled:	10/04/12 13:22	Prepared:	10/10/12 13:30	Analyzed:	10/12/12 21:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	50.0	100	UX
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	50.0	100	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**	1.25	2.50	5.00	J
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	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
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	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		8.33	25.0	50.0	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

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	1005623.D
Sampled:	10/04/12 13:22	Prepared:	10/10/12 13:30	Analyzed:	10/12/12 21:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		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	37.79	75.6	50 - 110	
2-Fluorophenol	100.0	34.89	34.9	20 - 110	
Nitrobenzene-d5	50.00	39.10	78.2	40 - 110	
Phenol-d6	100.0	20.35	20.4	0 - 110	
Terphenyl-d14	50.00	45.74	91.5	50 - 135	
2,4,6-Tribromophenol	100.0	83.65	83.7	40 - 125	

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	1005625.D
Sampled:	10/04/12 11:07	Prepared:	10/10/12 13:30	Analyzed:	10/12/12 21:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	**2.71**	1.25	2.50	5.00	J
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	50.0	100	UX
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	50.0	100	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	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	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
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	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		8.33	25.0	50.0	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

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	1005625.D
Sampled:	10/04/12 11:07	Prepared:	10/10/12 13:30	Analyzed:	10/12/12 21:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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	**6.73**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**10.4**	1.25	2.50	5.00	
91-20-3	Naphthalene		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	44.62	89.2	50 - 110	
2-Fluorophenol	100.0	35.35	35.3	20 - 110	
Nitrobenzene-d5	50.00	42.26	84.5	40 - 110	
Phenol-d6	100.0	23.13	23.1	0 - 110	
Terphenyl-d14	50.00	49.07	98.1	50 - 135	
2,4,6-Tribromophenol	100.0	87.29	87.3	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
		Calibration:	2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J28514-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/10/12 18:00		
2-Fluorobiphenyl	50.00	99.6	80 - 120	8.06	8.06	0.0000	+/-0.500	
2-Fluorophenol	100.0	102	80 - 120	3.408	3.408	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	105	80 - 120	5.7	5.7	0.0000	+/-0.500	
Phenol-d6	100.0	99.7	80 - 120	4.553	4.553	0.0000	+/-0.500	
Terphenyl-d14	50.00	117	80 - 120	12.617	12.617	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	112	80 - 120	9.854	9.854	0.0000	+/-0.500	
Blank (2J09004-BLK1) ug/L				Lab File ID: J09004B1.D		Analyzed: 10/10/12 18:55		
2-Fluorobiphenyl	50.00	95.5	50 - 110	8.053	8.06	-0.0070	+/-0.500	
2-Fluorophenol	100.0	45.5	20 - 110	3.407	3.408	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	96.3	40 - 110	5.695	5.7	-0.0050	+/-0.500	
Phenol-d6	100.0	25.1	0 - 110	4.541	4.553	-0.0120	+/-0.500	
Terphenyl-d14	50.00	113	50 - 135	12.618	12.617	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	117	40 - 125	9.851	9.854	-0.0030	+/-0.500	
LCS (2J09004-BS1) ug/L				Lab File ID: J09004L1.D		Analyzed: 10/10/12 19:22		
2-Fluorobiphenyl	50.00	91.8	50 - 110	8.053	8.06	-0.0070	+/-0.500	
2-Fluorophenol	100.0	44.5	20 - 110	3.409	3.408	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	94.8	40 - 110	5.699	5.7	-0.0010	+/-0.500	
Phenol-d6	100.0	24.1	0 - 110	4.544	4.553	-0.0090	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	12.616	12.617	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	104	40 - 125	9.849	9.854	-0.0050	+/-0.500	
GW0748 (1210056-01) ug/L				Lab File ID: 1005601.D		Analyzed: 10/10/12 21:38		
2-Fluorobiphenyl	47.17	72.8	50 - 110	8.051	8.06	-0.0090	+/-0.500	
2-Fluorophenol	94.34	31.7	20 - 110	3.408	3.408	0.0000	+/-0.500	
Nitrobenzene-d5	47.17	74.5	40 - 110	5.695	5.7	-0.0050	+/-0.500	
Phenol-d6	94.34	18.2	0 - 110	4.541	4.553	-0.0120	+/-0.500	
Terphenyl-d14	47.17	87.1	50 - 135	12.613	12.617	-0.0040	+/-0.500	
2,4,6-Tribromophenol	94.34	92.1	40 - 125	9.849	9.854	-0.0050	+/-0.500	
GW0749 (1210056-03) ug/L				Lab File ID: 1005603.D		Analyzed: 10/10/12 22:05		
2-Fluorobiphenyl	47.17	81.4	50 - 110	8.054	8.06	-0.0060	+/-0.500	
2-Fluorophenol	94.34	34.5	20 - 110	3.409	3.408	0.0010	+/-0.500	
Nitrobenzene-d5	47.17	79.0	40 - 110	5.699	5.7	-0.0010	+/-0.500	
Phenol-d6	94.34	18.8	0 - 110	4.544	4.553	-0.0090	+/-0.500	
Terphenyl-d14	47.17	100	50 - 135	12.618	12.617	0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	102	40 - 125	9.845	9.854	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
		Calibration:	2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0752 (1210056-05) ug/L				Lab File ID: 1005605.D		Analyzed: 10/10/12 22:32		
2-Fluorobiphenyl	49.02	69.3	50 - 110	8.051	8.06	-0.0090	+/-0.500	
2-Fluorophenol	98.04	29.2	20 - 110	3.409	3.408	0.0010	+/-0.500	
Nitrobenzene-d5	49.02	69.9	40 - 110	5.695	5.7	-0.0050	+/-0.500	
Phenol-d6	98.04	17.1	0 - 110	4.542	4.553	-0.0110	+/-0.500	
Terphenyl-d14	49.02	92.2	50 - 135	12.613	12.617	-0.0040	+/-0.500	
2,4,6-Tribromophenol	98.04	90.5	40 - 125	9.847	9.854	-0.0070	+/-0.500	
GW0758 (1210056-07) ug/L				Lab File ID: 1005607.D		Analyzed: 10/10/12 22:59		
2-Fluorobiphenyl	50.00	75.0	50 - 110	8.053	8.06	-0.0070	+/-0.500	
2-Fluorophenol	100.0	20.0	20 - 110	3.408	3.408	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	74.7	40 - 110	5.696	5.7	-0.0040	+/-0.500	
Phenol-d6	100.0	14.4	0 - 110	4.542	4.553	-0.0110	+/-0.500	
Terphenyl-d14	50.00	95.5	50 - 135	12.614	12.617	-0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	59.4	40 - 125	9.845	9.854	-0.0090	+/-0.500	
GW0775 (1210056-09) ug/L				Lab File ID: 1005609.D		Analyzed: 10/10/12 23:26		
2-Fluorobiphenyl	47.17	80.1	50 - 110	8.05	8.06	-0.0100	+/-0.500	
2-Fluorophenol	94.34	14.5	20 - 110	3.409	3.408	0.0010	+/-0.500	*
Nitrobenzene-d5	47.17	78.3	40 - 110	5.696	5.7	-0.0040	+/-0.500	
Phenol-d6	94.34	12.5	0 - 110	4.542	4.553	-0.0110	+/-0.500	
Terphenyl-d14	47.17	105	50 - 135	12.61	12.617	-0.0070	+/-0.500	
2,4,6-Tribromophenol	94.34	46.6	40 - 125	9.848	9.854	-0.0060	+/-0.500	
GW0776 (1210056-11) ug/L				Lab File ID: 1005611.D		Analyzed: 10/10/12 23:54		
2-Fluorobiphenyl	48.08	78.8	50 - 110	8.053	8.06	-0.0070	+/-0.500	
2-Fluorophenol	96.15	23.1	20 - 110	3.409	3.408	0.0010	+/-0.500	
Nitrobenzene-d5	48.08	77.9	40 - 110	5.699	5.7	-0.0010	+/-0.500	
Phenol-d6	96.15	16.7	0 - 110	4.544	4.553	-0.0090	+/-0.500	
Terphenyl-d14	48.08	102	50 - 135	12.612	12.617	-0.0050	+/-0.500	
2,4,6-Tribromophenol	96.15	70.1	40 - 125	9.845	9.854	-0.0090	+/-0.500	
GW0777 (1210056-13) ug/L				Lab File ID: 1005613.D		Analyzed: 10/11/12 00:21		
2-Fluorobiphenyl	48.08	83.5	50 - 110	8.048	8.06	-0.0120	+/-0.500	
2-Fluorophenol	96.15	33.6	20 - 110	3.406	3.408	-0.0020	+/-0.500	
Nitrobenzene-d5	48.08	82.6	40 - 110	5.692	5.7	-0.0080	+/-0.500	
Phenol-d6	96.15	18.7	0 - 110	4.54	4.553	-0.0130	+/-0.500	
Terphenyl-d14	48.08	91.8	50 - 135	12.615	12.617	-0.0020	+/-0.500	
2,4,6-Tribromophenol	96.15	93.9	40 - 125	9.849	9.854	-0.0050	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
		Calibration:	2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0838 (1210056-15) ug/L				Lab File ID: 1005615.D		Analyzed: 10/11/12 00:48		
2-Fluorobiphenyl	49.02	79.3	50 - 110	8.057	8.06	-0.0030	+/-0.500	
2-Fluorophenol	98.04	27.8	20 - 110	3.419	3.408	0.0110	+/-0.500	
Nitrobenzene-d5	49.02	81.2	40 - 110	5.696	5.7	-0.0040	+/-0.500	
Phenol-d6	98.04	20.0	0 - 110	4.553	4.553	0.0000	+/-0.500	
Terphenyl-d14	49.02	90.7	50 - 135	12.615	12.617	-0.0020	+/-0.500	
2,4,6-Tribromophenol	98.04	79.3	40 - 125	9.852	9.854	-0.0020	+/-0.500	
GW0839 (1210056-17) ug/L				Lab File ID: 1005617.D		Analyzed: 10/11/12 01:15		
2-Fluorobiphenyl	50.00	79.0	50 - 110	8.06	8.06	0.0000	+/-0.500	
2-Fluorophenol	100.0	29.9	20 - 110	3.432	3.408	0.0240	+/-0.500	
Nitrobenzene-d5	50.00	74.9	40 - 110	5.694	5.7	-0.0060	+/-0.500	
Phenol-d6	100.0	19.0	0 - 110	4.564	4.553	0.0110	+/-0.500	
Terphenyl-d14	50.00	91.0	50 - 135	12.615	12.617	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	92.0	40 - 125	9.85	9.854	-0.0040	+/-0.500	
GW0840 (1210056-19) ug/L				Lab File ID: 1005619.D		Analyzed: 10/11/12 01:42		
2-Fluorobiphenyl	49.02	74.2	50 - 110	8.051	8.06	-0.0090	+/-0.500	
2-Fluorophenol	98.04	32.5	20 - 110	3.408	3.408	0.0000	+/-0.500	
Nitrobenzene-d5	49.02	74.3	40 - 110	5.695	5.7	-0.0050	+/-0.500	
Phenol-d6	98.04	18.0	0 - 110	4.541	4.553	-0.0120	+/-0.500	
Terphenyl-d14	49.02	95.6	50 - 135	12.609	12.617	-0.0080	+/-0.500	
2,4,6-Tribromophenol	98.04	95.2	40 - 125	9.843	9.854	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28913	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J28913-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/12/12 15:28		
2-Fluorobiphenyl	50.00	92.1	80 - 120	8.624	8.624	0.0000	+/-0.500	
2-Fluorophenol	100.0	96.8	80 - 120	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	96.6	80 - 120	6.305	6.305	0.0000	+/-0.500	
Phenol-d6	100.0	97.2	80 - 120	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	13.219	13.219	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	99.7	80 - 120	10.435	10.435	0.0000	+/-0.500	
Blank (2J10012-BLK1) ug/L				Lab File ID: J10012B1.D		Analyzed: 10/12/12 17:20		
2-Fluorobiphenyl	50.00	89.1	50 - 110	8.616	8.624	-0.0080	+/-0.500	
2-Fluorophenol	100.0	45.7	20 - 110	3.99	3.987	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	92.6	40 - 110	6.298	6.305	-0.0070	+/-0.500	
Phenol-d6	100.0	26.6	0 - 110	5.128	5.136	-0.0080	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	13.212	13.219	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	97.0	40 - 125	10.438	10.435	0.0030	+/-0.500	
LCS (2J10012-BS1) ug/L				Lab File ID: J10012L1.D		Analyzed: 10/12/12 17:49		
2-Fluorobiphenyl	50.00	66.6	50 - 110	8.613	8.624	-0.0110	+/-0.500	
2-Fluorophenol	100.0	33.8	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	70.0	40 - 110	6.305	6.305	0.0000	+/-0.500	
Phenol-d6	100.0	20.0	0 - 110	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	84.6	50 - 135	13.219	13.219	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	71.5	40 - 125	10.435	10.435	0.0000	+/-0.500	
GW0851 (1210056-21) ug/L				Lab File ID: 1005621.D		Analyzed: 10/12/12 20:36		
2-Fluorobiphenyl	48.08	84.4	50 - 110	8.615	8.624	-0.0090	+/-0.500	
2-Fluorophenol	96.15	37.1	20 - 110	3.989	3.987	0.0020	+/-0.500	
Nitrobenzene-d5	48.08	84.4	40 - 110	6.297	6.305	-0.0080	+/-0.500	
Phenol-d6	96.15	21.7	0 - 110	5.138	5.136	0.0020	+/-0.500	
Terphenyl-d14	48.08	95.1	50 - 135	13.211	13.219	-0.0080	+/-0.500	
2,4,6-Tribromophenol	96.15	90.4	40 - 125	10.437	10.435	0.0020	+/-0.500	
GW0852 (1210056-23) ug/L				Lab File ID: 1005623.D		Analyzed: 10/12/12 21:05		
2-Fluorobiphenyl	50.00	75.6	50 - 110	8.613	8.624	-0.0110	+/-0.500	
2-Fluorophenol	100.0	34.9	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	78.2	40 - 110	6.305	6.305	0.0000	+/-0.500	
Phenol-d6	100.0	20.4	0 - 110	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	91.5	50 - 135	13.219	13.219	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	83.7	40 - 125	10.435	10.435	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28913	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0853 (1210056-25) ug/L				Lab File ID: 1005625.D		Analyzed: 10/12/12 21:33		
2-Fluorobiphenyl	50.00	89.2	50 - 110	8.623	8.624	-0.0010	+/-0.500	
2-Fluorophenol	100.0	35.3	20 - 110	4.007	3.987	0.0200	+/-0.500	
Nitrobenzene-d5	50.00	84.5	40 - 110	6.305	6.305	0.0000	+/-0.500	
Phenol-d6	100.0	23.1	0 - 110	5.146	5.136	0.0100	+/-0.500	
Terphenyl-d14	50.00	98.1	50 - 135	13.219	13.219	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	87.3	40 - 125	10.434	10.435	-0.0010	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J09004	Laboratory ID:	2J09004-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	35.00	32.06	91.6	45 - 110
Acenaphthylene	35.00	32.08	91.6	50 - 105
Acetophenone	35.72	35.99	101	45 - 130
Anthracene	35.00	35.69	102	55 - 110
Atrazine	35.72	32.16	90.0	40 - 150
Benzaldehyde	35.72	35.50	99.4	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	35.00	36.14	103	55 - 110
Benzo(a)pyrene	35.00	34.38	98.2	55 - 110
Benzo(b)fluoranthene	35.00	34.95	99.8	45 - 120
Benzo(g,h,i)perylene	35.00	34.31	98.0	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	35.00	33.97	97.0	45 - 125
1,1-Biphenyl	35.72	31.30	87.6	45 - 135
4-Bromophenyl-phenylether	35.00	37.27	106	50 - 115
Butylbenzylphthalate	35.00	40.29	115	45 - 115
Caprolactam	35.72	6.315	17.7	5 - 110
Carbazole	35.72	37.73	106	50 - 115
4-Chloro-3-methylphenol	70.70	65.87	93.2	45 - 110
4-Chloroaniline	35.72	32.58	91.2	15 - 110
Bis(2-chloroethoxy)methane	35.00	33.74	96.4	45 - 105
Bis(2-chloroethyl)ether	35.00	33.47	95.6	35 - 110
2,2'-Oxybis-1-chloropropane	35.00	31.35	89.6	25 - 130
2-Chloronaphthalene	35.00	30.16	86.2	50 - 105
2-Chlorophenol	70.70	60.00	84.9	35 - 105
4-Chlorophenyl phenyl ether	35.00	34.24	97.8	50 - 110
Chrysene	35.00	36.94	106	55 - 110
Dibenz(a,h)anthracene	35.00	34.22	97.8	40 - 125
Dibenzofuran	35.00	32.55	93.0	55 - 105
Di-n-butylphthalate	35.00	39.28	112	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J09004	Laboratory ID:	2J09004-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	35.72	35.48	99.3	20 - 110
2,4-Dichlorophenol	70.70	65.22	92.3	50 - 105
Diethylphthalate	35.00	37.56	107	40 - 120
2,4-Dimethylphenol	70.70	64.78	91.6	30 - 110
Dimethyl phthalate	35.00	37.47	107	25 - 125
4,6-Dinitro-2-methylphenol	70.70	79.76	113	40 - 130
2,4-Dinitrophenol	70.70	69.41	98.2	15 - 140
2,4-Dinitrotoluene	35.00	34.27	97.9	50 - 120
2,6-Dinitrotoluene	35.00	33.73	96.4	50 - 115
Di-n-octylphthalate	35.00	37.32	107	35 - 135
1,2-Diphenylhydrazine	35.72	34.35	96.2	55 - 115
Bis(2-ethylhexyl)phthalate	35.00	39.65	113	40 - 125
Fluoranthene	35.00	36.41	104	55 - 115
Fluorene	35.00	32.67	93.3	50 - 110
Hexachlorobenzene	35.00	37.44	107	50 - 110
Hexachlorobutadiene	35.00	31.54	90.1	25 - 105
Hexachlorocyclopentadiene	35.00	31.48	89.9	0 - 120
Hexachloroethane	35.00	28.60	81.7	30 - 100
Indeno(1,2,3-cd)pyrene	35.00	34.27	97.9	45 - 125
Isophorone	35.00	32.73	93.5	50 - 110
1-Methylnaphthalene	35.72	32.02	89.7	35 - 115
2-Methylnaphthalene	35.00	29.83	85.2	45 - 105
2-Methylphenol	70.70	49.61	70.2	40 - 110
3-Methylphenol/4-Methylphenol	70.70	42.82	60.6	30 - 110
Naphthalene	35.00	29.50	84.3	40 - 100
4-Nitroaniline	35.72	36.99	104	35 - 120
3-Nitroaniline	35.72	31.79	89.0	20 - 125
2-Nitroaniline	35.72	37.62	105	50 - 115
Nitrobenzene	35.00	32.88	93.9	45 - 110
4-Nitrophenol	70.70	19.39	27.4	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J09004	Laboratory ID:	2J09004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	70.14	99.2	40 - 115
N-Nitrosodiphenylamine	35.00	29.50	84.3	50 - 110
N-Nitroso-di-n-propylamine	35.00	37.41	107	35 - 130
Pentachlorophenol	70.70	70.60	99.9	40 - 115
Phenanthrene	35.00	34.82	99.5	50 - 115
Phenol	70.70	19.28	27.3	0 - 115
Pyrene	35.00	36.45	104	50 - 130
2,4,6-Trichlorophenol	70.70	69.45	98.2	50 - 115
2,4,5-Trichlorophenol	70.70	68.71	97.2	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J10012	Laboratory ID:	2J10012-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	35.00	22.09	63.1	45 - 110
Acenaphthylene	35.00	24.23	69.2	50 - 105
Acetophenone	35.72	26.08	73.0	45 - 130
Anthracene	35.00	29.66	84.8	55 - 110
Atrazine	35.72	27.42	76.8	40 - 150
Benzaldehyde	35.72	27.83	77.9	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	35.00	32.24	92.1	55 - 110
Benzo(a)pyrene	35.00	31.62	90.3	55 - 110
Benzo(b)fluoranthene	35.00	33.87	96.8	45 - 120
Benzo(g,h,i)perylene	35.00	31.73	90.7	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	35.00	27.57	78.8	45 - 125
1,1-Biphenyl	35.72	24.22	67.8	45 - 135
4-Bromophenyl-phenylether	35.00	27.23	77.8	50 - 115
Butylbenzylphthalate	35.00	34.46	98.5	45 - 115
Caprolactam	35.72	5.428	15.2	5 - 110
Carbazole	35.72	33.36	93.4	50 - 115
4-Chloro-3-methylphenol	70.70	45.58	64.5	45 - 110
4-Chloroaniline	35.72	25.30	70.8	15 - 110
Bis(2-chloroethoxy)methane	35.00	26.42	75.5	45 - 105
Bis(2-chloroethyl)ether	35.00	26.87	76.8	35 - 110
2,2'-Oxybis-1-chloropropane	35.00	25.38	72.5	25 - 130
2-Chloronaphthalene	35.00	21.73	62.1	50 - 105
2-Chlorophenol	70.70	42.45	60.0	35 - 105
4-Chlorophenyl phenyl ether	35.00	23.99	68.5	50 - 110
Chrysene	35.00	31.63	90.4	55 - 110
Dibenz(a,h)anthracene	35.00	32.18	91.9	40 - 125
Dibenzofuran	35.00	24.72	70.6	55 - 105
Di-n-butylphthalate	35.00	33.16	94.7	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J10012	Laboratory ID:	2J10012-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	35.72	32.60	91.3	20 - 110
2,4-Dichlorophenol	70.70	45.70	64.6	50 - 105
Diethylphthalate	35.00	26.88	76.8	40 - 120
2,4-Dimethylphenol	70.70	46.84	66.2	30 - 110
Dimethyl phthalate	35.00	27.25	77.9	25 - 125
4,6-Dinitro-2-methylphenol	70.70	57.31	81.1	40 - 130
2,4-Dinitrophenol	70.70	51.83	73.3	15 - 140
2,4-Dinitrotoluene	35.00	28.68	81.9	50 - 120
2,6-Dinitrotoluene	35.00	26.57	75.9	50 - 115
Di-n-octylphthalate	35.00	34.27	97.9	35 - 135
1,2-Diphenylhydrazine	35.72	26.85	75.2	55 - 115
Bis(2-ethylhexyl)phthalate	35.00	34.70	99.1	40 - 125
Fluoranthene	35.00	32.39	92.5	55 - 115
Fluorene	35.00	24.31	69.4	50 - 110
Hexachlorobenzene	35.00	28.01	80.0	50 - 110
Hexachlorobutadiene	35.00	18.60	53.1	25 - 105
Hexachlorocyclopentadiene	35.00	19.55	55.8	0 - 120
Hexachloroethane	35.00	16.68	47.7	30 - 100
Indeno(1,2,3-cd)pyrene	35.00	31.38	89.7	45 - 125
Isophorone	35.00	25.13	71.8	50 - 110
1-Methylnaphthalene	35.72	20.76	58.1	35 - 115
2-Methylnaphthalene	35.00	20.69	59.1	45 - 105
2-Methylphenol	70.70	38.67	54.7	40 - 110
3-Methylphenol/4-Methylphenol	70.70	34.12	48.3	30 - 110
Naphthalene	35.00	22.09	63.1	40 - 100
4-Nitroaniline	35.72	32.39	90.7	35 - 120
3-Nitroaniline	35.72	27.90	78.1	20 - 125
2-Nitroaniline	35.72	28.58	80.0	50 - 115
Nitrobenzene	35.00	25.30	72.3	45 - 110
4-Nitrophenol	70.70	14.65	20.7	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J10012	Laboratory ID:	2J10012-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	50.51	71.4	40 - 115
N-Nitrosodiphenylamine	35.00	23.98	68.5	50 - 110
N-Nitroso-di-n-propylamine	35.00	26.29	75.1	35 - 130
Pentachlorophenol	70.70	55.19	78.1	40 - 115
Phenanthrene	35.00	28.91	82.6	50 - 115
Phenol	70.70	15.00	21.2	0 - 115
Pyrene	35.00	32.22	92.0	50 - 130
2,4,6-Trichlorophenol	70.70	41.73	59.0	50 - 115
2,4,5-Trichlorophenol	70.70	46.16	65.3	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J09004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/09/12 13:22	1,060.00	1.00
GW0749	1210056-03	10/09/12 13:22	1,060.00	1.00
GW0752	1210056-05	10/09/12 13:22	1,020.00	1.00
GW0758	1210056-07	10/09/12 13:22	1,000.00	1.00
GW0775	1210056-09	10/09/12 13:22	1,060.00	1.00
GW0776	1210056-11	10/09/12 13:22	1,040.00	1.00
GW0777	1210056-13	10/09/12 13:22	1,040.00	1.00
GW0838	1210056-15	10/09/12 13:22	1,020.00	1.00
GW0839	1210056-17	10/09/12 13:22	1,000.00	1.00
GW0840	1210056-19	10/09/12 13:22	1,020.00	1.00
Blank	2J09004-BLK1	10/09/12 13:22	1,000.00	1.00
LCS	2J09004-BS1	10/09/12 13:22	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J10012 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0851	1210056-21	10/10/12 13:30	1,040.00	1.00
GW0852	1210056-23	10/10/12 13:30	1,000.00	1.00
GW0853	1210056-25	10/10/12 13:30	1,000.00	1.00
Blank	2J10012-BLK1	10/10/12 13:30	1,000.00	1.00
LCS	2J10012-BS1	10/10/12 13:30	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J09004-BLK1 File ID: J09004B1.D

Sampled: Prepared: Analyzed: 10/10/12 18:55

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 Instrument: MS-BNA1

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	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	50.0	100	UX
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	50.0	100	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	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	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
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	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		8.33	25.0	50.0	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_064

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

Matrix: Laboratory ID: 2J09004-BLK1 File ID: J09004B1.D

Sampled: Prepared: Analyzed: 10/10/12 18:55

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J09004 Sequence: 2J28514 Calibration: 2272005 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	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		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	47.75	95.5	50 - 110	
2-Fluorophenol	100.0	45.46	45.5	20 - 110	
Nitrobenzene-d5	50.00	48.15	96.3	40 - 110	
Phenol-d6	100.0	25.06	25.1	0 - 110	
Terphenyl-d14	50.00	56.56	113	50 - 135	
2,4,6-Tribromophenol	100.0	117.4	117	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_064

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

Matrix: | Laboratory ID: 2J09004-BS1 | File ID: J09004L1.D

Sampled: | Prepared: | Analyzed: 10/10/12 19:22

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J09004 | Sequence: 2J28514 | Calibration: 2272005 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**32.06**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**32.08**	1.25	2.50	5.00	
98-86-2	Acetophenone	**35.99**	1.25	2.50	5.00	
120-12-7	Anthracene	**35.69**	1.25	2.50	5.00	
1912-24-9	Atrazine	**32.16**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**35.50**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**36.14**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**34.38**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**34.95**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**34.31**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**33.97**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**31.30**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**37.27**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**40.29**	1.25	2.50	5.00	
105-60-2	Caprolactam	**6.315**	1.25	2.50	5.00	
86-74-8	Carbazole	**37.73**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**65.87**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**32.58**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**33.74**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**33.47**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**31.35**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**30.16**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**60.00**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**34.24**	1.25	2.50	5.00	
218-01-9	Chrysene	**36.94**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**34.22**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**32.55**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**39.28**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**35.48**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**65.22**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**37.56**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**64.78**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**37.47**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**79.76**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**69.41**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**34.27**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**33.73**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**37.32**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_064

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

Matrix: | Laboratory ID: 2J09004-BS1 | File ID: J09004L1.D

Sampled: | Prepared: | Analyzed: 10/10/12 19:22

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J09004 | Sequence: 2J28514 | Calibration: 2272005 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**34.35**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**39.65**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**36.41**	1.25	2.50	5.00	
86-73-7	Fluorene	**32.67**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**37.44**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**31.54**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**31.48**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**28.60**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**34.27**	1.25	2.50	5.00	
78-59-1	Isophorone	**32.73**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**32.02**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**29.83**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**49.61**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**42.82**	1.25	2.50	5.00	
91-20-3	Naphthalene	**29.50**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**36.99**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**31.79**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**37.62**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**32.88**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**19.39**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**70.14**	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	**29.50**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**37.41**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**70.60**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**34.82**	1.25	2.50	5.00	
108-95-2	Phenol	**19.28**	1.25	2.50	5.00	
129-00-0	Pyrene	**36.45**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**69.45**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**68.71**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.89	91.8	50 - 110	
2-Fluorophenol	100.0	44.55	44.5	20 - 110	
Nitrobenzene-d5	50.00	47.38	94.8	40 - 110	
Phenol-d6	100.0	24.07	24.1	0 - 110	
Terphenyl-d14	50.00	50.58	101	50 - 135	
2,4,6-Tribromophenol	100.0	104.1	104	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Matrix: Laboratory ID: 2J10012-BLK1 File ID: J10012B1.D

Sampled: Prepared: Analyzed: 10/12/12 17:20

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	50.0	100	UX
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	50.0	100	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	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	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
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	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		8.33	25.0	50.0	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_064

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

Matrix: Laboratory ID: 2J10012-BLK1 File ID: J10012B1.D

Sampled: Prepared: Analyzed: 10/12/12 17:20

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J10012 Sequence: 2J28913 Calibration: 2261001 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	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	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		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	44.55	89.1	50 - 110	
2-Fluorophenol	100.0	45.72	45.7	20 - 110	
Nitrobenzene-d5	50.00	46.28	92.6	40 - 110	
Phenol-d6	100.0	26.64	26.6	0 - 110	
Terphenyl-d14	50.00	50.91	102	50 - 135	
2,4,6-Tribromophenol	100.0	96.97	97.0	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_064

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

Matrix: | Laboratory ID: 2J10012-BS1 | File ID: J10012L1.D

Sampled: | Prepared: | Analyzed: 10/12/12 17:49

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J10012 | Sequence: 2J28913 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**22.09**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**24.23**	1.25	2.50	5.00	
98-86-2	Acetophenone	**26.08**	1.25	2.50	5.00	
120-12-7	Anthracene	**29.66**	1.25	2.50	5.00	
1912-24-9	Atrazine	**27.42**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**27.83**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**32.24**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**31.62**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**33.87**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**31.73**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**27.57**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**24.22**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**27.23**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**34.46**	1.25	2.50	5.00	
105-60-2	Caprolactam	**5.428**	1.25	2.50	5.00	
86-74-8	Carbazole	**33.36**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**45.58**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**25.30**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**26.42**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**26.87**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**25.38**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**21.73**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**42.45**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**23.99**	1.25	2.50	5.00	
218-01-9	Chrysene	**31.63**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**32.18**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**24.72**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**33.16**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**32.60**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**45.70**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**26.88**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**46.84**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**27.25**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**57.31**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**51.83**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**28.68**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**26.57**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**34.27**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_064

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

Matrix: | Laboratory ID: 2J10012-BS1 | File ID: J10012L1.D

Sampled: | Prepared: | Analyzed: 10/12/12 17:49

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J10012 | Sequence: 2J28913 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**26.85**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**34.70**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**32.39**	1.25	2.50	5.00	
86-73-7	Fluorene	**24.31**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**28.01**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**18.60**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**19.55**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**16.68**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**31.38**	1.25	2.50	5.00	
78-59-1	Isophorone	**25.13**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**20.76**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**20.69**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**38.67**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**34.12**	1.25	2.50	5.00	
91-20-3	Naphthalene	**22.09**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**32.39**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**27.90**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**28.58**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**25.30**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**14.65**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**50.51**	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	**23.98**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**26.29**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**55.19**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**28.91**	1.25	2.50	5.00	
108-95-2	Phenol	**15.00**	1.25	2.50	5.00	
129-00-0	Pyrene	**32.22**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**41.73**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**46.16**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	33.31	66.6	50 - 110	
2-Fluorophenol	100.0	33.83	33.8	20 - 110	
Nitrobenzene-d5	50.00	35.01	70.0	40 - 110	
Phenol-d6	100.0	19.96	20.0	0 - 110	
Terphenyl-d14	50.00	42.32	84.6	50 - 135	
2,4,6-Tribromophenol	100.0	71.54	71.5	40 - 125	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/11/12
Instrument ID:	MS-BNA3	Injection Time:	10:14
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.9	PASS
68	Less than 2% of 69	0.427	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.427	PASS
127	40 - 60% of 198	48.7	PASS
197	Less than 1% of 198	0.112	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.32	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 200% of 198	2.18	PASS
441	0.001 - 100% of 443	80	PASS
442	40 - 200% of 198	79.1	PASS
443	17 - 23% of 442	18.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/12/12
Instrument ID:	MS-BNA3	Injection Time:	15:25
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	38.9	PASS
68	Less than 2% of 69	1.04	PASS
69	Less than 200% of 198	42.9	PASS
70	Less than 2% of 69	0.427	PASS
127	40 - 60% of 198	48.8	PASS
197	Less than 1% of 198	0.0543	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	22.3	PASS
365	1 - 200% of 198	2.57	PASS
441	0.001 - 100% of 443	68.9	PASS
442	40 - 200% of 198	78.2	PASS
443	17 - 23% of 442	20.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/26/12
Instrument ID:	MS-BNA1	Injection Time:	17:40
Sequence:	2I27213	Lab Sample ID:	2I27213-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.4	PASS
68	Less than 2% of 69	0.277	PASS
69	Less than 200% of 198	53	PASS
70	Less than 2% of 69	0.589	PASS
127	40 - 60% of 198	48.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.91	PASS
275	10 - 30% of 198	18.4	PASS
365	1 - 200% of 198	2.13	PASS
441	0.001 - 100% of 443	72.2	PASS
442	40 - 200% of 198	59.2	PASS
443	17 - 23% of 442	19.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/27/12
Instrument ID:	MS-BNA1	Injection Time:	15:42
Sequence:	2I27213	Lab Sample ID:	2I27213-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.5	PASS
68	Less than 2% of 69	0.442	PASS
69	Less than 200% of 198	51.2	PASS
70	Less than 2% of 69	0.674	PASS
127	40 - 60% of 198	48.3	PASS
197	Less than 1% of 198	0.0185	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.76	PASS
275	10 - 30% of 198	18.5	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	74.7	PASS
442	40 - 200% of 198	59.6	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/10/12
Instrument ID:	MS-BNA1	Injection Time:	17:37
Sequence:	2J28514	Lab Sample ID:	2J28514-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	36.3	PASS
68	Less than 2% of 69	0.304	PASS
69	Less than 200% of 198	50.3	PASS
70	Less than 2% of 69	0.435	PASS
127	40 - 60% of 198	46.8	PASS
197	Less than 1% of 198	0.288	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.69	PASS
275	10 - 30% of 198	17.5	PASS
365	1 - 200% of 198	1.86	PASS
441	0.001 - 100% of 443	80.3	PASS
442	40 - 200% of 198	62.4	PASS
443	17 - 23% of 442	18.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/12/12
Instrument ID:	MS-BNA3	Injection Time:	15:04
Sequence:	2J28913	Lab Sample ID:	2J28913-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37	PASS
68	Less than 2% of 69	1.62	PASS
69	Less than 200% of 198	42.7	PASS
70	Less than 2% of 69	0.3	PASS
127	40 - 60% of 198	47.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.09	PASS
275	10 - 30% of 198	24	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	70.2	PASS
442	40 - 200% of 198	83.3	PASS
443	17 - 23% of 442	20.4	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I25803	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2I25803-TUN1	SEQ-TUN1.D	09/11/12 10:14
Cal Standard	2I25803-CAL1	SEQ-CAL1.D	09/11/12 10:38
Cal Standard	2I25803-CAL2	SEQ-CAL2.D	09/11/12 11:06
Cal Standard	2I25803-CAL3	SEQ-CAL3.D	09/11/12 11:34
Cal Standard	2I25803-CAL4	SEQ-CAL4.D	09/11/12 12:03
Cal Standard	2I25803-CAL5	SEQ-CAL5.D	09/11/12 12:31
Cal Standard	2I25803-CAL6	SEQ-CAL6.D	09/11/12 12:59
Cal Standard	2I25803-CAL7	SEQ-CAL7.D	09/11/12 13:27
Cal Standard	2I25803-CAL8	SEQ-CAL8.D	09/11/12 13:55
Cal Standard	2I25803-CAL9	SEQ-CAL9.D	09/11/12 14:23
Cal Standard	2I25803-CALA	SEQ-CALA.D	09/11/12 14:51
Cal Standard	2I25803-CALB	SEQ-CALB.D	09/11/12 15:20
Cal Standard	2I25803-CALC	SEQ-CALC.D	09/11/12 15:48
Cal Standard	2I25803-CALD	SEQ-CALD.D	09/11/12 16:16
Cal Standard	2I25803-CALE	SEQ-CALE.D	09/11/12 16:44
Cal Standard	2I25803-CALF	SEQ-CALF.D	09/11/12 17:11
Cal Standard	2I25803-CALG	SEQ-CALG.D	09/11/12 17:40
Initial Cal Check	2I25803-ICV1	SEQ-ICV1.D	09/11/12 18:08
Initial Cal Check	2I25803-ICV2	SEQ-ICV2.D	09/11/12 18:36
MS Tune	2I25803-TUN2	SEQ-TUN2.D	09/12/12 15:25
Initial Cal Check	2I25803-ICV3	SEQ-ICV3.D	09/12/12 15:49

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I27213	Instrument:	MS-BNA1
Calibration:	2272005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2I27213-TUN1	SEQ-TUN1.D	09/26/12 17:40
Cal Standard	2I27213-CAL1	SEQ-CAL1.D	09/26/12 18:03
Cal Standard	2I27213-CAL2	SEQ-CAL2.D	09/26/12 18:30
Cal Standard	2I27213-CAL3	SEQ-CAL3.D	09/26/12 18:58
Cal Standard	2I27213-CAL4	SEQ-CAL4.D	09/26/12 19:25
Cal Standard	2I27213-CAL5	SEQ-CAL5.D	09/26/12 19:52
Cal Standard	2I27213-CAL6	SEQ-CAL6.D	09/26/12 20:20
Cal Standard	2I27213-CAL7	SEQ-CAL7.D	09/26/12 20:47
Cal Standard	2I27213-CAL8	SEQ-CAL8.D	09/26/12 21:14
Cal Standard	2I27213-CAL9	SEQ-CAL9.D	09/26/12 21:42
Cal Standard	2I27213-CALA	SEQ-CALA.D	09/26/12 22:09
Cal Standard	2I27213-CALB	SEQ-CALB.D	09/26/12 22:36
Cal Standard	2I27213-CALC	SEQ-CALC.D	09/26/12 23:04
Cal Standard	2I27213-CALD	SEQ-CALD.D	09/26/12 23:31
Cal Standard	2I27213-CALE	SEQ-CALE.D	09/26/12 23:59
Cal Standard	2I27213-CALF	SEQ-CALF.D	09/27/12 00:26
Cal Standard	2I27213-CALG	SEQ-CALG.D	09/27/12 00:53
Initial Cal Check	2I27213-ICV1	SEQ-ICV1.D	09/27/12 01:21
Initial Cal Check	2I27213-ICV2	SEQ-ICV2.D	09/27/12 01:48
Initial Cal Check	2I27213-ICV3	SEQ-ICV3.D	09/27/12 02:16
MS Tune	2I27213-TUN2	SEQ-TUN2.D	09/27/12 15:42
Initial Cal Check	2I27213-ICV4	SEQ-ICV4.D	09/27/12 16:07

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
Calibration:	2272005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J28514-TUN1	SEQ-TUN1.D	10/10/12 17:37
Calibration Check	2J28514-CCV1	SEQ-CCV1.D	10/10/12 18:00
Calibration Check	2J28514-CCV2	SEQ-CCV2.D	10/10/12 18:27
Blank	2J09004-BLK1	J09004B1.D	10/10/12 18:55
LCS	2J09004-BS1	J09004L1.D	10/10/12 19:22
GW0748	1210056-01	1005601.D	10/10/12 21:38
GW0749	1210056-03	1005603.D	10/10/12 22:05
GW0752	1210056-05	1005605.D	10/10/12 22:32
GW0758	1210056-07	1005607.D	10/10/12 22:59
GW0775	1210056-09	1005609.D	10/10/12 23:26
GW0776	1210056-11	1005611.D	10/10/12 23:54
GW0777	1210056-13	1005613.D	10/11/12 00:21
GW0838	1210056-15	1005615.D	10/11/12 00:48
GW0839	1210056-17	1005617.D	10/11/12 01:15
GW0840	1210056-19	1005619.D	10/11/12 01:42

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28913	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J28913-TUN1	SEQ-TUN1.D	10/12/12 15:04
Calibration Check	2J28913-CCV1	SEQ-CCV1.D	10/12/12 15:28
Calibration Check	2J28913-CCV2	SEQ-CCV2.D	10/12/12 15:56
Blank	2J10012-BLK1	J10012B1.D	10/12/12 17:20
LCS	2J10012-BS1	J10012L1.D	10/12/12 17:49
GW0851	1210056-21	1005621.D	10/12/12 20:36
GW0852	1210056-23	1005623.D	10/12/12 21:05
GW0853	1210056-25	1005625.D	10/12/12 21:33

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
		Calibration:	2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J28514-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/10/12 18:00			
1,4-Dichlorobenzene-d4	522096	4.906	618251	4.91	84	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	2021463	6.62	2241342	6.627	90	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1078596	8.867	1140029	8.878	95	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1954357	10.654	2018387	10.66	97	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1651153	13.911	1657109	13.914	100	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1586533	15.984	1567256	15.995	101	50 - 200	-0.0110	+/-0.50	
Calibration Check (2J28514-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/10/12 18:27			
1,4-Dichlorobenzene-d4	512540	4.905	522096	4.906	98	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2024642	6.615	2021463	6.62	100	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1071760	8.864	1078596	8.867	99	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1882147	10.651	1954357	10.654	96	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1584842	13.905	1651153	13.911	96	50 - 200	-0.0060	+/-0.50	
Perylene-d12	1609699	15.983	1586533	15.984	101	50 - 200	-0.0010	+/-0.50	
Blank (2J09004-BLK1)			Lab File ID: J09004B1.D			Analyzed: 10/10/12 18:55			
1,4-Dichlorobenzene-d4	404788	4.903	522096	4.906	78	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1613834	6.614	2021463	6.62	80	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	874505	8.864	1078596	8.867	81	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1462601	10.652	1954357	10.654	75	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1287696	13.898	1651153	13.911	78	50 - 200	-0.0130	+/-0.50	
Perylene-d12	1241452	15.982	1586533	15.984	78	50 - 200	-0.0020	+/-0.50	
LCS (2J09004-BS1)			Lab File ID: J09004L1.D			Analyzed: 10/10/12 19:22			
1,4-Dichlorobenzene-d4	513550	4.906	522096	4.906	98	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2018049	6.619	2021463	6.62	100	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1086159	8.871	1078596	8.867	101	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1859744	10.649	1954357	10.654	95	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1557874	13.905	1651153	13.911	94	50 - 200	-0.0060	+/-0.50	
Perylene-d12	1541144	15.985	1586533	15.984	97	50 - 200	0.0010	+/-0.50	
GW0748 (1210056-01)			Lab File ID: 1005601.D			Analyzed: 10/10/12 21:38			
1,4-Dichlorobenzene-d4	473158	4.903	522096	4.906	91	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1854593	6.614	2021463	6.62	92	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	993608	8.862	1078596	8.867	92	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1682470	10.651	1954357	10.654	86	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1477450	13.904	1651153	13.911	89	50 - 200	-0.0070	+/-0.50	
Perylene-d12	1409726	15.977	1586533	15.984	89	50 - 200	-0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
		Calibration:	2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0749 (1210056-03)			Lab File ID: 1005603.D			Analyzed: 10/10/12 22:05			
1,4-Dichlorobenzene-d4	556496	4.907	522096	4.906	107	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2213422	6.618	2021463	6.62	109	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1161484	8.865	1078596	8.867	108	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1978249	10.653	1954357	10.654	101	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1750579	13.896	1651153	13.911	106	50 - 200	-0.0150	+/-0.50	
Perylene-d12	1670339	15.981	1586533	15.984	105	50 - 200	-0.0030	+/-0.50	
GW0752 (1210056-05)			Lab File ID: 1005605.D			Analyzed: 10/10/12 22:32			
1,4-Dichlorobenzene-d4	496635	4.903	522096	4.906	95	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1945052	6.613	2021463	6.62	96	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1037722	8.863	1078596	8.867	96	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1755846	10.647	1954357	10.654	90	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	1532259	13.903	1651153	13.911	93	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1496194	15.98	1586533	15.984	94	50 - 200	-0.0040	+/-0.50	
GW0758 (1210056-07)			Lab File ID: 1005607.D			Analyzed: 10/10/12 22:59			
1,4-Dichlorobenzene-d4	546375	4.903	522096	4.906	105	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2222800	6.615	2021463	6.62	110	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1181067	8.867	1078596	8.867	110	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2056815	10.646	1954357	10.654	105	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1803417	13.901	1651153	13.911	109	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1716058	15.98	1586533	15.984	108	50 - 200	-0.0040	+/-0.50	
GW0775 (1210056-09)			Lab File ID: 1005609.D			Analyzed: 10/10/12 23:26			
1,4-Dichlorobenzene-d4	445431	4.903	522096	4.906	85	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1863742	6.614	2021463	6.62	92	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	990919	8.861	1078596	8.867	92	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1617675	10.651	1954357	10.654	83	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1442748	13.897	1651153	13.911	87	50 - 200	-0.0140	+/-0.50	
Perylene-d12	1377085	15.974	1586533	15.984	87	50 - 200	-0.0100	+/-0.50	
GW0776 (1210056-11)			Lab File ID: 1005611.D			Analyzed: 10/10/12 23:54			
1,4-Dichlorobenzene-d4	443820	4.906	522096	4.906	85	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1769149	6.617	2021463	6.62	88	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	937939	8.865	1078596	8.867	87	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1613147	10.646	1954357	10.654	83	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1372448	13.897	1651153	13.911	83	50 - 200	-0.0140	+/-0.50	
Perylene-d12	1302760	15.979	1586533	15.984	82	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28514	Instrument:	MS-BNA1
		Calibration:	2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0777 (1210056-13)			Lab File ID: 1005613.D			Analyzed: 10/11/12 00:21			
1,4-Dichlorobenzene-d4	469652	4.9	522096	4.906	90	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	1861716	6.611	2021463	6.62	92	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	967054	8.86	1078596	8.867	90	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	1682575	10.651	1954357	10.654	86	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1452543	13.902	1651153	13.911	88	50 - 200	-0.0090	+/-0.50	
Perylene-d12	1383249	15.978	1586533	15.984	87	50 - 200	-0.0060	+/-0.50	
GW0838 (1210056-15)			Lab File ID: 1005615.D			Analyzed: 10/11/12 00:48			
1,4-Dichlorobenzene-d4	507666	4.904	522096	4.906	97	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1885734	6.612	2021463	6.62	93	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1058698	8.87	1078596	8.867	98	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1799793	10.648	1954357	10.654	92	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1605982	13.896	1651153	13.911	97	50 - 200	-0.0150	+/-0.50	
Perylene-d12	1583965	15.977	1586533	15.984	100	50 - 200	-0.0070	+/-0.50	
GW0839 (1210056-17)			Lab File ID: 1005617.D			Analyzed: 10/11/12 01:15			
1,4-Dichlorobenzene-d4	473062	4.906	522096	4.906	91	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1876828	6.618	2021463	6.62	93	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	928968	8.869	1078596	8.867	86	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	1649499	10.647	1954357	10.654	84	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	1440454	13.898	1651153	13.911	87	50 - 200	-0.0130	+/-0.50	
Perylene-d12	1455017	15.97	1586533	15.984	92	50 - 200	-0.0140	+/-0.50	
GW0840 (1210056-19)			Lab File ID: 1005619.D			Analyzed: 10/11/12 01:42			
1,4-Dichlorobenzene-d4	561406	4.903	522096	4.906	108	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2276787	6.614	2021463	6.62	113	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1210081	8.863	1078596	8.867	112	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	2135634	10.643	1954357	10.654	109	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1781854	13.9	1651153	13.911	108	50 - 200	-0.0110	+/-0.50	
Perylene-d12	1724209	15.975	1586533	15.984	109	50 - 200	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28913	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J28913-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/12/12 15:28			
1,4-Dichlorobenzene-d4	625233	5.539	692783	5.592	90	50 - 200	-0.0530	+/-0.50	
Naphthalene-d8	2246265	7.206	2409624	7.268	93	50 - 200	-0.0620	+/-0.50	
Acenaphthene-d10	1466803	9.452	1479598	9.504	99	50 - 200	-0.0520	+/-0.50	
Phenanthrene-d10	2340215	11.253	2454205	11.305	95	50 - 200	-0.0520	+/-0.50	
Chrysene-d12	2408372	14.647	2419622	14.71	100	50 - 200	-0.0630	+/-0.50	
Perylene-d12	2569798	16.914	2394332	16.987	107	50 - 200	-0.0730	+/-0.50	
Calibration Check (2J28913-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/12/12 15:56			
1,4-Dichlorobenzene-d4	619499	5.539	625233	5.539	99	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2259319	7.206	2246265	7.206	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1486634	9.452	1466803	9.452	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2364020	11.253	2340215	11.253	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2507882	14.647	2408372	14.647	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	2607275	16.914	2569798	16.914	101	50 - 200	0.0000	+/-0.50	
Blank (2J10012-BLK1)			Lab File ID: J10012B1.D			Analyzed: 10/12/12 17:20			
1,4-Dichlorobenzene-d4	627159	5.532	625233	5.539	100	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2238671	7.209	2246265	7.206	100	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1487493	9.444	1466803	9.452	101	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2356116	11.245	2340215	11.253	101	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2455552	14.64	2408372	14.647	102	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2553950	16.917	2569798	16.914	99	50 - 200	0.0030	+/-0.50	
LCS (2J10012-BS1)			Lab File ID: J10012L1.D			Analyzed: 10/12/12 17:49			
1,4-Dichlorobenzene-d4	629953	5.539	625233	5.539	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2263286	7.206	2246265	7.206	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1458693	9.452	1466803	9.452	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2336603	11.252	2340215	11.253	100	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2399640	14.647	2408372	14.647	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	2508589	16.914	2569798	16.914	98	50 - 200	0.0000	+/-0.50	
GW0851 (1210056-21)			Lab File ID: 1005621.D			Analyzed: 10/12/12 20:36			
1,4-Dichlorobenzene-d4	600826	5.531	625233	5.539	96	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2180208	7.208	2246265	7.206	97	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1393579	9.454	1466803	9.452	95	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2228311	11.244	2340215	11.253	95	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	2268670	14.65	2408372	14.647	94	50 - 200	0.0030	+/-0.50	
Perylene-d12	2338010	16.916	2569798	16.914	91	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28913	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0852 (1210056-23)			Lab File ID: 1005623.D			Analyzed: 10/12/12 21:05			
1,4-Dichlorobenzene-d4	605234	5.539	625233	5.539	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2161987	7.206	2246265	7.206	96	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1400640	9.452	1466803	9.452	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2227158	11.252	2340215	11.253	95	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2346211	14.647	2408372	14.647	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	2434301	16.914	2569798	16.914	95	50 - 200	0.0000	+/-0.50	
GW0853 (1210056-25)			Lab File ID: 1005625.D			Analyzed: 10/12/12 21:33			
1,4-Dichlorobenzene-d4	526678	5.539	625233	5.539	84	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2064296	7.216	2246265	7.206	92	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	1198184	9.451	1466803	9.452	82	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1938513	11.252	2340215	11.253	83	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2106397	14.647	2408372	14.647	87	50 - 200	0.0000	+/-0.50	
Perylene-d12	2119897	16.914	2569798	16.914	82	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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	1.226402	10	1.172004	20	1.216724	40	1.106133	50	1.105635	60	1.066451
Acenaphthylene	5	1.882626	10	1.825223	20	1.853268	40	1.686654	50	1.630586	60	1.58258
Acetophenone												
Aniline	5	2.075085	10	2.083071	20	2.115921	40	2.012055	50	1.981178	60	1.922491
Anthracene	5	1.190117	10	1.216677	20	1.210592	40	1.133693	50	1.074923	60	1.027613
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.07808	10	1.158464	20	1.187972	40	1.125607	50	1.111216	60	1.080801
Benzo(a)pyrene	5	0.8969984	10	0.988024	20	1.053969	40	1.082485	50	1.050188	60	1.047536
Benzo(b)fluoranthene	5	0.9192774	10	0.9995984	20	1.027394	40	1.163507	50	1.151156	60	1.102624
Benzo(g,h,i)perylene	5	0.8810196	10	0.9354534	20	1.023945	40	1.041762	50	1.031788	60	1.025219
Benzoic acid	5	0.1800138	10	0.1971305	20	0.2320922	40	0.2667048	50	0.3038777	60	0.2934733
Benzo(k)fluoranthene	5	1.385345	10	1.389508	20	1.50509	40	1.294027	50	1.247302	60	1.255501
Benzyl alcohol	5	0.7723651	10	0.8400763	20	0.84085	40	0.8585047	50	0.855408	60	0.8444593
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2285879	10	0.242289	20	0.2441512	40	0.2392219	50	0.2372267	60	0.2395644
Butylbenzylphthalate	5	0.4630096	10	0.4944857	20	0.5607301	40	0.557858	50	0.5631426	60	0.5528675
Caprolactam												
Carbazole	5	1.067151	10	1.166965	20	1.142299	40	1.080385	50	1.01809	60	0.9924129
4-Chloro-3-methylphenol	5	0.2949249	10	0.3240161	20	0.3402999	40	0.3358677	50	0.3333448	60	0.3279835
4-Chloroaniline	5	0.437418	10	0.4487067	20	0.4701531	40	0.4455991	50	0.4474384	60	0.4368809
Bis(2-chloroethoxy)methane	5	0.4529439	10	0.460763	20	0.4579347	40	0.437325	50	0.43609	60	0.4299759
Bis(2-chloroethyl)ether	5	1.311057	10	1.320356	20	1.353769	40	1.299644	50	1.303123	60	1.255375
2,2'-Oxybis-1-chloropropane	5	1.751597	10	1.7475	20	1.739639	40	1.678201	50	1.686332	60	1.618641
2-Chloronaphthalene	5	1.195427	10	1.175982	20	1.194056	40	1.110827	50	1.115289	60	1.070192
2-Chlorophenol	5	1.202517	10	1.275122	20	1.326919	40	1.300237	50	1.289146	60	1.268001
4-Chlorophenyl phenyl ether	5	0.6742086	10	0.6954678	20	0.6890185	40	0.6402671	50	0.6432798	60	0.6252312
Chrysene	5	1.169698	10	1.134234	20	1.187301	40	1.098305	50	1.054946	60	1.023574
Dibenz(a,h)anthracene	5	0.7929059	10	0.9127398	20	0.9778044	40	1.040796	50	1.012641	60	1.013459
Dibenzofuran	5	1.703833	10	1.693413	20	1.704482	40	1.540782	50	1.529322	60	1.472516

INITIAL CALIBRATION DATA

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2261001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 9/11/12 10:38 9/11/12 17:40

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	1.16861	10	1.255953	20	1.283272	40	1.181135	50	1.106647	60	1.06418
1,4-Dichlorobenzene	5	1.531421	10	1.56121	20	1.527423	40	1.451014	50	1.445896	60	1.432695
1,3-Dichlorobenzene	5	1.475221	10	1.490131	20	1.527514	40	1.450766	50	1.468528	60	1.394971
1,2-Dichlorobenzene	5	1.455679	10	1.443407	20	1.456504	40	1.4098	50	1.385694	60	1.338072
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2847428	10	0.3263219	20	0.3328921	40	0.3242484	50	0.3321999	60	0.3215921
Diethylphthalate	5	1.323041	10	1.286795	20	1.368087	40	1.251514	50	1.243205	60	1.211569
2,4-Dimethylphenol	5	0.3723077	10	0.3922829	20	0.4013375	40	0.390409	50	0.388078	60	0.3762622
Dimethyl phthalate	5	1.373422	10	1.353026	20	1.386701	40	1.27275	50	1.233596	60	1.187798
4,6-Dinitro-2-methylphenol	5	7.614394E-02	10	0.1096655	20	0.130206	40	0.1508675	50	0.1529725	60	0.1565992
2,4-Dinitrophenol	5	7.088052E-02	10	0.1093294	20	0.1395075	40	0.1679181	50	0.1812304	60	0.190222
2,4-Dinitrotoluene	5	0.3531728	10	0.3912608	20	0.43451	40	0.4257123	50	0.4261383	60	0.426781
2,6-Dinitrotoluene	5	0.2714151	10	0.2923165	20	0.3163528	40	0.3062322	50	0.3212079	60	0.3121858
Di-n-octylphthalate	5	0.8771769	10	1.020225	20	1.123468	40	1.220057	50	1.208407	60	1.209285
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8301083	10	0.867185	20	0.861467	40	0.8127303	50	0.7719215	60	0.7712792
Bis(2-ethylhexyl)phthalate	5	0.5881362	10	0.6483224	20	0.7324606	40	0.7333481	50	0.7419646	60	0.7344114
Fluoranthene	5	1.23635	10	1.317053	20	1.322223	40	1.210618	50	1.137281	60	1.112443
Fluorene	5	1.465575	10	1.402744	20	1.471988	40	1.327424	50	1.326116	60	1.285392
2-Fluorobiphenyl	5	1.406801	10	1.339106	20	1.373728	40	1.274645	50	1.266637	60	1.228683
2-Fluorophenol	10	1.159714	20	1.147427	40	1.17776	80	1.150615	100	1.131493	120	1.125717
Hexachlorobenzene	5	0.2463841	10	0.2654048	20	0.2691727	40	0.260909	50	0.2592312	60	0.2550784
Hexachlorobutadiene	5	0.2055813	10	0.2041694	20	0.2054767	40	0.2018028	50	0.2080746	60	0.2058022
Hexachlorocyclopentadiene	5	0.2916181	10	0.3162971	20	0.3534771	40	0.3570826	50	0.3593493	60	0.3660123
Hexachloroethane	5	0.6211759	10	0.6184263	20	0.6267446	40	0.6115714	50	0.6020682	60	0.6042834
Indeno(1,2,3-cd)pyrene	5	0.9842869	10	1.100186	20	1.231231	40	1.249436	50	1.252622	60	1.241693
Isophorone	5	0.7053235	10	0.7342949	20	0.7372863	40	0.7150188	50	0.700254	60	0.6863517
1-Methylnaphthalene	5	0.6263254	10	0.6219691	20	0.6167648	40	0.6025289	50	0.5932049	60	0.5754876
2-Methylnaphthalene	5	0.6487649	10	0.6439735	20	0.6616897	40	0.619805	50	0.6168634	60	0.5906787
2-Methylphenol	5	1.13215	10	1.166193	20	1.214549	40	1.183468	50	1.190711	60	1.14973

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

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-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
3-Methylphenol/4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
Naphthalene	5	1.131168	10	1.115217	20	1.097102	40	1.018	50	0.9838111	60	0.9336806
4-Nitroaniline	5	0.310375	10	0.2880078	20	0.3319512	40	0.3278091	50	0.3394978	60	0.3319657
3-Nitroaniline	5	0.3061045	10	0.3165566	20	0.3311253	40	0.3337432	50	0.3324556	60	0.333826
2-Nitroaniline	5	0.3122476	10	0.31289	20	0.3414956	40	0.3500366	50	0.3516678	60	0.3465091
Nitrobenzene	5	0.4067955	10	0.405922	20	0.4226794	40	0.4097124	50	0.4155971	60	0.4022004
Nitrobenzene-d5	5	0.3901635	10	0.4008388	20	0.4181021	40	0.4098124	50	0.4068753	60	0.4013554
4-Nitrophenol	5	0.2205213	10	0.2238418	20	0.2704735	40	0.2810258	50	0.2788603	60	0.2746765
2-Nitrophenol	5	0.1572246	10	0.170622	20	0.1900949	40	0.1941729	50	0.1979488	60	0.1972528
N-Nitrosodimethylamine	5	0.6561451	10	0.6489775	20	0.6975004	40	0.6585053	50	0.6588495	60	0.6399517
N-Nitrosodiphenylamine	5	0.7117719	10	0.7279842	20	0.7319408	40	0.6857475	50	0.6689627	60	0.6710496
N-Nitroso-di-n-propylamine	5	1.013651	10	1.014837	20	1.036074	40	0.9774363	50	0.9701911	60	0.9510779
Pentachlorophenol	5	0.1242903	10	0.1472987	20	0.1675192	40	0.1807789	50	0.1772911	60	0.1753101
Phenanthrene	5	1.243048	10	1.256443	20	1.204927	40	1.111894	50	1.046238	60	1.020124
Phenol	5	1.788617	10	1.724966	20	1.754811	40	1.756593	50	1.70602	60	1.681391
Phenol-d6	10	1.56702	20	1.578964	40	1.575631	80	1.495776	100	1.472042	120	1.433011
Pyrene	5	1.269569	10	1.335888	20	1.347438	40	1.215283	50	1.176284	60	1.135994
Pyridine	5	1.450894	10	1.508679	20	1.500758	40	1.402303	50	1.421701	60	1.439583
Terphenyl-d14	5	0.759045	10	0.7914832	20	0.8267835	40	0.7856392	50	0.7550846	60	0.7440656
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3129583	10	0.3205266	20	0.3493419	40	0.3448924	50	0.3561204	60	0.3409846
2,4,6-Tribromophenol	10	9.746889E-02	20	0.1098797	40	0.1147914	80	0.1197327	100	0.11624	120	0.116617
1,2,4-Trichlorobenzene	5	0.3494616	10	0.3476154	20	0.3551252	40	0.3384588	50	0.3410857	60	0.3336289
2,4,6-Trichlorophenol	5	0.3633886	10	0.3835832	20	0.4015645	40	0.3975579	50	0.3943937	60	0.396121
2,4,5-Trichlorophenol	5	0.3479752	10	0.3593403	20	0.4048246	40	0.4025023	50	0.4053154	60	0.4080477

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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	1.007038	100	0.9448967								
Acenaphthylene	80	1.463699	100	1.354083								
Acetophenone					5	1.854627	10	1.791064	20	1.814119	40	1.786505
Aniline	80	1.836509	100	1.778359								
Anthracene	80	0.9395351	100	0.8619493								
Atrazine					5	0.2149468	10	0.2213603	20	0.225859	40	0.2406622
Benzaldehyde					5	1.101007	10	1.076328	20	1.07395	40	0.9905509
Benzidine					5	0.5982221	10	0.6233508	20	0.6721449	40	0.6816705
Benzo(a)anthracene	80	1.039064	100	0.988222								
Benzo(a)pyrene	80	1.057477	100	0.9849124								
Benzo(b)fluoranthene	80	1.000322	100	1.137211								
Benzo(g,h,i)perylene	80	1.010113	100	1.00717								
Benzoic acid	80	0.288002	100	0.3073683								
Benzo(k)fluoranthene	80	1.288017	100	1.039958								
Benzyl alcohol	80	0.8399113	100	0.8291029								
1,1-Biphenyl					5	1.444924	10	1.462762	20	1.465034	40	1.400757
4-Bromophenyl-phenylether	80	0.2322959	100	0.2267755								
Butylbenzylphthalate	80	0.5450172	100	0.5332066								
Caprolactam					5	9.508992E-02	10	0.0970182	20	0.1014958	40	0.1071126
Carbazole	80	0.9117642	100	0.8603283								
4-Chloro-3-methylphenol	80	0.3239361	100	0.3128581								
4-Chloroaniline	80	0.4181819	100	0.4057045								
Bis(2-chloroethoxy)methane	80	0.412871	100	0.401461								
Bis(2-chloroethyl)ether	80	1.234201	100	1.196301								
2,2'-Oxybis-1-chloropropane	80	1.559356	100	1.522435								
2-Chloronaphthalene	80	1.037875	100	0.9697123								
2-Chlorophenol	80	1.250053	100	1.221566								
4-Chlorophenyl phenyl ether	80	0.6050546	100	0.582263								
Chrysene	80	0.9773309	100	0.9316359								
Dibenz(a,h)anthracene	80	1.013161	100	0.9812686								
Dibenzofuran	80	1.350958	100	1.254226								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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	0.9816543	100	0.8971291								
1,4-Dichlorobenzene	80	1.376729	100	1.309893								
1,3-Dichlorobenzene	80	1.370178	100	1.332432								
1,2-Dichlorobenzene	80	1.299695	100	1.272024								
3,3'-Dichlorobenzidine					5	0.3543587	10	0.3740634	20	0.3969158	40	0.4162336
2,6-Dichlorophenol					5	0.3029182	10	0.3037802	20	0.3026235	40	0.3162123
2,4-Dichlorophenol	80	0.3128693	100	0.3030876								
Diethylphthalate	80	1.176199	100	1.110356								
2,4-Dimethylphenol	80	0.3615218	100	0.3601468								
Dimethyl phthalate	80	1.147566	100	1.101382								
4,6-Dinitro-2-methylphenol	80	0.1611426	100	0.1632566								
2,4-Dinitrophenol	80	0.2034171	100	0.2067659								
2,4-Dinitrotoluene	80	0.4250739	100	0.4213723								
2,6-Dinitrotoluene	80	0.3060406	100	0.3029055								
Di-n-octylphthalate	80	1.19253	100	1.130569								
1,4-Dioxane					5	0.5681997	10	0.5720167	20	0.5405075	40	0.5215231
1,2-Diphenylhydrazine	80	0.711338	100	0.6708871								
Bis(2-ethylhexyl)phthalate	80	0.7201792	100	0.6965867								
Fluoranthene	80	1.023074	100	0.9552043								
Fluorene	80	1.192825	100	1.10791								
2-Fluorobiphenyl	80	1.168444	100	1.100862								
2-Fluorophenol	160	1.054541	200	1.011147								
Hexachlorobenzene	80	0.2494867	100	0.2407232								
Hexachlorobutadiene	80	0.1926689	100	0.1935308								
Hexachlorocyclopentadiene	80	0.3720966	100	0.360964								
Hexachloroethane	80	0.587194	100	0.5769922								
Indeno(1,2,3-cd)pyrene	80	1.219234	100	1.186028								
Isophorone	80	0.6458218	100	0.6339611								
1-Methylnaphthalene	80	0.5292253	100	0.5167777								
2-Methylnaphthalene	80	0.5632596	100	0.5391497								
2-Methylphenol	80	1.122389	100	1.116647								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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-Methylphenol	80	1.197636	100	1.178114								
4-Methylphenol	80	1.197636	100	1.178114								
3-Methylphenol/4-Methylphenol	80	1.197636	100	1.178114								
Naphthalene	80	0.8568929	100	0.8020783								
4-Nitroaniline	80	0.3344389	100	0.3257398								
3-Nitroaniline	80	0.3329237	100	0.3339491								
2-Nitroaniline	80	0.3445397	100	0.3353103								
Nitrobenzene	80	0.3882844	100	0.3827503								
Nitrobenzene-d5	80	0.3854518	100	0.3790163								
4-Nitrophenol	80	0.2853949	100	0.2769577								
2-Nitrophenol	80	0.1988147	100	0.1958569								
N-Nitrosodimethylamine	80	0.6300438	100	0.6199096								
N-Nitrosodiphenylamine	80	0.6354454	100	0.5938058								
N-Nitroso-di-n-propylamine	80	0.9339268	100	0.919134								
Pentachlorophenol	80	0.1795239	100	0.1780552								
Phenanthrene	80	0.9246607	100	0.8510275								
Phenol	80	1.621348	100	1.575871								
Phenol-d6	160	1.363933	200	1.326291								
Pyrene	80	1.029161	100	0.9464214								
Pyridine	80	1.417841	100	1.409563								
Terphenyl-d14	80	0.7003809	100	0.6796219								
1,2,4,5-Tetrachlorobenzene					5	0.3642537	10	0.3739162	20	0.3587545	40	0.3586331
2,3,4,6-Tetrachlorophenol	80	0.3514703	100	0.348575								
2,4,6-Tribromophenol	160	0.114871	200	0.1137257								
1,2,4-Trichlorobenzene	80	0.3197429	100	0.3182462								
2,4,6-Trichlorophenol	80	0.3928045	100	0.3853417								
2,4,5-Trichlorophenol	80	0.3978263	100	0.3895499								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

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	1.76145	60	1.801983	80	1.673292	100	1.611182				
Aniline												
Anthracene												
Atrazine	50	0.2359451	60	0.2357328	80	0.2298759	100	0.2247727				
Benzaldehyde	50	0.9748365	60	0.9989734	80	0.8898613	100	0.8739512				
Benzidine	50	0.6776385	60	0.680287	80	0.6439769	100	0.6296377				
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	1.364835	60	1.327666	80	1.236441	100	1.162958				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1109058	60	0.1124372	80	0.1099913	100	0.1099271				
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)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

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	0.416014	60	0.4278231	80	0.412885	100	0.3940041				
2,6-Dichlorophenol	50	0.3200868	60	0.3120857	80	0.3076012	100	0.2959819				
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	0.5110823	60	0.5407586	80	0.5060359	100	0.5102403				
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)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

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-Methylphenol												
4-Methylphenol												
3-Methylphenol/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	0.354329	60	0.3540016	80	0.3422855	100	0.3257612				
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)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.10566	8.941982	9.541375	5.759679E-02			CCC (20)	
Acenaphthylene	1.65984	11.47408	9.309875	5.149462E-02			CCC (20)	
Acetophenone	1.761778	4.548734	6.15075	0.029436			CCC (20)	
Aniline	1.975584	6.156998	5.21875	8.840861E-03			CCC (20)	
Anthracene	1.081887	12.14042	11.38375	4.965419E-02			CCC (20)	
Atrazine	0.2286444	3.743847	11.014	2.800227E-02			CCC (20)	
Benzaldehyde	0.9974323	8.489099	5.032875	0.0350803			CCC (20)	
Benzidine	0.650866	4.862256	12.96125	7.03444E-03			CCC (20)	
Benzo(a)anthracene	1.096178	5.859442	14.68275	0.0361667			CCC (20)	
Benzo(a)pyrene	1.020199	5.91785	16.89375	4.367248E-02			CCC (20)	
Benzo(b)fluoranthene	1.062636	8.32804	16.3765	4.687998E-02			CCC (20)	
Benzo(g,h,i)perylene	0.9945587	5.662765	19.13462	6.322926E-02			CCC (20)	
Benzoic acid	0.2585828	19.18735	7.002875	0.5416775	0.9968332		CCC (20)	
Benzo(k)fluoranthene	1.300594	10.47456	16.41512	4.428847E-02			CCC (20)	
Benzyl alcohol	0.8350847	3.232369	5.801	8.006347E-02			CCC (20)	
1,1-Biphenyl	1.358172	8.14203	8.777	3.752441E-02			CCC (20)	
4-Bromophenyl-phenylether	0.2362641	2.694889	10.759	4.506461E-02			CCC (20)	
Butylbenzylphthalate	0.5337897	6.795952	13.95313	1.982893E-02			CCC (20)	
Caprolactam	0.1054972	6.369373	7.769375	0.1428007			CCC (20)	
Carbazole	1.029924	10.35465	11.592	4.012654E-02			CCC (20)	
4-Chloro-3-methylphenol	0.3241539	4.484259	8.02375	2.422232E-02			CCC (20)	
4-Chloroaniline	0.4387603	4.499309	7.395	6.407021E-02			CCC (20)	
Bis(2-chloroethoxy)methane	0.4361706	4.861304	6.99	5.257221E-02			CCC (20)	
Bis(2-chloroethyl)ether	1.284228	4.005468	5.29525	0.1014556			CCC (20)	
2,2'-Oxybis-1-chloropropane	1.662963	5.286827	6.008	7.846643E-02			CCC (20)	
2-Chloronaphthalene	1.10867	7.247886	8.782	5.276285E-02			CCC (20)	
2-Chlorophenol	1.266695	3.235977	5.356	8.851782E-02			CCC (20)	
4-Chlorophenyl phenyl ether	0.6443488	6.230529	10.16638	5.729773E-03			CCC (20)	
Chrysene	1.072128	8.541599	14.74763	3.641467E-02			CCC (20)	
Dibenz(a,h)anthracene	0.968097	8.317117	18.71425	4.210554E-02			CCC (20)	
Dibenzofuran	1.531191	11.0083	9.734	4.736714E-02			CCC (20)	
Di-n-butylphthalate	1.117323	11.87776	12.081	2.243919E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.454535	5.818776	5.61225	0.013037			CCC (20)	
1,3-Dichlorobenzene	1.438718	4.610703	5.53975	1.248566E-02			CCC (20)	
1,2-Dichlorobenzene	1.382609	5.210718	5.860625	0.0201332			CCC (20)	
3,3'-Dichlorobenzidine	0.3990372	6.177841	14.68175	2.892872E-02			CCC (20)	
2,6-Dichlorophenol	0.3076612	2.595722	7.40325	2.436204E-02			15	
2,4-Dichlorophenol	0.3172443	5.18606	7.101375	4.761375E-02			CCC (20)	
Diethylphthalate	1.246346	6.574405	10.103	6.670748E-02			CCC (20)	
2,4-Dimethylphenol	0.3802932	3.960326	6.8645	1.752451E-02			CCC (20)	
Dimethyl phthalate	1.25703	8.5773	9.232125	5.107294E-02			CCC (20)	
4,6-Dinitro-2-methylphenol	0.1376067	22.31038	10.28925	8.292123E-02	0.9995831		CCC (20)	*
2,4-Dinitrophenol	0.1586589	30.52087	9.602375	5.674957E-02	0.9965146		CCC (20)	*
2,4-Dinitrotoluene	0.4130027	6.633871	9.796125	4.871438E-02			CCC (20)	
2,6-Dinitrotoluene	0.3035821	5.167856	9.315	4.886391E-02			CCC (20)	
Di-n-octylphthalate	1.122715	10.64814	15.776	1.209158E-02			CCC (20)	
1,4-Dioxane	0.5337955	4.869741	2.414375	7.061711E-02			15	
1,2-Diphenylhydrazine	0.7871146	8.877235	10.355	4.530772E-02			CCC (20)	
Bis(2-ethylhexyl)phthalate	0.6994262	7.777001	14.8135	7.521677E-03			CCC (20)	
Fluoranthene	1.164281	11.37119	12.78475	7.212182E-03			CCC (20)	
Fluorene	1.322497	9.629889	10.15838	0.047539			CCC (20)	
2-Fluorobiphenyl	1.269863	8.146411	8.668	5.397084E-02			CCC (20)	
2-Fluorophenol	1.119802	5.107841	4.039	1.607769E-02			CCC (20)	
Hexachlorobenzene	0.2557988	3.811211	10.93875	0.0483882			CCC (20)	
Hexachlorobutadiene	0.2021383	2.894676	7.537375	1.656083E-02			CCC (20)	
Hexachlorocyclopentadiene	0.3471121	8.069592	8.46875	1.743379E-02			CCC (20)	
Hexachloroethane	0.606057	2.830271	6.25375	5.98945E-03			CCC (20)	
Indeno(1,2,3-cd)pyrene	1.18309	7.999515	18.68575	3.410259E-02			CCC (20)	
Isophorone	0.694789	5.463283	6.678375	9.487201E-03			CCC (20)	
1-Methylnaphthalene	0.5852855	7.165809	8.311	5.573635E-02			CCC (20)	
2-Methylnaphthalene	0.6105231	7.071532	8.168625	0.0152489			CCC (20)	
2-Methylphenol	1.15948	3.037164	5.977	7.574059E-02			CCC (20)	
3-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			CCC (20)	
4-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			15	
Naphthalene	0.9922437	12.28808	7.288875	1.449498E-02			CCC (20)	
4-Nitroaniline	0.3237232	5.187175	10.24375	9.360202E-02			CCC (20)	
3-Nitroaniline	0.3275855	3.191586	9.4845	6.968371E-02			CCC (20)	
2-Nitroaniline	0.3368371	4.692985	8.965625	2.313171E-02			CCC (20)	
Nitrobenzene	0.4042427	3.277603	6.37825	1.726574E-02			CCC (20)	
Nitrobenzene-d5	0.3989519	3.300556	6.357375	2.012303E-02			CCC (20)	
4-Nitrophenol	0.263969	9.91531	9.692875	0.0512375			CCC (20)	
2-Nitrophenol	0.1877485	8.18829	6.8025	0.0109992			CCC (20)	
N-Nitrosodimethylamine	0.6512354	3.595621	2.705	0.1357375			CCC (20)	
N-Nitrosodiphenylamine	0.6783385	6.967624	10.324	4.608146E-02			CCC (20)	
N-Nitroso-di-n-propylamine	0.977041	4.270567	6.194375	7.506511E-02			CCC (20)	
Pentachlorophenol	0.1662584	12.1407	11.15975	0.0122687			CCC (20)	
Phenanthrene	1.082295	13.7748	11.32925	4.510804E-02			CCC (20)	
Phenol	1.701202	4.253285	5.197	0.128711			CCC (20)	
Phenol-d6	1.476584	6.577862	5.18125	0.1022497			CCC (20)	
Pyrene	1.182005	12.0001	13.058	3.821264E-02			CCC (20)	
Pyridine	1.443915	2.816602	2.7155	0.1280989			CCC (20)	
Terphenyl-d14	0.755263	6.374122	13.26762	4.197651E-02			CCC (20)	
1,2,4,5-Tetrachlorobenzene	0.3539919	4.108493	8.43825	1.427966E-02			CCC (20)	
2,3,4,6-Tetrachlorophenol	0.3406087	4.554587	9.94875	1.854361E-02			CCC (20)	
2,4,6-Tribromophenol	0.1129158	6.053375	10.48725	7.380264E-03			CCC (20)	
1,2,4-Trichlorobenzene	0.3379206	3.985092	7.2165	8.724103E-03			CCC (20)	
2,4,6-Trichlorophenol	0.3893444	3.105104	8.572375	2.137935E-02			CCC (20)	
2,4,5-Trichlorophenol	0.3894227	5.904797	8.613625	1.934255E-02			CCC (20)	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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	1.078358	10	1.091539	20	1.150309	40	1.057294	50	1.083217	60	1.161989
Acenaphthylene	5	1.747665	10	1.809821	20	1.880925	40	1.815603	50	1.860143	60	1.917333
Acetophenone												
Aniline	5	2.034952	10	2.098154	20	2.088473	40	2.015467	50	2.015704	60	1.995186
Anthracene	5	0.9557116	10	1.051101	20	1.032974	40	1.109723	50	1.037431	60	1.068324
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.065938	10	1.180723	20	1.214262	40	1.20537	50	1.245553	60	1.216726
Benzo(a)pyrene	5	0.9506992	10	1.003822	20	1.083428	40	1.054362	50	1.08976	60	1.093509
Benzo(b)fluoranthene	5	1.094804	10	1.141286	20	1.240416	40	1.159298	50	1.265436	60	1.130716
Benzo(g,h,i)perylene	5	0.873601	10	0.9208451	20	0.9811268	40	0.9604755	50	0.9942328	60	0.9934889
Benzoic acid	5	~~3.336673E-02~~	10	~~0.1042989~~	20	0.1781992	40	0.2115791	50	0.2493121	60	0.243875
Benzo(k)fluoranthene	5	1.17522	10	1.187723	20	1.232882	40	1.174034	50	1.110847	60	1.274912
Benzyl alcohol	5	0.7801675	10	0.8684121	20	0.8960432	40	0.9259088	50	0.9350818	60	0.9476074
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.1840548	10	0.1903484	20	0.1851788	40	0.1896567	50	0.1884242	60	0.192172
Butylbenzylphthalate	5	0.5378174	10	0.6313114	20	0.7048811	40	0.7407231	50	0.7440543	60	0.747273
Caprolactam												
Carbazole	5	0.9226635	10	1.009006	20	0.9921687	40	1.031058	50	1.000825	60	0.9766577
4-Chloro-3-methylphenol	5	0.2896661	10	0.3081843	20	0.3239889	40	0.3149782	50	0.3205197	60	0.3138509
4-Chloroaniline	5	0.412414	10	0.4306366	20	0.4837794	40	0.436585	50	0.4833539	60	0.4436474
Bis(2-chloroethoxy)methane	5	0.4042298	10	0.4296612	20	0.4504452	40	0.431978	50	0.448029	60	0.4311348
Bis(2-chloroethyl)ether	5	1.282842	10	1.377296	20	1.404086	40	1.383948	50	1.406371	60	1.397247
2,2'-Oxybis-1-chloropropane	5	2.079575	10	2.070875	20	2.085243	40	1.938042	50	1.956399	60	1.997282
2-Chloronaphthalene	5	1.134423	10	1.123192	20	1.159795	40	1.086798	50	1.143536	60	1.196723
2-Chlorophenol	5	1.350901	10	1.424765	20	1.43568	40	1.423436	50	1.441421	60	1.438945
4-Chlorophenyl phenyl ether	5	0.6566982	10	0.6461916	20	0.6558058	40	0.616605	50	0.662581	60	0.6436193
Chrysene	5	1.180592	10	1.118632	20	1.129139	40	1.112537	50	1.093442	60	1.117172
Dibenz(a,h)anthracene	5	0.8520107	10	0.9191281	20	0.9859254	40	0.964782	50	0.9906383	60	0.9921989
Dibenzofuran	5	1.536132	10	1.588926	20	1.616118	40	1.515229	50	1.610123	60	1.625652

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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	1.121845	10	1.364031	20	1.381968	40	1.450375	50	1.403412	60	1.409989
1,4-Dichlorobenzene	5	1.418111	10	1.455447	20	1.467162	40	1.438916	50	1.46772	60	1.457618
1,3-Dichlorobenzene	5	1.432105	10	1.423908	20	1.485136	40	1.419986	50	1.450071	60	1.478233
1,2-Dichlorobenzene	5	1.360908	10	1.386994	20	1.408355	40	1.331052	50	1.372344	60	1.378169
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2504963	10	0.2746682	20	0.2884465	40	0.2773906	50	0.2919712	60	0.2820978
Diethylphthalate	5	1.344265	10	1.37675	20	1.48977	40	1.350549	50	1.414839	60	1.45629
2,4-Dimethylphenol	5	0.3629362	10	0.3797333	20	0.3870518	40	0.3639624	50	0.3879981	60	0.3740538
Dimethyl phthalate	5	1.317984	10	1.319991	20	1.366723	40	1.297807	50	1.329765	60	1.37034
4,6-Dinitro-2-methylphenol	5	~~5.165542E-02~~	10	0.1214892	20	0.1473356	40	0.1691331	50	0.1729752	60	0.1701025
2,4-Dinitrophenol	5		10	~~0.1170329~~	20	0.1954921	40	0.2259456	50	0.2475596	60	0.2522798
2,4-Dinitrotoluene	5	0.3919056	10	0.409689	20	0.449581	40	0.445946	50	0.4438291	60	0.4615775
2,6-Dinitrotoluene	5	0.3195336	10	0.3227965	20	0.3468408	40	0.3285664	50	0.3350427	60	0.3365442
Di-n-octylphthalate	5	0.9851135	10	1.323817	20	1.615828	40	1.726339	50	1.792135	60	1.80512
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8195813	10	0.9088856	20	0.8431758	40	0.8592516	50	0.8415894	60	0.8397251
Bis(2-ethylhexyl)phthalate	5	0.6674583	10	0.792665	20	0.9650525	40	0.948891	50	0.9797275	60	0.9617742
Fluoranthene	5	1.033247	10	1.140173	20	1.114859	40	1.165934	50	1.147447	60	1.135387
Fluorene	5	1.280252	10	1.303341	20	1.344766	40	1.293968	50	1.278522	60	1.299757
2-Fluorobiphenyl	5	1.331933	10	1.313736	20	1.347718	40	1.260582	50	1.292124	60	1.335712
2-Fluorophenol	10	1.261463	20	1.333369	40	1.391816	80	1.373594	100	1.371486	120	1.416233
Hexachlorobenzene	5	0.2117027	10	0.2188891	20	0.2125305	40	0.2190107	50	0.2125396	60	0.2126697
Hexachlorobutadiene	5	0.18889	10	0.1880685	20	0.1903446	40	0.184078	50	0.1925968	60	0.1904308
Hexachlorocyclopentadiene	5	0.3361692	10	0.3564788	20	0.3928528	40	0.389935	50	0.4009408	60	0.4104188
Hexachloroethane	5	0.6744255	10	0.6618072	20	0.6777116	40	0.6819102	50	0.6541621	60	0.6691686
Indeno(1,2,3-cd)pyrene	5	1.023988	10	1.097857	20	1.164043	40	1.127006	50	1.168136	60	1.159338
Isophorone	5	0.6544687	10	0.6904889	20	0.7048065	40	0.6891412	50	0.7239657	60	0.6868411
1-Methylnaphthalene	5	0.5349277	10	0.5277341	20	0.5451573	40	0.5308657	50	0.5315541	60	0.5158618
2-Methylnaphthalene	5	0.5363026	10	0.5497478	20	0.5829233	40	0.5598716	50	0.5678542	60	0.5475243
2-Methylphenol	5	1.16664	10	1.257702	20	1.280844	40	1.262866	50	1.258925	60	1.261235

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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-Methylphenol	5	1.226175	10	1.306254	20	1.312226	40	1.29937	50	1.326631	60	1.343047
4-Methylphenol	5	1.226175	10	1.306254	20	1.312226	40	1.29937	50	1.326631	60	1.343047
3-Methylphenol/4-Methylphenol	5	1.226175	10	1.306254	20	1.312226	40	1.29937	50	1.326631	60	1.343047
Naphthalene	5	1.023081	10	1.070714	20	1.080121	40	1.036293	50	1.077688	60	1.042967
4-Nitroaniline	5	0.2849379	10	0.342558	20	0.3877042	40	0.3633968	50	0.3862954	60	0.3990397
3-Nitroaniline	5	0.3433982	10	0.3754444	20	0.3803338	40	0.3819068	50	0.3847421	60	0.3961158
2-Nitroaniline	5	0.2894728	10	0.3136377	20	0.3494143	40	0.3458329	50	0.3803824	60	0.3823772
Nitrobenzene	5	0.3669764	10	0.3705092	20	0.400336	40	0.3785477	50	0.3925081	60	0.3821948
Nitrobenzene-d5	5	0.3518869	10	0.3639233	20	0.3939298	40	0.3709787	50	0.3847197	60	0.3806891
4-Nitrophenol	5	~~0.1505435~~	10	0.2310599	20	0.2719388	40	0.271958	50	0.2767402	60	0.285024
2-Nitrophenol	5	0.1700175	10	0.191862	20	0.2091951	40	0.2130391	50	0.2083903	60	0.2076023
N-Nitrosodimethylamine	5	0.6059567	10	0.6222091	20	0.6532175	40	0.6521997	50	0.6656932	60	0.6665015
N-Nitrosodiphenylamine	5	0.5883223	10	0.6268656	20	0.6106598	40	0.6249416	50	0.6043468	60	0.6158201
N-Nitroso-di-n-propylamine	5	0.8766796	10	0.9234361	20	0.9689328	40	0.9542772	50	0.9653697	60	0.9358801
Pentachlorophenol	5	~~8.199479E-02~~	10	0.1301918	20	0.1425881	40	0.1525982	50	0.1476072	60	0.1450178
Phenanthrene	5	1.000914	10	1.119326	20	1.017577	40	1.073733	50	1.018844	60	1.039659
Phenol	5	1.865674	10	1.855152	20	1.899259	40	1.894641	50	1.864679	60	1.837211
Phenol-d6	10	1.656049	20	1.69728	40	1.737889	80	1.671449	100	1.669154	120	1.652624
Pyrene	5	1.354835	10	1.441816	20	1.436668	40	1.429908	50	1.445343	60	1.402609
Pyridine	5	1.16835	10	1.532897	20	1.35295	40	1.433837	50	1.438428	60	1.466185
Terphenyl-d14	5	0.7571837	10	0.7839006	20	0.8209707	40	0.7956398	50	0.8018879	60	0.7793284
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2909695	10	0.3003154	20	0.3412436	40	0.3233075	50	0.3633597	60	0.3434019
2,4,6-Tribromophenol	10	0.1011111	20	0.1213375	40	0.1158315	80	0.1202189	100	0.1150394	120	0.1131525
1,2,4-Trichlorobenzene	5	0.3180939	10	0.3245395	20	0.3356369	40	0.3329124	50	0.3316005	60	0.3157609
2,4,6-Trichlorophenol	5	0.3512483	10	0.3772235	20	0.4091251	40	0.4022465	50	0.4133945	60	0.422525
2,4,5-Trichlorophenol	5	0.3551846	10	0.4100343	20	0.4109608	40	0.3964285	50	0.422446	60	0.4265941

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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	1.142599	100	1.071342								
Acenaphthylene	80	1.926015	100	1.763933								
Acetophenone					5	1.619646	10	1.740843	20	1.810852	40	1.833286
Aniline	80	1.876443	100	1.840774								
Anthracene	80	1.047485	100	1.032091								
Atrazine					5	0.192551	10	0.1880945	20	0.200026	40	0.2075385
Benzaldehyde					5	1.001283	10	1.041618	20	1.03999	40	1.031096
Benzidine					5	0.6871057	10	0.7213301	20	0.7648218	40	0.7238901
Benzo(a)anthracene	80	1.249174	100	1.180346								
Benzo(a)pyrene	80	1.088128	100	1.090548								
Benzo(b)fluoranthene	80	1.100118	100	1.147987								
Benzo(g,h,i)perylene	80	0.9488366	100	0.9725153								
Benzoic acid	80	0.2606964	100	~~0.290386~~								
Benzo(k)fluoranthene	80	1.220071	100	1.175463								
Benzyl alcohol	80	0.9277269	100	0.9304952								
1,1-Biphenyl					5	1.388813	10	1.453335	20	1.453578	40	1.440055
4-Bromophenyl-phenylether	80	0.187341	100	0.183782								
Butylbenzylphthalate	80	0.7523327	100	0.7605151								
Caprolactam					5	6.971707E-02	10	9.951621E-02	20	0.1069335	40	0.105017
Carbazole	80	1.041472	100	1.004376								
4-Chloro-3-methylphenol	80	0.311311	100	0.3111777								
4-Chloroaniline	80	0.4311253	100	0.4362476								
Bis(2-chloroethoxy)methane	80	0.409009	100	0.4381248								
Bis(2-chloroethyl)ether	80	1.351439	100	1.370473								
2,2'-Oxybis-1-chloropropane	80	1.857614	100	1.77123								
2-Chloronaphthalene	80	1.143831	100	1.125047								
2-Chlorophenol	80	1.425647	100	1.423994								
4-Chlorophenyl phenyl ether	80	0.6773906	100	0.6240733								
Chrysene	80	1.118683	100	1.061078								
Dibenz(a,h)anthracene	80	0.9618631	100	0.9907785								
Dibenzofuran	80	1.613875	100	1.621238								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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	1.347432	100	1.286163								
1,4-Dichlorobenzene	80	1.421946	100	1.414088								
1,3-Dichlorobenzene	80	1.42303	100	1.414315								
1,2-Dichlorobenzene	80	1.312575	100	1.319473								
3,3'-Dichlorobenzidine					5	0.389908	10	0.3846442	20	0.3921585	40	0.3962447
2,6-Dichlorophenol					5	0.241495	10	0.2709493	20	0.2740549	40	0.2648952
2,4-Dichlorophenol	80	0.2739669	100	0.2775039								
Diethylphthalate	80	1.489321	100	1.435245								
2,4-Dimethylphenol	80	0.3609158	100	0.3861622								
Dimethyl phthalate	80	1.405656	100	1.357664								
4,6-Dinitro-2-methylphenol	80	0.1734137	100	0.1876477								
2,4-Dinitrophenol	80	0.2604075	100	0.2744344								
2,4-Dinitrotoluene	80	0.480631	100	0.4468529								
2,6-Dinitrotoluene	80	0.341853	100	0.3416636								
Di-n-octylphthalate	80	1.86995	100	1.883711								
1,4-Dioxane					5	0.560875	10	0.5388576	20	0.5213462	40	0.5412179
1,2-Diphenylhydrazine	80	0.8709501	100	0.897269								
Bis(2-ethylhexyl)phthalate	80	0.9762106	100	0.9562367								
Fluoranthene	80	1.122532	100	1.113909								
Fluorene	80	1.271268	100	1.256196								
2-Fluorobiphenyl	80	1.297599	100	1.260379								
2-Fluorophenol	160	1.379472	200	1.387109								
Hexachlorobenzene	80	0.2111614	100	0.2033673								
Hexachlorobutadiene	80	0.181221	100	0.1873174								
Hexachlorocyclopentadiene	80	0.4143408	100	0.4053013								
Hexachloroethane	80	0.6355483	100	0.6420661								
Indeno(1,2,3-cd)pyrene	80	1.132948	100	1.155913								
Isophorone	80	0.6760179	100	0.7002178								
1-Methylnaphthalene	80	0.5023474	100	0.5083256								
2-Methylnaphthalene	80	0.5201554	100	0.5363237								
2-Methylphenol	80	1.210891	100	1.182174								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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-Methylphenol	80	1.236298	100	1.217924								
4-Methylphenol	80	1.236298	100	1.217924								
3-Methylphenol/4-Methylphenol	80	1.236298	100	1.217924								
Naphthalene	80	0.9735028	100	1.056734								
4-Nitroaniline	80	0.411538	100	0.4059048								
3-Nitroaniline	80	0.388965	100	0.4008611								
2-Nitroaniline	80	0.3695882	100	0.3849334								
Nitrobenzene	80	0.3701286	100	0.3843924								
Nitrobenzene-d5	80	0.3720713	100	0.3888643								
4-Nitrophenol	80	0.2912901	100	0.2992594								
2-Nitrophenol	80	0.2018061	100	0.2103176								
N-Nitrosodimethylamine	80	0.6413992	100	0.6562163								
N-Nitrosodiphenylamine	80	0.5963412	100	0.5813618								
N-Nitroso-di-n-propylamine	80	0.8974423	100	0.8892744								
Pentachlorophenol	80	0.1596069	100	0.1607682								
Phenanthrene	80	1.009526	100	1.010891								
Phenol	80	1.78643	100	1.778969								
Phenol-d6	160	1.589362	200	1.584416								
Pyrene	80	1.452824	100	1.38967								
Pyridine	80	1.321965	100	1.361542								
Terphenyl-d14	80	0.806259	100	0.7930337								
1,2,4,5-Tetrachlorobenzene					5	0.3109588	10	0.3283232	20	0.3120523	40	0.3055642
2,3,4,6-Tetrachlorophenol	80	0.3562242	100	0.3554636								
2,4,6-Tribromophenol	160	0.1162922	200	0.1177535								
1,2,4-Trichlorobenzene	80	0.301684	100	0.3124771								
2,4,6-Trichlorophenol	80	0.4381165	100	0.4183248								
2,4,5-Trichlorophenol	80	0.4423807	100	0.4369654								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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	1.795168	60	1.82	80	1.787027	100	1.786568				
Aniline												
Anthracene												
Atrazine	50	0.2120339	60	0.2097702	80	0.1997883	100	0.2075006				
Benzaldehyde	50	1.026644	60	1.0362	80	0.9282079	100	0.9457477				
Benzidine	50	0.7950947	60	0.7880691	80	0.7680407	100	0.8209944				
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	1.422235	60	1.436807	80	1.351171	100	1.383309				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1102932	60	0.1151759	80	0.1068605	100	0.1068234				
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)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2272005	Instrument:	MS-BNA1	
Matrix:	Water	Calibration Dates:	9/26/12 18:03	9/27/12 0:53

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	0.4312434	60	0.4238883	80	0.4276871	100	0.4212366				
2,6-Dichlorophenol	50	0.2644257	60	0.2817538	80	0.2737493	100	0.2600474				
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	0.5248702	60	0.5145818	80	0.5227063	100	0.5117972				
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)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

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-Methylphenol												
4-Methylphenol												
3-Methylphenol/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	0.3046199	60	0.3096163	80	0.2945385	100	0.2866329				
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)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.104581	3.667399	8.91525	4.192777E-02			CCC (20)	
Acenaphthylene	1.84018	3.632512	8.682375	3.114255E-02			CCC (20)	
Acetophenone	1.774174	3.851726	5.501125	2.361145E-02			CCC (20)	
Aniline	1.995644	4.626025	4.548875	9.483675E-02			CCC (20)	
Anthracene	1.041855	4.142428	10.737	4.386926E-02			CCC (20)	
Atrazine	0.2021629	4.235431	10.41287	6.554844E-02			CCC (20)	
Benzaldehyde	1.006348	4.459025	4.358	8.713657E-02			CCC (20)	
Benzidine	0.7586683	5.879218	12.31662	3.369084E-02			CCC (20)	
Benzo(a)anthracene	1.194761	4.851248	13.88937	3.244724E-02			CCC (20)	
Benzo(a)pyrene	1.056782	4.973005	15.90437	3.193249E-02			CCC (20)	
Benzo(b)fluoranthene	1.160008	5.331305	15.43212	3.248984E-02			CCC (20)	
Benzo(g,h,i)perylene	0.9556402	4.308529	17.9275	6.469576E-02			CCC (20)	
Benzoic acid	0.2287324	14.70025	6.4624	0.4386429			CCC (20)	
Benzo(k)fluoranthene	1.193894	4.101768	15.46912	0.0546399			CCC (20)	
Benzyl alcohol	0.9014304	6.108482	5.159625	8.622099E-02			CCC (20)	
1,1-Biphenyl	1.416163	2.651145	8.16025	5.658205E-02			CCC (20)	
4-Bromophenyl-phenylether	0.1876197	1.642047	10.138	2.504573E-02			CCC (20)	
Butylbenzylphthalate	0.7023635	11.18941	13.27325	1.993542E-02			CCC (20)	
Caprolactam	0.1025421	13.6366	7.15725	0.1932975			CCC (20)	
Carbazole	0.9972784	3.657535	10.959	3.609112E-02			CCC (20)	
4-Chloro-3-methylphenol	0.3117096	3.303953	7.44875	2.900505E-02			CCC (20)	
4-Chloroaniline	0.4447237	5.754276	6.7835	5.519815E-02			CCC (20)	
Bis(2-chloroethoxy)methane	0.4303265	3.846842	6.383375	3.673511E-02			CCC (20)	
Bis(2-chloroethyl)ether	1.371713	2.941024	4.639125	0.1018083			CCC (20)	
2,2'-Oxybis-1-chloropropane	1.969533	5.742854	5.368625	4.393517E-02			CCC (20)	
2-Chloronaphthalene	1.139168	2.77572	8.159125	6.302636E-02			CCC (20)	
2-Chlorophenol	1.420599	2.046808	4.6855	8.267222E-02			CCC (20)	
4-Chlorophenyl phenyl ether	0.6478706	3.083436	9.553	2.902302E-02			CCC (20)	
Chrysene	1.116409	3.008397	13.94612	3.815723E-02			CCC (20)	
Dibenz(a,h)anthracene	0.9571656	5.131775	17.5935	3.131882E-02			CCC (20)	
Dibenzofuran	1.590912	2.644566	9.110375	3.680324E-02			CCC (20)	
Di-n-butylphthalate	1.345652	7.626803	11.47675	1.523484E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.442626	1.545015	4.93625	5.027495E-02			CCC (20)	
1,3-Dichlorobenzene	1.440848	1.903295	4.862875	7.552796E-02			CCC (20)	
1,2-Dichlorobenzene	1.358734	2.529233	5.18875	8.005298E-02			CCC (20)	
3,3'-Dichlorobenzidine	0.4083764	4.734066	13.90538	2.273012E-02			CCC (20)	
2,6-Dichlorophenol	0.2664213	4.565875	6.7815	6.321973E-02			15	
2,4-Dichlorophenol	0.2770677	4.521523	6.48225	3.371409E-02			CCC (20)	
Diethylphthalate	1.419629	4.096827	9.5105	7.334255E-02			CCC (20)	
2,4-Dimethylphenol	0.3753517	3.065619	6.266	3.594803E-02			CCC (20)	
Dimethyl phthalate	1.345741	2.629253	8.6395	6.825815E-02			CCC (20)	
4,6-Dinitro-2-methylphenol	0.1631567	13.40917	9.679714	7.663445E-02			CCC (20)	
2,4-Dinitrophenol	0.2426865	11.5747	8.997834	4.513503E-02			CCC (20)	
2,4-Dinitrotoluene	0.4412515	6.36668	9.185	5.476163E-02			CCC (20)	
2,6-Dinitrotoluene	0.3341051	2.899851	8.71275	4.684148E-02			CCC (20)	
Di-n-octylphthalate	1.625252	19.42695	14.95388	2.252079E-02	0.9995969		CCC (20)	
1,4-Dioxane	0.5295315	3.094231	1.882	0.2712203			15	
1,2-Diphenylhydrazine	0.8600535	3.561029	9.73925	3.184954E-02			CCC (20)	
Bis(2-ethylhexyl)phthalate	0.906002	12.58977	14.07613	1.959701E-02			CCC (20)	
Fluoranthene	1.121686	3.546909	12.12612	3.525315E-02			CCC (20)	
Fluorene	1.291009	2.070254	9.530125	4.048329E-02			CCC (20)	
2-Fluorobiphenyl	1.304973	2.550458	8.05825	3.909822E-02			CCC (20)	
2-Fluorophenol	1.364318	3.490521	3.41725	0.1410522			CCC (20)	
Hexachlorobenzene	0.2127339	2.307244	10.303	2.203108E-02			CCC (20)	
Hexachlorobutadiene	0.1878684	1.960866	6.914	5.031228E-02			CCC (20)	
Hexachlorocyclopentadiene	0.3883047	7.132773	7.8515	3.398346E-02			CCC (20)	
Hexachloroethane	0.6620999	2.557715	5.59625	7.371592E-02			CCC (20)	
Indeno(1,2,3-cd)pyrene	1.128654	4.291234	17.562	4.681499E-02			CCC (20)	
Isophorone	0.6907435	2.967858	6.04575	7.629027E-02			CCC (20)	
1-Methylnaphthalene	0.5245967	2.755911	7.68475	2.290911E-02			CCC (20)	
2-Methylnaphthalene	0.5500879	3.617338	7.54875	4.032424E-02			CCC (20)	
2-Methylphenol	1.23516	3.448355	5.357625	2.996493E-02			CCC (20)	
3-Methylphenol	1.283491	3.818632	5.568375	8.424321E-02			CCC (20)	
4-Methylphenol	1.283491	3.818632	5.568375	8.424321E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2272005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/26/12 18:03 9/27/12 0:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.283491	3.818632	5.568375	8.424321E-02			15	
Naphthalene	1.045138	3.387294	6.650625	4.515734E-02			CCC (20)	
4-Nitroaniline	0.3726718	11.29913	9.632125	0.1008701			CCC (20)	
3-Nitroaniline	0.3814709	4.588481	8.87625	7.323247E-02			CCC (20)	
2-Nitroaniline	0.3519549	9.928968	8.35375	5.603041E-02			CCC (20)	
Nitrobenzene	0.3806992	3.059174	5.73	4.682199E-02			CCC (20)	
Nitrobenzene-d5	0.3758829	3.698424	5.709125	2.613411E-02			CCC (20)	
4-Nitrophenol	0.2753243	7.99335	9.122572	4.434523E-02			CCC (20)	
2-Nitrophenol	0.2015288	7.114383	6.162	5.347405E-02			CCC (20)	
N-Nitrosodimethylamine	0.6454241	3.308037	2.152625	0.1921502			CCC (20)	
N-Nitrosodiphenylamine	0.6060824	2.738114	9.712375	0.0476372			CCC (20)	
N-Nitroso-di-n-propylamine	0.9264115	3.847318	5.5585	8.229641E-02			CCC (20)	
Pentachlorophenol	0.1483397	7.142531	10.52857	3.303109E-02			CCC (20)	
Phenanthrene	1.036309	3.924071	10.68563	2.503092E-02			CCC (20)	
Phenol	1.847752	2.430352	4.569875	0.1188403			CCC (20)	
Phenol-d6	1.657278	3.092311	4.552625	9.935202E-02			CCC (20)	
Pyrene	1.419209	2.387319	12.3895	3.407473E-02			CCC (20)	
Pyridine	1.384519	8.014604	2.153875	0.2801215			CCC (20)	
Terphenyl-d14	0.7922755	2.429045	12.62238	2.535784E-02			CCC (20)	
1,2,4,5-Tetrachlorobenzene	0.3065383	4.049936	7.8175	0.0638879			CCC (20)	
2,3,4,6-Tetrachlorophenol	0.3342857	8.040752	9.335375	1.610042E-02			CCC (20)	
2,4,6-Tribromophenol	0.1150921	5.431977	9.8565	3.664511E-02			CCC (20)	
1,2,4-Trichlorobenzene	0.3215882	3.64138	6.581375	3.850313E-02			CCC (20)	
2,4,6-Trichlorophenol	0.4040255	6.82953	7.96475	4.460944E-02			CCC (20)	
2,4,5-Trichlorophenol	0.4126243	6.69412	8.009625	5.024523E-02			CCC (20)	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	58.60	1.10566	1.295903	0.9	17.2	20
Acenaphthylene	A	50.00	54.94	1.65984	1.823847	0.9	9.9	20
Anthracene	A	50.00	53.20	1.081887	1.151058	0.7	6.4	20
Benzo(a)anthracene	A	50.00	55.59	1.096178	1.218701	0.8	11.2	20
Benzo(a)pyrene	A	50.00	53.88	1.020199	1.099446	0.7	7.8	20
Benzo(b)fluoranthene	A	50.00	53.05	1.062636	1.127461	0.7	6.1	20
Benzo(g,h,i)perylene	A	50.00	54.39	0.9945587	1.081915	0.5	8.8	20
Benzoic acid	L	50.00	48.69	0.2585828	0.2811545	0.01	-2.6	20
Benzo(k)fluoranthene	A	50.00	53.54	1.300594	1.392682	0.7	7.1	20
4-Bromophenyl-phenylether	A	50.00	53.33	0.2362641	0.2519767	0.1	6.7	20
Butylbenzylphthalate	A	50.00	55.26	0.5337897	0.5899795	0.01	10.5	20
Carbazole	A	50.00	53.21	1.029924	1.095962	0.01	6.4	20
4-Chloro-3-methylphenol	A	50.00	54.72	0.3241539	0.3547434	0.2	9.4	20
4-Chloroaniline	A	50.00	52.81	0.4387603	0.4634271	0.01	5.6	20
Bis(2-chloroethoxy)methane	A	50.00	53.38	0.4361706	0.4656965	0.3	6.8	20
Bis(2-chloroethyl)ether	A	50.00	56.03	1.284228	1.439207	0.7	12.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	55.74	1.662963	1.853836	0.01	11.5	20
2-Chloronaphthalene	A	50.00	51.24	1.10867	1.136069	0.8	2.5	20
2-Chlorophenol	A	50.00	58.06	1.266695	1.470975	0.8	16.1	20
4-Chlorophenyl phenyl ether	A	50.00	51.29	0.6443488	0.6609697	0.4	2.6	20
Chrysene	A	50.00	56.09	1.072128	1.202645	0.7	12.2	20
Dibenz(a,h)anthracene	A	50.00	55.01	0.968097	1.065122	0.4	10.0	20
Dibenzofuran	A	50.00	53.47	1.531191	1.637537	0.8	6.9	20
Di-n-butylphthalate	A	50.00	51.42	1.117323	1.148948	0.01	2.8	20
2,4-Dichlorophenol	A	50.00	54.14	0.3172443	0.3435181	0.2	8.3	20
Diethylphthalate	A	50.00	50.34	1.246346	1.254886	0.01	0.7	20
2,4-Dimethylphenol	A	50.00	56.41	0.3802932	0.4290272	0.2	12.8	20
Dimethyl phthalate	A	50.00	49.52	1.25703	1.244959	0.01	-1.0	20
4,6-Dinitro-2-methylphenol	L	50.00	53.68	0.1376067	0.1681106	0.01	7.4	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	49.63	0.1586589	0.1883481	0.05	-0.7	20
2,4-Dinitrotoluene	A	50.00	52.00	0.4130027	0.4295454	0.2	4.0	20
2,6-Dinitrotoluene	A	50.00	53.10	0.3035821	0.3224102	0.2	6.2	20
Di-n-octylphthalate	A	50.00	55.98	1.122715	1.25702	0.01	12.0	20
1,2-Diphenylhydrazine	A	50.00	54.43	0.7871146	0.856912	0.01	8.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.88	0.6994262	0.7957128	0.01	13.8	20
Fluoranthene	A	50.00	53.36	1.164281	1.242525	0.6	6.7	20
Fluorene	A	50.00	51.97	1.322497	1.3745	0.9	3.9	20
Hexachlorobenzene	A	50.00	53.88	0.2557988	0.2756724	0.1	7.8	20
Hexachlorobutadiene	A	50.00	59.84	0.2021383	0.2419049	0.01	19.7	20
Hexachlorocyclopentadiene	A	50.00	55.42	0.3471121	0.3847598	0.05	10.8	20
Hexachloroethane	A	50.00	54.49	0.606057	0.6604722	0.3	9.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.73	1.18309	1.295127	0.5	9.5	20
Isophorone	A	50.00	52.71	0.694789	0.7324747	0.4	5.4	20
1-Methylnaphthalene	A	50.00	53.43	0.5852855	0.6253864	0.01	6.9	20
2-Methylnaphthalene	A	50.00	52.57	0.6105231	0.6419021	0.4	5.1	20
2-Methylphenol	A	50.00	58.16	1.15948	1.348604	0.7	16.3	20
3-Methylphenol/4-Methylphenol	A	50.00	58.18	1.219104	1.418582		16.4	20
Naphthalene	A	50.00	57.00	0.9922437	1.131112	0.7	14.0	20
4-Nitroaniline	A	50.00	53.79	0.3237232	0.348242	0.01	7.6	20
3-Nitroaniline	A	50.00	53.70	0.3275855	0.3518224	0.01	7.4	20
2-Nitroaniline	A	50.00	58.40	0.3368371	0.3934389	0.01	16.8	20
Nitrobenzene	A	50.00	52.69	0.4042427	0.4260277	0.2	5.4	20
4-Nitrophenol	A	50.00	54.75	0.263969	0.2890525	0.05	9.5	20
2-Nitrophenol	A	50.00	54.00	0.1877485	0.2027527	0.1	8.0	20
N-Nitrosodiphenylamine	A	50.00	53.61	0.6783385	0.7272844	0.01	7.2	20
N-Nitroso-di-n-propylamine	A	50.00	55.58	0.977041	1.086017	0.5	11.2	20
Phenanthrene	A	50.00	53.75	1.082295	1.163421	0.7	7.5	20
Phenol	A	50.00	56.31	1.701202	1.915796	0.8	12.6	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pyrene	A	50.00	54.56	1.182005	1.289905	0.6	9.1	20
2,4,6-Trichlorophenol	A	50.00	53.74	0.3893444	0.4184625	0.2	7.5	20
2,4,5-Trichlorophenol	A	50.00	58.16	0.3894227	0.4529662	0.2	16.3	20
2-Fluorobiphenyl	A	50.00	53.53	1.269863	1.359507	0.01	7.1	20
2-Fluorophenol	A	100.0	122.0	1.119802	1.365786	0.01	22.0	20 *
Nitrobenzene-d5	A	50.00	55.18	0.3989519	0.4402934	0.01	10.4	20
Phenol-d6	A	100.0	113.3	1.476584	1.673269	0.01	13.3	20
Terphenyl-d14	A	50.00	59.66	0.755263	0.9012434	0.01	19.3	20
2,4,6-Tribromophenol	A	100.0	109.1	0.1129158	0.1231592	0.01	9.1	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV2	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	52.13	1.761778	1.836985	0.01	4.3	20
Atrazine	A	50.00	47.98	0.2286444	0.2194247	0.01	-4.0	20
Benzaldehyde	A	50.00	52.76	0.9974323	1.052489	0.01	5.5	20
Benzidine	A	50.00	56.11	0.650866	0.7304139	0.01	12.2	20
1,1-Biphenyl	A	50.00	51.62	1.358172	1.402158	0.01	3.2	20
Caprolactam	A	50.00	55.44	0.1054972	0.1169682	0.01	10.9	20
3,3'-Dichlorobenzidine	A	50.00	54.50	0.3990372	0.4349478	0.01	9.0	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/12/12
Lab Sample ID:	2I25803-ICV3	Injection Time:	15:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	46.01	0.1662584	0.1529758	0.05	-8.0	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV1	Injection Time:	01:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzoic acid	A	50.00	51.76	0.2287324	0.2367745	0.01	3.5	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV2	Injection Time:	01:48

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	55.85	1.774174	1.981799	0.01	11.7	20
Atrazine	A	50.00	44.17	0.2021629	0.1785825	0.01	-11.7	20
Benzaldehyde	A	50.00	50.54	1.006348	1.017223	0.01	1.1	20
Benzidine	A	50.00	46.43	0.7586683	0.704443	0.01	-7.1	20
1,1-Biphenyl	A	50.00	50.27	1.416163	1.423736	0.01	0.5	20
Caprolactam	A	50.00	55.51	0.1025421	0.1138417	0.01	11.0	20
3,3'-Dichlorobenzidine	A	50.00	51.86	0.4083764	0.423608	0.01	3.7	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV3.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV3	Injection Time:	02:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	45.47	0.1483397	0.1349035	0.05	-9.1	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV4.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV4	Injection Time:	16:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	56.26	1.104581	1.242868	0.9	12.5	20
Acenaphthylene	A	50.00	53.51	1.84018	1.969492	0.9	7.0	20
Anthracene	A	50.00	51.66	1.041855	1.076543	0.7	3.3	20
Benzo(a)anthracene	A	50.00	53.28	1.194761	1.273035	0.8	6.6	20
Benzo(a)pyrene	A	50.00	50.96	1.056782	1.077075	0.7	1.9	20
Benzo(b)fluoranthene	A	50.00	56.17	1.160008	1.303179	0.7	12.3	20
Benzo(g,h,i)perylene	A	50.00	52.03	0.9556402	0.9945096	0.5	4.1	20
Benzo(k)fluoranthene	A	50.00	49.65	1.193894	1.185491	0.7	-0.7	20
4-Bromophenyl-phenylether	A	50.00	53.93	0.1876197	0.2023681	0.1	7.9	20
Butylbenzylphthalate	A	50.00	55.52	0.7023635	0.7798346	0.01	11.0	20
Carbazole	A	50.00	54.05	0.9972784	1.07804	0.01	8.1	20
4-Chloro-3-methylphenol	A	50.00	50.16	0.3117096	0.3126813	0.2	0.3	20
4-Chloroaniline	A	50.00	50.18	0.4447237	0.4463155	0.01	0.4	20
Bis(2-chloroethoxy)methane	A	50.00	49.29	0.4303265	0.4242085	0.3	-1.4	20
Bis(2-chloroethyl)ether	A	50.00	54.22	1.371713	1.487382	0.7	8.4	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.02	1.969533	2.049127	0.01	4.0	20
2-Chloronaphthalene	A	50.00	49.41	1.139168	1.125778	0.8	-1.2	20
2-Chlorophenol	A	50.00	54.73	1.420599	1.555036	0.8	9.5	20
4-Chlorophenyl phenyl ether	A	50.00	48.44	0.6478706	0.6277191	0.4	-3.1	20
Chrysene	A	50.00	52.44	1.116409	1.170883	0.7	4.9	20
Dibenz(a,h)anthracene	A	50.00	51.97	0.9571656	0.9948807	0.4	3.9	20
Dibenzofuran	A	50.00	50.55	1.590912	1.608445	0.8	1.1	20
Di-n-butylphthalate	A	50.00	52.37	1.345652	1.409351	0.01	4.7	20
2,4-Dichlorophenol	A	50.00	49.62	0.2770677	0.2749447	0.2	-0.8	20
Diethylphthalate	A	50.00	49.65	1.419629	1.409804	0.01	-0.7	20
2,4-Dimethylphenol	A	50.00	51.77	0.3753517	0.3886179	0.2	3.5	20
Dimethyl phthalate	A	50.00	47.66	1.345741	1.282834	0.01	-4.7	20
4,6-Dinitro-2-methylphenol	A	50.00	59.68	0.1631567	0.1947334	0.01	19.4	20
2,4-Dinitrophenol	A	50.00	53.63	0.2426865	0.2603236	0.05	7.3	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV4.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV4	Injection Time:	16:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrotoluene	A	50.00	49.47	0.4412515	0.4365715	0.2	-1.1	20
2,6-Dinitrotoluene	A	50.00	49.90	0.3341051	0.3334658	0.2	-0.2	20
Di-n-octylphthalate	L	50.00	49.69	1.625252	1.79607	0.01	-0.6	20
1,2-Diphenylhydrazine	A	50.00	51.48	0.8600535	0.8854269	0.01	3.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	55.61	0.906002	1.007676	0.01	11.2	20
Fluoranthene	A	50.00	52.06	1.121686	1.167857	0.6	4.1	20
Fluorene	A	50.00	49.61	1.291009	1.280906	0.9	-0.8	20
Hexachlorobenzene	A	50.00	53.41	0.2127339	0.2272269	0.1	6.8	20
Hexachlorobutadiene	A	50.00	55.24	0.1878684	0.20754	0.01	10.5	20
Hexachlorocyclopentadiene	A	50.00	53.25	0.3883047	0.4135571	0.05	6.5	20
Hexachloroethane	A	50.00	53.44	0.6620999	0.7077133	0.3	6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.10	1.128654	1.176076	0.5	4.2	20
Isophorone	A	50.00	48.65	0.6907435	0.6721568	0.4	-2.7	20
1-Methylnaphthalene	A	50.00	50.27	0.5245967	0.5274279	0.01	0.5	20
2-Methylnaphthalene	A	50.00	49.16	0.5500879	0.5408751	0.4	-1.7	20
2-Methylphenol	A	50.00	55.45	1.23516	1.369766	0.7	10.9	20
3-Methylphenol/4-Methylphenol	A	50.00	55.61	1.283491	1.427505		11.2	20
Naphthalene	A	50.00	54.34	1.045138	1.135827	0.7	8.7	20
4-Nitroaniline	A	50.00	51.07	0.3726718	0.3806114	0.01	2.1	20
3-Nitroaniline	A	50.00	51.03	0.3814709	0.3893424	0.01	2.1	20
2-Nitroaniline	A	50.00	54.43	0.3519549	0.3831608	0.01	8.9	20
Nitrobenzene	A	50.00	51.06	0.3806992	0.3887609	0.2	2.1	20
4-Nitrophenol	A	50.00	49.30	0.2753243	0.2714856	0.05	-1.4	20
2-Nitrophenol	A	50.00	52.35	0.2015288	0.2110155	0.1	4.7	20
N-Nitrosodiphenylamine	A	50.00	55.64	0.6060824	0.6744719	0.01	11.3	20
N-Nitroso-di-n-propylamine	A	50.00	54.68	0.9264115	1.013088	0.5	9.4	20
Phenanthrene	A	50.00	53.69	1.036309	1.112731	0.7	7.4	20
Phenol	A	50.00	53.92	1.847752	1.992622	0.8	7.8	20
Pyrene	A	50.00	50.17	1.419209	1.424044	0.6	0.3	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV4.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV4	Injection Time:	16:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4,6-Trichlorophenol	A	50.00	51.67	0.4040255	0.4174811	0.2	3.3	20
2,4,5-Trichlorophenol	A	50.00	51.87	0.4126243	0.4280298	0.2	3.7	20
2-Fluorobiphenyl	A	50.00	51.35	1.304973	1.340167	0.01	2.7	20
2-Fluorophenol	A	100.0	117.2	1.364318	1.598604	0.01	17.2	20
Nitrobenzene-d5	A	50.00	51.52	0.3758829	0.3873319	0.01	3.0	20
Phenol-d6	A	100.0	105.7	1.657278	1.751346	0.01	5.7	20
Terphenyl-d14	A	50.00	58.81	0.7922755	0.9318163	0.01	17.6	20
2,4,6-Tribromophenol	A	100.0	109.6	0.1150921	0.1261684	0.01	9.6	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	2J28514	Injection Date:	10/10/12
Lab Sample ID:	2J28514-CCV1	Injection Time:	18:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	47.95	1.104581	1.059377	0.9	-4.1	20
Acenaphthylene	A	50.00	47.87	1.84018	1.761797	0.9	-4.3	20
Anthracene	A	50.00	47.40	1.041855	0.9877508	0.7	-5.2	20
Benzo(a)anthracene	A	50.00	50.50	1.194761	1.206646	0.8	1.0	20
Benzo(a)pyrene	A	50.00	48.72	1.056782	1.029684	0.7	-2.6	20
Benzo(b)fluoranthene	A	50.00	47.69	1.160008	1.106406	0.7	-4.6	20
Benzo(g,h,i)perylene	A	50.00	48.00	0.9556402	0.9173467	0.5	-4.0	20
Benzoic acid	A	50.00	48.34	0.2287324	0.2211171	0.01	-3.3	20
Benzo(k)fluoranthene	A	50.00	47.44	1.193894	1.132722	0.7	-5.1	20
4-Bromophenyl-phenylether	A	50.00	53.21	0.1876197	0.1996724	0.1	6.4	20
Butylbenzylphthalate	A	50.00	51.19	0.7023635	0.7190495	0.01	2.4	20
Carbazole	A	50.00	47.49	0.9972784	0.9472566	0.01	-5.0	20
4-Chloro-3-methylphenol	A	50.00	53.51	0.3117096	0.3335778	0.2	7.0	20
4-Chloroaniline	A	50.00	52.00	0.4447237	0.4625074	0.01	4.0	20
Bis(2-chloroethoxy)methane	A	50.00	47.04	0.4303265	0.4048482	0.3	-5.9	20
Bis(2-chloroethyl)ether	A	50.00	51.01	1.371713	1.399398	0.7	2.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.64	1.969533	1.916152	0.01	-2.7	20
2-Chloronaphthalene	A	50.00	48.66	1.139168	1.108585	0.8	-2.7	20
2-Chlorophenol	A	50.00	53.60	1.420599	1.522875	0.8	7.2	20
4-Chlorophenyl phenyl ether	A	50.00	49.54	0.6478706	0.6419338	0.4	-0.9	20
Chrysene	A	50.00	48.35	1.116409	1.079531	0.7	-3.3	20
Dibenz(a,h)anthracene	A	50.00	48.74	0.9571656	0.9331134	0.4	-2.5	20
Dibenzofuran	A	50.00	50.60	1.590912	1.610158	0.8	1.2	20
Di-n-butylphthalate	A	50.00	53.22	1.345652	1.432308	0.01	6.4	20
2,4-Dichlorophenol	A	50.00	50.72	0.2770677	0.2810677	0.2	1.4	20
Diethylphthalate	A	50.00	52.76	1.419629	1.497867	0.01	5.5	20
2,4-Dimethylphenol	A	50.00	52.89	0.3753517	0.3970534	0.2	5.8	20
Dimethyl phthalate	A	50.00	51.16	1.345741	1.376957	0.01	2.3	20
4,6-Dinitro-2-methylphenol	A	50.00	51.16	0.1631567	0.1669279	0.01	2.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	2J28514	Injection Date:	10/10/12
Lab Sample ID:	2J28514-CCV1	Injection Time:	18:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	A	50.00	53.86	0.2426865	0.2614339	0.05	7.7	20
2,4-Dinitrotoluene	A	50.00	51.62	0.4412515	0.4555982	0.2	3.3	20
2,6-Dinitrotoluene	A	50.00	53.64	0.3341051	0.3584215	0.2	7.3	20
Di-n-octylphthalate	L	50.00	48.50	1.625252	1.750001	0.01	-3.0	20
1,2-Diphenylhydrazine	A	50.00	47.18	0.8600535	0.8114726	0.01	-5.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	52.98	0.906002	0.9600394	0.01	6.0	20
Fluoranthene	A	50.00	54.29	1.121686	1.217897	0.6	8.6	20
Fluorene	A	50.00	48.05	1.291009	1.240697	0.9	-3.9	20
Hexachlorobenzene	A	50.00	52.46	0.2127339	0.223201	0.1	4.9	20
Hexachlorobutadiene	A	50.00	55.35	0.1878684	0.2079737	0.01	10.7	20
Hexachlorocyclopentadiene	A	50.00	54.22	0.3883047	0.4211223	0.05	8.5	20
Hexachloroethane	A	50.00	54.53	0.6620999	0.7220526	0.3	9.1	20
Indeno(1,2,3-cd)pyrene	A	50.00	48.70	1.128654	1.099331	0.5	-2.6	20
Isophorone	A	50.00	49.98	0.6907435	0.6905359	0.4	-0.03	20
1-Methylnaphthalene	A	50.00	49.29	0.5245967	0.5171589	0.01	-1.4	20
2-Methylnaphthalene	A	50.00	49.66	0.5500879	0.5464106	0.4	-0.7	20
2-Methylphenol	A	50.00	54.07	1.23516	1.335644	0.7	8.1	20
3-Methylphenol/4-Methylphenol	A	50.00	51.61	1.283491	1.324814		3.2	20
Naphthalene	A	50.00	50.54	1.045138	1.056394	0.7	1.1	20
4-Nitroaniline	A	50.00	50.51	0.3726718	0.3764709	0.01	1.0	20
3-Nitroaniline	A	50.00	47.81	0.3814709	0.3647942	0.01	-4.4	20
2-Nitroaniline	A	50.00	53.39	0.3519549	0.3758182	0.01	6.8	20
Nitrobenzene	A	50.00	51.40	0.3806992	0.3913835	0.2	2.8	20
4-Nitrophenol	A	50.00	53.80	0.2753243	0.29628	0.05	7.6	20
2-Nitrophenol	A	50.00	51.61	0.2015288	0.2080145	0.1	3.2	20
N-Nitrosodiphenylamine	A	50.00	47.53	0.6060824	0.5760986	0.01	-4.9	20
N-Nitroso-di-n-propylamine	A	50.00	54.93	0.9264115	1.017747	0.5	9.9	20
Pentachlorophenol	A	50.00	51.79	0.1483397	0.1536452	0.05	3.6	20
Phenanthrene	A	50.00	48.42	1.036309	1.003486	0.7	-3.2	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	2J28514	Injection Date:	10/10/12
Lab Sample ID:	2J28514-CCV1	Injection Time:	18:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	50.21	1.847752	1.855617	0.8	0.4	20
Pyrene	A	50.00	50.14	1.419209	1.423173	0.6	0.3	20
2,4,6-Trichlorophenol	A	50.00	53.90	0.4040255	0.4355314	0.2	7.8	20
2,4,5-Trichlorophenol	A	50.00	52.63	0.4126243	0.4343313	0.2	5.3	20
2-Fluorobiphenyl	A	50.00	49.82	1.304973	1.300339	0.01	-0.4	20
2-Fluorophenol	A	100.0	102.1	1.364318	1.392589	0.01	2.1	20
Nitrobenzene-d5	A	50.00	52.29	0.3758829	0.3931054	0.01	4.6	20
Phenol-d6	A	100.0	99.73	1.657278	1.6528	0.01	-0.3	20
Terphenyl-d14	A	50.00	58.38	0.7922755	0.9251557	0.01	16.8	20
2,4,6-Tribromophenol	A	100.0	112.3	0.1150921	0.1292372	0.01	12.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/26/12 18:03
Sequence:	2J28514	Injection Date:	10/10/12
Lab Sample ID:	2J28514-CCV2	Injection Time:	18:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetophenone	A	50.00	56.24	1.774174	1.995758	0.01	12.5	20	
Atrazine	A	50.00	52.26	0.2021629	0.2112966	0.01	4.5	20	
Benzaldehyde	A	50.00	58.01	1.006348	1.167604	0.01	16.0	20	
Benzidine	A	50.00	66.00	0.7586683	1.001381	0.01	32.0	20	*
1,1-Biphenyl	A	50.00	47.87	1.416163	1.355751	0.01	-4.3	20	
Caprolactam	A	50.00	55.04	0.1025421	0.1128753	0.01	10.1	20	
3,3'-Dichlorobenzidine	A	50.00	56.93	0.4083764	0.4649468	0.01	13.9	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2J28913	Injection Date:	10/12/12
Lab Sample ID:	2J28913-CCV1	Injection Time:	15:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	45.13	1.10566	0.9980569	0.9	-9.7	20
Acenaphthylene	A	50.00	45.81	1.65984	1.52068	0.9	-8.4	20
Anthracene	A	50.00	48.73	1.081887	1.054322	0.7	-2.5	20
Benzo(a)anthracene	A	50.00	49.45	1.096178	1.084039	0.8	-1.1	20
Benzo(a)pyrene	A	50.00	48.94	1.020199	0.9984788	0.7	-2.1	20
Benzo(b)fluoranthene	A	50.00	48.71	1.062636	1.035284	0.7	-2.6	20
Benzo(g,h,i)perylene	A	50.00	48.71	0.9945587	0.9689502	0.5	-2.6	20
Benzoic acid	L	50.00	52.52	0.2585828	0.3052067	0.01	5.0	20
Benzo(k)fluoranthene	A	50.00	43.67	1.300594	1.135882	0.7	-12.7	20
4-Bromophenyl-phenylether	A	50.00	48.75	0.2362641	0.2303634	0.1	-2.5	20
Butylbenzylphthalate	A	50.00	51.26	0.5337897	0.5472357	0.01	2.5	20
Carbazole	A	50.00	48.64	1.029924	1.00182	0.01	-2.7	20
4-Chloro-3-methylphenol	A	50.00	50.83	0.3241539	0.3295155	0.2	1.7	20
4-Chloroaniline	A	50.00	49.72	0.4387603	0.4363243	0.01	-0.6	20
Bis(2-chloroethoxy)methane	A	50.00	47.79	0.4361706	0.4168605	0.3	-4.4	20
Bis(2-chloroethyl)ether	A	50.00	48.50	1.284228	1.245622	0.7	-3.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	49.21	1.662963	1.63682	0.01	-1.6	20
2-Chloronaphthalene	A	50.00	44.91	1.10867	0.9957831	0.8	-10.2	20
2-Chlorophenol	A	50.00	50.00	1.266695	1.266752	0.8	0.004	20
4-Chlorophenyl phenyl ether	A	50.00	44.67	0.6443488	0.5756372	0.4	-10.7	20
Chrysene	A	50.00	46.31	1.072128	0.9931014	0.7	-7.4	20
Dibenz(a,h)anthracene	A	50.00	51.00	0.968097	0.9875438	0.4	2.0	20
Dibenzofuran	A	50.00	45.88	1.531191	1.405172	0.8	-8.2	20
Di-n-butylphthalate	A	50.00	49.77	1.117323	1.112294	0.01	-0.5	20
2,4-Dichlorophenol	A	50.00	49.92	0.3172443	0.3167509	0.2	-0.2	20
Diethylphthalate	A	50.00	44.97	1.246346	1.120963	0.01	-10.1	20
2,4-Dimethylphenol	A	50.00	48.08	0.3802932	0.3656904	0.2	-3.8	20
Dimethyl phthalate	A	50.00	45.85	1.25703	1.152716	0.01	-8.3	20
4,6-Dinitro-2-methylphenol	L	50.00	54.88	0.1376067	0.1721613	0.01	9.8	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2J28913	Injection Date:	10/12/12
Lab Sample ID:	2J28913-CCV1	Injection Time:	15:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	56.71	0.1586589	0.2190773	0.05	13.4	20
2,4-Dinitrotoluene	A	50.00	49.37	0.4130027	0.4078099	0.2	-1.3	20
2,6-Dinitrotoluene	A	50.00	49.33	0.3035821	0.299538	0.2	-1.3	20
Di-n-octylphthalate	A	50.00	49.97	1.122715	1.121973	0.01	-0.07	20
1,2-Diphenylhydrazine	A	50.00	47.65	0.7871146	0.7501222	0.01	-4.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	52.45	0.6994262	0.7337126	0.01	4.9	20
Fluoranthene	A	50.00	49.57	1.164281	1.15434	0.6	-0.9	20
Fluorene	A	50.00	45.66	1.322497	1.207706	0.9	-8.7	20
Hexachlorobenzene	A	50.00	48.08	0.2557988	0.2459586	0.1	-3.8	20
Hexachlorobutadiene	A	50.00	44.67	0.2021383	0.1805888	0.01	-10.7	20
Hexachlorocyclopentadiene	A	50.00	51.34	0.3471121	0.3564487	0.05	2.7	20
Hexachloroethane	A	50.00	47.14	0.606057	0.5714311	0.3	-5.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	49.28	1.18309	1.165946	0.5	-1.4	20
Isophorone	A	50.00	47.41	0.694789	0.6588113	0.4	-5.2	20
1-Methylnaphthalene	A	50.00	47.76	0.5852855	0.5590325	0.01	-4.5	20
2-Methylnaphthalene	A	50.00	47.37	0.6105231	0.5784247	0.4	-5.3	20
2-Methylphenol	A	50.00	51.86	1.15948	1.202519	0.7	3.7	20
3-Methylphenol/4-Methylphenol	A	50.00	52.56	1.219104	1.281652		5.1	20
Naphthalene	A	50.00	47.30	0.9922437	0.9387085	0.7	-5.4	20
4-Nitroaniline	A	50.00	51.65	0.3237232	0.3344149	0.01	3.3	20
3-Nitroaniline	A	50.00	49.89	0.3275855	0.3268867	0.01	-0.2	20
2-Nitroaniline	A	50.00	47.77	0.3368371	0.3218406	0.01	-4.5	20
Nitrobenzene	A	50.00	47.68	0.4042427	0.3854587	0.2	-4.6	20
4-Nitrophenol	A	50.00	52.46	0.263969	0.2769359	0.05	4.9	20
2-Nitrophenol	A	50.00	54.25	0.1877485	0.2037195	0.1	8.5	20
N-Nitrosodiphenylamine	A	50.00	48.58	0.6783385	0.6590167	0.01	-2.8	20
N-Nitroso-di-n-propylamine	A	50.00	49.67	0.977041	0.9705719	0.5	-0.7	20
Pentachlorophenol	A	50.00	53.22	0.1662584	0.1769602	0.05	6.4	20
Phenanthrene	A	50.00	47.03	1.082295	1.018074	0.7	-5.9	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2J28913	Injection Date:	10/12/12
Lab Sample ID:	2J28913-CCV1	Injection Time:	15:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	49.84	1.701202	1.695895	0.8	-0.3	20
Pyrene	A	50.00	48.49	1.182005	1.14634	0.6	-3.0	20
2,4,6-Trichlorophenol	A	50.00	47.73	0.3893444	0.3716584	0.2	-4.5	20
2,4,5-Trichlorophenol	A	50.00	49.07	0.3894227	0.382171	0.2	-1.9	20
2-Fluorobiphenyl	A	50.00	46.04	1.269863	1.169431	0.01	-7.9	20
2-Fluorophenol	A	100.0	96.82	1.119802	1.084228	0.01	-3.2	20
Nitrobenzene-d5	A	50.00	48.28	0.3989519	0.3851966	0.01	-3.4	20
Phenol-d6	A	100.0	97.20	1.476584	1.435254	0.01	-2.8	20
Terphenyl-d14	A	50.00	54.65	0.755263	0.8254506	0.01	9.3	20
2,4,6-Tribromophenol	A	100.0	99.74	0.1129158	0.1126259	0.01	-0.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2J28913	Injection Date:	10/12/12
Lab Sample ID:	2J28913-CCV2	Injection Time:	15:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetophenone	A	50.00	49.59	1.761778	1.747382	0.01	-0.8	20	
Atrazine	A	50.00	49.72	0.2286444	0.227373	0.01	-0.6	20	
Benzaldehyde	A	50.00	55.61	0.9974323	1.10938	0.01	11.2	20	
Benzidine	A	50.00	63.71	0.650866	0.8293676	0.01	27.4	20	*
1,1-Biphenyl	A	50.00	44.65	1.358172	1.212869	0.01	-10.7	20	
Caprolactam	A	50.00	58.67	0.1054972	0.1237916	0.01	17.3	20	
3,3'-Dichlorobenzidine	A	50.00	56.60	0.3990372	0.4516908	0.01	13.2	20	

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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
GW0748	10/03/12 11:00	10/05/12 08:30	10/09/12 13:22	6.06	7.00	10/10/12 21:38	1.34	40.00	
GW0749	10/03/12 12:17	10/05/12 08:30	10/09/12 13:22	6.00	7.00	10/10/12 22:05	1.36	40.00	
GW0752	10/03/12 09:10	10/05/12 08:30	10/09/12 13:22	6.13	7.00	10/10/12 22:32	1.38	40.00	
GW0758	10/04/12 13:07	10/05/12 08:30	10/09/12 13:22	4.97	7.00	10/10/12 22:59	1.40	40.00	
GW0775	10/04/12 15:56	10/05/12 08:30	10/09/12 13:22	4.85	7.00	10/10/12 23:26	1.42	40.00	
GW0776	10/04/12 10:31	10/05/12 08:30	10/09/12 13:22	5.08	7.00	10/10/12 23:54	1.44	40.00	
GW0777	10/04/12 10:31	10/05/12 08:30	10/09/12 13:22	5.08	7.00	10/11/12 00:21	1.46	40.00	
GW0838	10/03/12 16:05	10/05/12 08:30	10/09/12 13:22	5.85	7.00	10/11/12 00:48	1.48	40.00	
GW0839	10/03/12 14:07	10/05/12 08:30	10/09/12 13:22	5.93	7.00	10/11/12 01:15	1.50	40.00	
GW0840	10/03/12 11:38	10/05/12 08:30	10/09/12 13:22	6.03	7.00	10/11/12 01:42	1.51	40.00	
GW0851	10/04/12 15:37	10/05/12 08:30	10/10/12 13:30	5.87	7.00	10/12/12 20:36	2.30	40.00	
GW0852	10/04/12 13:22	10/05/12 08:30	10/10/12 13:30	5.96	7.00	10/12/12 21:05	2.32	40.00	
GW0853	10/04/12 11:07	10/05/12 08:30	10/10/12 13:30	6.06	7.00	10/12/12 21:33	2.34	40.00	

Data for SW8270D (PAH) Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-05 [GW0752]	2J09004	1,000.00/1.00	1020	1.00	1.00		10/09/12

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	1005605.D
Sampled:	10/03/12 09:10	Prepared:	10/09/12 13:22	Analyzed:	10/10/12 20:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J09004 Sequence: 2J28509 Calibration: 2263001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0490	0.0980	0.196	U
208-96-8	Acenaphthylene		0.0490	0.0980	0.196	U
120-12-7	Anthracene		0.0490	0.0980	0.196	U
56-55-3	Benzo(a)anthracene		0.0490	0.0980	0.196	U
50-32-8	Benzo(a)pyrene		0.0490	0.0980	0.196	U
205-99-2	Benzo(b)fluoranthene		0.0490	0.0980	0.196	U
191-24-2	Benzo(g,h,i)perylene		0.0490	0.0980	0.196	U
207-08-9	Benzo(k)fluoranthene		0.0490	0.0980	0.196	U
218-01-9	Chrysene		0.0490	0.0980	0.196	U
53-70-3	Dibenz(a,h)anthracene		0.0490	0.0980	0.196	U
206-44-0	Fluoranthene		0.0490	0.0980	0.196	U
86-73-7	Fluorene		0.0490	0.0980	0.196	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0490	0.0980	0.196	U
90-12-0	1-Methylnaphthalene		0.0490	0.0980	0.196	U
91-57-6	2-Methylnaphthalene		0.0490	0.0980	0.196	U
91-20-3	Naphthalene		0.0490	0.0980	0.196	U
85-01-8	Phenanthrene		0.0980	0.196	0.392	U
129-00-0	Pyrene		0.0490	0.0980	0.196	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	32.44	66.2	34 - 167	
Terphenyl-d14	49.02	41.36	84.4	34 - 167	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28509	Instrument:	MS-BNA4
		Calibration:	2263001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J28509-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/10/12 16:22		
2-Fluorobiphenyl	5.000	88.5	80 - 120	8.889	8.889	0.0000	+/-0.500	
Terphenyl-d14	5.000	104	80 - 120	13.482	13.482	0.0000	+/-0.500	
Blank (2J09004-BLK2) ug/L				Lab File ID: J09004B1.D		Analyzed: 10/10/12 17:45		
2-Fluorobiphenyl	50.00	66.9	34 - 167	8.889	8.889	0.0000	+/-0.500	
Terphenyl-d14	50.00	75.7	34 - 167	13.482	13.482	0.0000	+/-0.500	
LCS Dup (2J09004-BSD2) ug/L				Lab File ID: J9004L2R.D		Analyzed: 10/10/12 18:40		
2-Fluorobiphenyl	50.00	71.1	34 - 167	8.889	8.889	0.0000	+/-0.500	
Terphenyl-d14	50.00	77.2	34 - 167	13.482	13.482	0.0000	+/-0.500	
GW0752 (1210056-05) ug/L				Lab File ID: 1005605.D		Analyzed: 10/10/12 20:57		
2-Fluorobiphenyl	49.02	66.2	34 - 167	8.888	8.889	-0.0010	+/-0.500	
Terphenyl-d14	49.02	84.4	34 - 167	13.482	13.482	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28603	Instrument:	MS-BNA4
		Calibration:	2263001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J28603-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/11/12 14:56		
2-Fluorobiphenyl	5.000	99.4	80 - 120	8.864	8.864	0.0000	+/-0.500	
Terphenyl-d14	5.000	117	80 - 120	13.458	13.458	0.0000	+/-0.500	
LCS (2J09004-BS2) ug/L				Lab File ID: J9004L1R.D		Analyzed: 10/11/12 15:26		
2-Fluorobiphenyl	50.00	68.2	34 - 167	8.865	8.864	0.0010	+/-0.500	
Terphenyl-d14	50.00	75.6	34 - 167	13.458	13.458	0.0000	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J09004	Laboratory ID:	2J09004-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.6815	68.1	41 - 132
Acenaphthylene	1.000	0.6890	68.9	43 - 140
Anthracene	1.000	0.7626	76.3	50 - 139
Benzo(a)anthracene	1.000	0.8531	85.3	58 - 141
Benzo(a)pyrene	1.000	0.7911	79.1	31 - 142
Benzo(b)fluoranthene	1.000	0.8379	83.8	42 - 156
Benzo(g,h,i)perylene	1.000	0.8248	82.5	12 - 171
Benzo(k)fluoranthene	1.000	0.7616	76.2	49 - 165
Chrysene	1.000	0.8665	86.6	51 - 155
Dibenz(a,h)anthracene	1.000	0.8345	83.5	28 - 153
Fluoranthene	1.000	0.7924	79.2	47 - 158
Fluorene	1.000	0.7238	72.4	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.8571	85.7	20 - 167
1-Methylnaphthalene	1.000	0.7642	76.4	35 - 131
2-Methylnaphthalene	1.000	0.6588	65.9	36 - 121
Naphthalene	1.000	0.6591	65.9	39 - 125
Phenanthrene	1.000	0.7826	78.3	46 - 144
Pyrene	1.000	0.7937	79.4	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.7067	70.7	3.63	30	41 - 132
Acenaphthylene	1.000	0.6884	68.8	0.0770	30	43 - 140
Anthracene	1.000	0.7661	76.6	0.449	30	50 - 139
Benzo(a)anthracene	1.000	0.8064	80.6	5.63	30	58 - 141
Benzo(a)pyrene	1.000	0.7920	79.2	0.107	30	31 - 142
Benzo(b)fluoranthene	1.000	0.7935	79.4	5.44	30	42 - 156
Benzo(g,h,i)perylene	1.000	0.8198	82.0	0.607	30	12 - 171
Benzo(k)fluoranthene	1.000	0.8084	80.8	5.96	30	49 - 165
Chrysene	1.000	0.7929	79.3	8.87	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J09004	Laboratory ID:	2J09004-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.
Dibenz(a,h)anthracene	1.000	0.8424	84.2	0.943	30	28 - 153
Fluoranthene	1.000	0.8252	82.5	4.05	30	47 - 158
Fluorene	1.000	0.7843	78.4	8.03	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.8639	86.4	0.789	30	20 - 167
1-Methylnaphthalene	1.000	0.7423	74.2	2.90	30	35 - 131
2-Methylnaphthalene	1.000	0.6674	66.7	1.30	30	36 - 121
Naphthalene	1.000	0.6346	63.5	3.79	30	39 - 125
Phenanthrene	1.000	0.7833	78.3	0.0856	30	46 - 144
Pyrene	1.000	0.8311	83.1	4.61	30	39 - 158

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J09004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0752	1210056-05	10/09/12 13:22	1,020.00	1.00
Blank	2J09004-BLK2	10/09/12 13:22	1,000.00	1.00
LCS	2J09004-BS2	10/09/12 13:22	1,000.00	1.00
LCS Dup	2J09004-BSD2	10/09/12 13:22	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2J09004-BLK2
File ID: J09004B1.D
Sampled:
Prepared:
Analyzed: 10/10/12 17:45
Solids:
Preparation: EXT_3510
Dilution:
Batch: 2J09004
Sequence: 2J28509
Calibration: 2263001
Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
85-01-8	Phenanthrene		0.100	0.200	0.400	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	33.44	66.9	34 - 167	
Terphenyl-d14	50.00	37.86	75.7	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J09004-BS2	File ID:	J9004L1R.D
Sampled:		Prepared:		Analyzed:	10/11/12 15:26
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J09004	Sequence:	2J28603	Calibration:	2263001	Instrument:	MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**0.6815**	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	**0.6890**	0.0500	0.100	0.200	
120-12-7	Anthracene	**0.7626**	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	**0.8531**	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	**0.7911**	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	**0.8379**	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	**0.8248**	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	**0.7616**	0.0500	0.100	0.200	
218-01-9	Chrysene	**0.8665**	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	**0.8345**	0.0500	0.100	0.200	
206-44-0	Fluoranthene	**0.7924**	0.0500	0.100	0.200	
86-73-7	Fluorene	**0.7238**	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	**0.8571**	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	**0.7642**	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	**0.6588**	0.0500	0.100	0.200	
91-20-3	Naphthalene	**0.6591**	0.0500	0.100	0.200	
85-01-8	Phenanthrene	**0.7826**	0.100	0.200	0.400	
129-00-0	Pyrene	**0.7937**	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.12	68.2	34 - 167	
Terphenyl-d14	50.00	37.81	75.6	34 - 167	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2J09004-BSD2	File ID:	J9004L2R.D
Sampled:		Prepared:		Analyzed:	10/10/12 18:40
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2J09004 Sequence: 2J28509 Calibration: 2263001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**0.7067**	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	**0.6884**	0.0500	0.100	0.200	
120-12-7	Anthracene	**0.7661**	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	**0.8064**	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	**0.7920**	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	**0.7935**	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	**0.8198**	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	**0.8084**	0.0500	0.100	0.200	
218-01-9	Chrysene	**0.7929**	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	**0.8424**	0.0500	0.100	0.200	
206-44-0	Fluoranthene	**0.8252**	0.0500	0.100	0.200	
86-73-7	Fluorene	**0.7843**	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	**0.8639**	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	**0.7423**	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	**0.6674**	0.0500	0.100	0.200	
91-20-3	Naphthalene	**0.6346**	0.0500	0.100	0.200	
85-01-8	Phenanthrene	**0.7833**	0.100	0.200	0.400	
129-00-0	Pyrene	**0.8311**	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	35.57	71.1	34 - 167	
Terphenyl-d14	50.00	38.62	77.2	34 - 167	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/17/12
Instrument ID:	MS-BNA4	Injection Time:	16:19
Sequence:	2I26212	Lab Sample ID:	2I26212-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.7	PASS
68	Less than 2% of 69	1.62	PASS
69	Less than 200% of 198	45.5	PASS
70	Less than 2% of 69	0.47	PASS
127	40 - 60% of 198	50.3	PASS
197	Less than 1% of 198	0.97	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.1	PASS
275	10 - 30% of 198	23.8	PASS
365	1 - 200% of 198	2.46	PASS
441	0.001 - 100% of 443	82	PASS
442	40 - 200% of 198	81	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/18/12
Instrument ID:	MS-BNA4	Injection Time:	09:45
Sequence:	2I26212	Lab Sample ID:	2I26212-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	56	PASS
68	Less than 2% of 69	1.57	PASS
69	Less than 200% of 198	46.5	PASS
70	Less than 2% of 69	0.546	PASS
127	40 - 60% of 198	51.2	PASS
197	Less than 1% of 198	0.947	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.77	PASS
275	10 - 30% of 198	22.8	PASS
365	1 - 200% of 198	2.51	PASS
441	0.001 - 100% of 443	86	PASS
442	40 - 200% of 198	75.1	PASS
443	17 - 23% of 442	18.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/10/12
Instrument ID:	MS-BNA4	Injection Time:	16:05
Sequence:	2J28509	Lab Sample ID:	2J28509-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.3	PASS
68	Less than 2% of 69	1.73	PASS
69	Less than 200% of 198	45.8	PASS
70	Less than 2% of 69	0.735	PASS
127	40 - 60% of 198	51.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	23.9	PASS
365	1 - 200% of 198	2.59	PASS
441	0.001 - 100% of 443	79.7	PASS
442	40 - 200% of 198	78	PASS
443	17 - 23% of 442	20.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/11/12
Instrument ID:	MS-BNA4	Injection Time:	14:39
Sequence:	2J28603	Lab Sample ID:	2J28603-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49.9	PASS
68	Less than 2% of 69	1.93	PASS
69	Less than 200% of 198	44.3	PASS
70	Less than 2% of 69	0.391	PASS
127	40 - 60% of 198	49.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.04	PASS
275	10 - 30% of 198	24.4	PASS
365	1 - 200% of 198	2.76	PASS
441	0.001 - 100% of 443	80.6	PASS
442	40 - 200% of 198	85.1	PASS
443	17 - 23% of 442	19.9	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I26212	Instrument:	MS-BNA4
Calibration:	2263001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2I26212-TUN1	SEQ-TUN1.D	09/17/12 16:19
Cal Standard	2I26212-CAL1	SEQCAL1.D	09/17/12 16:37
Cal Standard	2I26212-CAL2	SEQCAL2.D	09/17/12 17:04
Cal Standard	2I26212-CAL3	SEQCAL3.D	09/17/12 17:32
Cal Standard	2I26212-CAL4	SEQCAL4.D	09/17/12 18:00
Cal Standard	2I26212-CAL5	SEQCAL5.D	09/17/12 18:27
Cal Standard	2I26212-CAL7	SEQCAL7.D	09/17/12 19:22
Cal Standard	2I26212-CAL8	SEQCAL8.D	09/17/12 19:50
Initial Cal Check	2I26212-ICV1	SEQICV1.D	09/17/12 20:45
MS Tune	2I26212-TUN2	SEQ-TUN2.D	09/18/12 09:45
Initial Cal Check	2I26212-ICV3	SEQICV6.D	09/18/12 10:42

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28509	Instrument:	MS-BNA4
Calibration:	2263001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J28509-TUN1	SEQ-TUN1.D	10/10/12 16:05
Calibration Check	2J28509-CCV1	SEQ-CCV1.D	10/10/12 16:22
Blank	2J09004-BLK2	J09004B1.D	10/10/12 17:45
LCS Dup	2J09004-BSD2	J9004L2R.D	10/10/12 18:40
GW0752	1210056-05	1005605.D	10/10/12 20:57

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28603	Instrument:	MS-BNA4
Calibration:	2263001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J28603-TUN1	SEQ-TUN1.D	10/11/12 14:39
Calibration Check	2J28603-CCV1	SEQ-CCV1.D	10/11/12 14:56
LCS	2J09004-BS2	J9004L1R.D	10/11/12 15:26

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28509	Instrument:	MS-BNA4
		Calibration:	2263001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J28509-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/10/12 16:22			
Phenanthrene-d10	442313	11.508	597501	11.578	74	50 - 200	-0.0700	+/-0.50	
Perylene-d12	443450	17.306	641074	17.399	69	50 - 200	-0.0930	+/-0.50	
Blank (2J09004-BLK2)			Lab File ID: J09004B1.D			Analyzed: 10/10/12 17:45			
Phenanthrene-d10	354208	11.508	442313	11.508	80	50 - 200	0.0000	+/-0.50	
Perylene-d12	348932	17.301	443450	17.306	79	50 - 200	-0.0050	+/-0.50	
LCS Dup (2J09004-BSD2)			Lab File ID: J9004L2R.D			Analyzed: 10/10/12 18:40			
Phenanthrene-d10	391285	11.508	442313	11.508	88	50 - 200	0.0000	+/-0.50	
Perylene-d12	398466	17.306	443450	17.306	90	50 - 200	0.0000	+/-0.50	
GW0752 (1210056-05)			Lab File ID: 1005605.D			Analyzed: 10/10/12 20:57			
Phenanthrene-d10	256267	11.508	442313	11.508	58	50 - 200	0.0000	+/-0.50	
Perylene-d12	263041	17.305	443450	17.306	59	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28603	Instrument:	MS-BNA4
		Calibration:	2263001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J28603-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/11/12 14:56			
Phenanthrene-d10	477131	11.484	597501	11.578	80	50 - 200	-0.0940	+/-0.50	
Perylene-d12	589861	17.267	641074	17.399	92	50 - 200	-0.1320	+/-0.50	
LCS (2J09004-BS2)			Lab File ID: J9004L1R.D			Analyzed: 10/11/12 15:26			
Phenanthrene-d10	596822	11.484	477131	11.484	125	50 - 200	0.0000	+/-0.50	
Perylene-d12	674440	17.262	589861	17.267	114	50 - 200	-0.0050	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2263001	Instrument:	MS-BNA4	
Matrix:	Water	Calibration Dates:	9/17/12 16:37	9/17/12 19:50

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.6927786	0.2	0.6126957	0.5	0.6258664	1	0.638681	5	0.6449917	20	0.6214404
Acenaphthylene	0.1	0.9209964	0.2	0.9712513	0.5	0.9360704	1	0.9847835	5	0.9982604	20	0.9691621
Anthracene	0.1	1.080833	0.2	1.137773	0.5	1.060897	1	1.108192	5	1.133411	20	1.089009
Benzo(a)anthracene	0.1	1.147654	0.2	1.21844	0.5	1.163358	1	1.196642	5	1.279915	20	1.218567
Benzo(a)pyrene	0.1	1.016152	0.2	1.045756	0.5	1.004421	1	1.025226	5	1.124865	20	1.151281
Benzo(b)fluoranthene	0.1	0.9925904	0.2	1.081787	0.5	1.15512	1	1.047797	5	1.194273	20	1.255301
Benzo(g,h,i)perylene	0.1	1.005651	0.2	1.048362	0.5	0.9599417	1	1.036438	5	1.092406	20	1.096877
Benzo(k)fluoranthene	0.1	1.209957	0.2	1.30495	0.5	1.176611	1	1.263263	5	1.259525	20	1.240435
Chrysene	0.1	1.160914	0.2	1.266219	0.5	1.188827	1	1.199013	5	1.234528	20	1.140096
Dibenz(a,h)anthracene	0.1	0.8836443	0.2	0.9751725	0.5	0.9295415	1	0.9730884	5	1.061738	20	1.079306
Fluoranthene	0.1	1.24613	0.2	1.300024	0.5	1.300833	1	1.248329	5	1.306266	20	1.237675
Fluorene	0.1	0.7109788	0.2	0.7136178	0.5	0.6910092	1	0.6966409	5	0.7263747	20	0.7027301
2-Fluorobiphenyl	0.1	0.7192989	0.2	0.7000673	0.5	0.7167841	1	0.7369843	5	0.7397169	20	0.637973
Indeno(1,2,3-cd)pyrene	0.1	1.024552	0.2	1.112606	0.5	1.165679	1	1.13759	5	1.253755	20	1.303114
1-Methylnaphthalene	0.1	0.5970324	0.2	0.6010156	0.5	0.6008238	1	0.6221134	5	0.620404	20	0.4966688
2-Methylnaphthalene	0.1	0.6340829	0.2	0.624023	0.5	0.6509889	1	0.6777284	5	0.6747544	20	0.5353971
Naphthalene	0.1	1.000427	0.2	0.9830726	0.5	1.048343	1	1.022969	5	1.037231	20	0.787458
Phenanthrene	0.1	1.208755	0.2	1.181564	0.5	1.112727	1	1.085218	5	1.100442	20	1.058528
Pyrene	0.1	1.280776	0.2	1.276876	0.5	1.333824	1	1.288692	5	1.345555	20	1.271975
Terphenyl-d14	0.1	0.7861847	0.2	0.8653185	0.5	0.8794215	1	0.8632188	5	0.9345645	20	0.9044436
2,4,6-Tribromophenol	0.2	~~7.462092E-02~~	0.4	~~7.600913E-02~~	1	8.272993E-02	2	0.0893782	10	0.1090455	40	0.1180576

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2263001	Instrument:	MS-BNA4	
Matrix:	Water	Calibration Dates:	9/17/12 16:37	9/17/12 19:50

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	40	0.6697148										
Acenaphthylene	40	1.039517										
Anthracene	40	1.088085										
Benzo(a)anthracene	40	1.380118										
Benzo(a)pyrene	40	1.167657										
Benzo(b)fluoranthene	40	1.23136										
Benzo(g,h,i)perylene	40	1.091499										
Benzo(k)fluoranthene	40	1.264037										
Chrysene	40	1.268189										
Dibenz(a,h)anthracene	40	1.082279										
Fluoranthene	40	1.357324										
Fluorene	40	0.7324874										
2-Fluorobiphenyl	40	0.7284084										
Indeno(1,2,3-cd)pyrene	40	1.308153										
1-Methylnaphthalene	40	0.6049033										
2-Methylnaphthalene	40	0.651591										
Naphthalene	40	0.921208										
Phenanthrene	40	1.053512										
Pyrene	40	1.398519										
Terphenyl-d14	40	0.9938676										
2,4,6-Tribromophenol	80	0.1251137										

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2263001		Instrument:	MS-BNA4	
Matrix:	Water		Calibration Dates:	9/17/12 16:37	9/17/12 19:50

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.6437384	4.43344	9.826428	2.985676E-02			15	
Acenaphthylene	0.9742916	4.035626	9.595428	1.918522E-02			15	
Anthracene	1.099743	2.563612	11.661	2.252376E-02			15	
Benzo(a)anthracene	1.229242	6.441806	15.02286	1.745497E-02			15	
Benzo(a)pyrene	1.07648	6.419449	17.30657	3.859793E-02			15	
Benzo(b)fluoranthene	1.13689	8.675422	16.776	4.277508E-02			15	
Benzo(g,h,i)perylene	1.047311	4.920087	19.51071	5.631089E-02			15	
Benzo(k)fluoranthene	1.24554	3.34658	16.81471	4.942397E-02			15	
Chrysene	1.208255	4.137079	15.088	3.491361E-02			15	
Dibenz(a,h)anthracene	0.9978242	7.835988	19.12857	4.851823E-02			15	
Fluoranthene	1.285226	3.369817	13.06243	2.192161E-02			15	
Fluorene	0.7105484	2.132605	10.44243	2.405673E-02			15	
2-Fluorobiphenyl	0.711319	4.922771	8.959429	2.274919E-02			15	
Indeno(1,2,3-cd)pyrene	1.186493	8.935141	19.09971	5.454845E-02			15	
1-Methylnaphthalene	0.5918516	7.284457	8.607715	3.795704E-03			15	
2-Methylnaphthalene	0.6355094	7.594757	8.469143	2.944197E-02			15	
Naphthalene	0.9715298	9.419315	7.597143	3.351781E-02			15	
Phenanthrene	1.114392	5.345567	11.60814	1.843103E-02			15	
Pyrene	1.313745	3.59993	13.33786	2.306796E-02			15	
Terphenyl-d14	0.8895742	7.28489	13.55414	2.079779E-02			15	
2,4,6-Tribromophenol	0.104865	17.39735	10.766	2.069718E-02	0.9993091		0.995	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	2263001
Lab File ID:	SEQICV1.D	Calibration Date:	09/17/12 16:37
Sequence:	2I26212	Injection Date:	09/17/12
Lab Sample ID:	2I26212-ICV1	Injection Time:	20:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.716	0.6437384	0.7359407		14.3	20
Acenaphthylene	A	5.000	5.514	0.9742916	1.07452		10.3	20
Anthracene	A	5.000	5.152	1.099743	1.13324		3.0	20
Benzo(a)anthracene	A	5.000	5.029	1.229242	1.236324		0.6	20
Benzo(a)pyrene	A	5.000	5.314	1.07648	1.144191		6.3	20
Benzo(b)fluoranthene	A	5.000	5.390	1.13689	1.22551		7.8	20
Benzo(g,h,i)perylene	A	5.000	5.332	1.047311	1.116792		6.6	20
Benzo(k)fluoranthene	A	5.000	5.629	1.24554	1.402156		12.6	20
Chrysene	A	5.000	5.192	1.208255	1.254605		3.8	20
Dibenz(a,h)anthracene	A	5.000	5.517	0.9978242	1.101007		10.3	20
Fluoranthene	A	5.000	4.985	1.285226	1.281433		-0.3	20
Fluorene	A	5.000	5.078	0.7105484	0.7216262		1.6	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.592	1.186493	1.326924		11.8	20
1-Methylnaphthalene	A	5.000	5.077	0.5918516	0.6009911		1.5	20
2-Methylnaphthalene	A	5.000	5.055	0.6355094	0.6425195		1.1	20
Phenanthrene	A	5.000	5.038	1.114392	1.122845		0.8	20
Pyrene	A	5.000	5.072	1.313745	1.33268		1.4	20
2-Fluorobiphenyl	A	5.000	5.018	0.711319	0.7138889		0.4	20
Terphenyl-d14	A	5.000	5.109	0.8895742	0.908954		2.2	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	2263001
Lab File ID:	SEQICV6.D	Calibration Date:	09/17/12 16:37
Sequence:	2I26212	Injection Date:	09/18/12
Lab Sample ID:	2I26212-ICV3	Injection Time:	10:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Naphthalene	A	5.000	4.802	0.9715298	0.9330565		-4.0	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	2263001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/17/12 16:37
Sequence:	2J28509	Injection Date:	10/10/12
Lab Sample ID:	2J28509-CCV1	Injection Time:	16:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.560	0.6437384	0.5870684		-8.8	20
Acenaphthylene	A	5.000	4.559	0.9742916	0.8883989		-8.8	20
Anthracene	A	5.000	5.002	1.099743	1.100122		0.03	20
Benzo(a)anthracene	A	5.000	4.744	1.229242	1.166421		-5.1	20
Benzo(a)pyrene	A	5.000	5.046	1.07648	1.086384		0.9	20
Benzo(b)fluoranthene	A	5.000	4.946	1.13689	1.12464		-1.1	20
Benzo(g,h,i)perylene	A	5.000	4.963	1.047311	1.039497		-0.7	20
Benzo(k)fluoranthene	A	5.000	4.783	1.24554	1.191577		-4.3	20
Chrysene	A	5.000	4.597	1.208255	1.110793		-8.1	20
Dibenz(a,h)anthracene	A	5.000	5.251	0.9978242	1.047878		5.0	20
Fluoranthene	A	5.000	4.782	1.285226	1.229077		-4.4	20
Fluorene	A	5.000	4.714	0.7105484	0.6699744		-5.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.320	1.186493	1.262544		6.4	20
1-Methylnaphthalene	A	5.000	4.332	0.5918516	0.5127554		-13.4	20
2-Methylnaphthalene	A	5.000	4.327	0.6355094	0.5499816		-13.5	20
Naphthalene	A	5.000	4.206	0.9715298	0.817224		-15.9	20
Phenanthrene	A	5.000	4.663	1.114392	1.039349		-6.7	20
Pyrene	A	5.000	4.831	1.313745	1.269279		-3.4	20
2-Fluorobiphenyl	A	5.000	4.424	0.711319	0.6293209		-11.5	20
Terphenyl-d14	A	5.000	5.203	0.8895742	0.9256829		4.1	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	2263001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/17/12 16:37
Sequence:	2J28603	Injection Date:	10/11/12
Lab Sample ID:	2J28603-CCV1	Injection Time:	14:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.871	0.6437384	0.6271032		-2.6	20
Acenaphthylene	A	5.000	4.881	0.9742916	0.9511685		-2.4	20
Anthracene	A	5.000	5.000	1.099743	1.099732		-0.001	20
Benzo(a)anthracene	A	5.000	5.764	1.229242	1.417182		15.3	20
Benzo(a)pyrene	A	5.000	5.077	1.07648	1.093056		1.5	20
Benzo(b)fluoranthene	A	5.000	5.342	1.13689	1.214788		6.9	20
Benzo(g,h,i)perylene	A	5.000	5.072	1.047311	1.062393		1.4	20
Benzo(k)fluoranthene	A	5.000	4.730	1.24554	1.178409		-5.4	20
Chrysene	A	5.000	5.541	1.208255	1.338903		10.8	20
Dibenz(a,h)anthracene	A	5.000	5.266	0.9978242	1.05085		5.3	20
Fluoranthene	A	5.000	5.141	1.285226	1.321381		2.8	20
Fluorene	A	5.000	4.962	0.7105484	0.7051564		-0.8	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.313	1.186493	1.260755		6.3	20
1-Methylnaphthalene	A	5.000	5.021	0.5918516	0.5943726		0.4	20
2-Methylnaphthalene	A	5.000	5.040	0.6355094	0.6405821		0.8	20
Naphthalene	A	5.000	5.028	0.9715298	0.9769661		0.6	20
Phenanthrene	A	5.000	4.776	1.114392	1.064479		-4.5	20
Pyrene	A	5.000	5.197	1.313745	1.365607		3.9	20
2-Fluorobiphenyl	A	5.000	4.970	0.711319	0.7070427		-0.6	20
Terphenyl-d14	A	5.000	5.854	0.8895742	1.041547		17.1	20

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

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
GW0752	10/03/12 09:10	10/05/12 08:30	10/09/12 13:22	6.13	7.00	10/10/12 20:57	1.32	40.00	

Data for SW8011 Forms

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-05 [GW0752]	2J12013	35.00/35.00	36.6	35.0	1.00		10/12/12
1210056-07 [GW0758]	2J12013	35.00/35.00	37.5	35.0	1.00		10/12/12
1210056-09 [GW0775]	2J12013	35.00/35.00	36.6	35.0	1.00		10/12/12
1210056-11 [GW0776]	2J12013	35.00/35.00	36.3	35.0	1.00		10/12/12
1210056-13 [GW0777]	2J12013	35.00/35.00	36.7	35.0	1.00		10/12/12
1210056-15 [GW0838]	2J12013	35.00/35.00	36.9	35.0	1.00		10/12/12
1210056-17 [GW0839]	2J12013	35.00/35.00	36.8	35.0	1.00		10/12/12
1210056-19 [GW0840]	2J12013	35.00/35.00	36.3	35.0	1.00		10/12/12
1210056-21RE1 [GW0851]	2J12013	35.00/35.00	36.9	35.0	10.00		10/12/12
1210056-23 [GW0852]	2J12013	35.00/35.00	37.0	35.0	1.00		10/12/12
1210056-25 [GW0853]	2J12013	35.00/35.00	36.9	35.0	1.00		10/12/12

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J12015	35.00/35.00	35.8	35.0	1.00		10/12/12
1210056-03 [GW0749]	2J12015	35.00/35.00	36.6	35.0	1.00		10/12/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	031R0101.D
Sampled:	10/03/12 11:00	Prepared:	10/12/12 09:22	Analyzed:	10/13/12 02:49
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12015 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00977	0.0195	0.0293	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.944	1.784	91.8	30 - 130	
1,3-Dibromopropane [2C]	1.944	1.698	87.3	30 - 130	

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	032R0101.D
Sampled:	10/03/12 12:17	Prepared:	10/12/12 09:22	Analyzed:	10/13/12 03:10
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12015 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00956	0.0191	0.0287	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.900	1.713	90.2	30 - 130	
1,3-Dibromopropane [2C]	1.900	1.629	85.7	30 - 130	

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	006R0101.D
Sampled:	10/03/12 09:10	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 18:01
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00957	0.0191	0.0287	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.903	1.260	66.2	30 - 130	
1,3-Dibromopropane [2C]	1.903	1.236	64.9	30 - 130	

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	007R0101.D
Sampled:	10/04/12 13:07	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 18:22
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00932	0.0186	0.0280	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.854	1.738	93.7	30 - 130	
1,3-Dibromopropane [2C]	1.854	1.707	92.0	30 - 130	

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	008F0101.D
Sampled:	10/04/12 15:56	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 18:43
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00957	0.0191	0.0287	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.904	1.837	96.5	30 - 130	
1,3-Dibromopropane [2C]	1.904	1.823	95.8	30 - 130	

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	009F0101.D
Sampled:	10/04/12 10:31	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 19:04
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00964	0.0193	0.0289	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.917	1.811	94.5	30 - 130	
1,3-Dibromopropane [2C]	1.917	1.789	93.3	30 - 130	

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	010F0101.D
Sampled:	10/04/12 10:31	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 19:26
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.164	0.00953	0.0191	0.0286	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.895	1.771	93.5	30 - 130	
1,3-Dibromopropane [2C]	1.895	1.727	91.2	30 - 130	

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	011R0101.D
Sampled:	10/03/12 16:05	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 19:47
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.729	0.00948	0.0190	0.0284	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.885	1.517	80.5	30 - 130	
1,3-Dibromopropane [2C]	1.885	1.396	74.1	30 - 130	

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17	File ID:	012R0101.D
Sampled:	10/03/12 14:07	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 20:08
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0392	0.00951	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.890	1.351	71.5	30 - 130	
1,3-Dibromopropane [2C]	1.890	1.188	62.8	30 - 130	

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	013R0101.D
Sampled:	10/03/12 11:38	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 20:29
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00965	0.0193	0.0289	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.919	1.596	83.2	30 - 130	
1,3-Dibromopropane [2C]	1.919	1.526	79.6	30 - 130	

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21RE1	File ID:	003R0101.D
Sampled:	10/04/12 15:37	Prepared:	10/12/12 09:18	Analyzed:	10/18/12 14:03
Solids:		Preparation:	EDB	Dilution:	10

Batch: 2J12013 Sequence: 2J29707 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	5.95	0.0950	0.190	0.285	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.888	4.181	221	30 - 130	*
1,3-Dibromopropane [2C]	1.888	3.418	181	30 - 130	*

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	015R0101.D
Sampled:	10/04/12 13:22	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 21:11
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0602	0.00947	0.0189	0.0284	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.883	1.671	88.7	30 - 130	
1,3-Dibromopropane [2C]	1.883	1.568	83.2	30 - 130	

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	017R0101.D
Sampled:	10/04/12 11:07	Prepared:	10/12/12 09:18	Analyzed:	10/12/12 21:54
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00949	0.0190	0.0285	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.887	1.677	88.9	30 - 130	
1,3-Dibromopropane [2C]	1.887	1.607	85.2	30 - 130	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29304	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J29304-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 10/12/12 16:37		
1,3-Dibromopropane	1.989	102	80 - 120	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	104	80 - 120	6.073	6.073	0.0000	+/-0.030	
Blank (2J12013-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 10/12/12 16:57		
1,3-Dibromopropane	1.989	94.8	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	95.4	30 - 130	6.073	6.073	0.0000	+/-0.030	
LCS (2J12013-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 10/12/12 17:18		
1,3-Dibromopropane	1.989	92.7	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	93.1	30 - 130	6.076	6.073	0.0030	+/-0.030	
LCS Dup (2J12013-BSD1) ug/L				Lab File ID: 005F0101.D		Analyzed: 10/12/12 17:39		
1,3-Dibromopropane	1.989	95.6	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	95.7	30 - 130	6.073	6.073	0.0000	+/-0.030	
GW0752 (1210056-05) ug/L				Lab File ID: 006F0101.D		Analyzed: 10/12/12 18:01		
1,3-Dibromopropane	1.903	66.2	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.903	64.9	30 - 130	6.073	6.073	0.0000	+/-0.030	
GW0758 (1210056-07) ug/L				Lab File ID: 007F0101.D		Analyzed: 10/12/12 18:22		
1,3-Dibromopropane	1.854	93.7	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.854	92.0	30 - 130	6.073	6.073	0.0000	+/-0.030	
GW0775 (1210056-09) ug/L				Lab File ID: 008F0101.D		Analyzed: 10/12/12 18:43		
1,3-Dibromopropane	1.904	96.5	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.904	95.8	30 - 130	6.076	6.073	0.0030	+/-0.030	
GW0776 (1210056-11) ug/L				Lab File ID: 009F0101.D		Analyzed: 10/12/12 19:04		
1,3-Dibromopropane	1.917	94.5	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.917	93.3	30 - 130	6.076	6.073	0.0030	+/-0.030	
GW0777 (1210056-13) ug/L				Lab File ID: 010F0101.D		Analyzed: 10/12/12 19:26		
1,3-Dibromopropane	1.895	93.5	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.895	91.2	30 - 130	6.076	6.073	0.0030	+/-0.030	
GW0838 (1210056-15) ug/L				Lab File ID: 011F0101.D		Analyzed: 10/12/12 19:47		
1,3-Dibromopropane	1.885	80.5	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.885	74.1	30 - 130	6.073	6.073	0.0000	+/-0.030	
GW0839 (1210056-17) ug/L				Lab File ID: 012F0101.D		Analyzed: 10/12/12 20:08		
1,3-Dibromopropane	1.890	71.5	30 - 130	6.02	6.023	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.890	62.8	30 - 130	6.073	6.073	0.0000	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29304	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0840 (1210056-19) ug/L				Lab File ID: 013F0101.D		Analyzed: 10/12/12 20:29		
1,3-Dibromopropane	1.919	83.2	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.919	79.6	30 - 130	6.076	6.073	0.0030	+/-0.030	
GW0852 (1210056-23) ug/L				Lab File ID: 015F0101.D		Analyzed: 10/12/12 21:11		
1,3-Dibromopropane	1.883	88.7	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.883	83.2	30 - 130	6.076	6.073	0.0030	+/-0.030	
Calibration Check (2J29304-CCV2) ug/L				Lab File ID: 016F0101.D		Analyzed: 10/12/12 21:32		
1,3-Dibromopropane	1.989	90.1	80 - 120	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	86.2	80 - 120	6.076	6.073	0.0030	+/-0.030	
GW0853 (1210056-25) ug/L				Lab File ID: 017F0101.D		Analyzed: 10/12/12 21:54		
1,3-Dibromopropane	1.887	88.9	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.887	85.2	30 - 130	6.076	6.073	0.0030	+/-0.030	
Calibration Check (2J29304-CCV3) ug/L				Lab File ID: 027F0101.D		Analyzed: 10/13/12 01:24		
1,3-Dibromopropane	1.989	88.9	80 - 120	6.026	6.023	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	85.2	80 - 120	6.08	6.073	0.0070	+/-0.030	
Blank (2J12015-BLK1) ug/L				Lab File ID: 028F0101.D		Analyzed: 10/13/12 01:46		
1,3-Dibromopropane	1.989	95.9	30 - 130	6.026	6.023	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	91.1	30 - 130	6.08	6.073	0.0070	+/-0.030	
LCS (2J12015-BS1) ug/L				Lab File ID: 029F0101.D		Analyzed: 10/13/12 02:07		
1,3-Dibromopropane	1.989	87.8	30 - 130	6.026	6.023	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	83.6	30 - 130	6.08	6.073	0.0070	+/-0.030	
LCS Dup (2J12015-BSD1) ug/L				Lab File ID: 030F0101.D		Analyzed: 10/13/12 02:28		
1,3-Dibromopropane	1.989	89.8	30 - 130	6.026	6.023	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	85.9	30 - 130	6.08	6.073	0.0070	+/-0.030	
GW0748 (1210056-01) ug/L				Lab File ID: 031F0101.D		Analyzed: 10/13/12 02:49		
1,3-Dibromopropane	1.944	91.8	30 - 130	6.026	6.023	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.944	87.3	30 - 130	6.08	6.073	0.0070	+/-0.030	
GW0749 (1210056-03) ug/L				Lab File ID: 032F0101.D		Analyzed: 10/13/12 03:10		
1,3-Dibromopropane	1.900	90.2	30 - 130	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.900	85.7	30 - 130	6.08	6.073	0.0070	+/-0.030	
Calibration Check (2J29304-CCV4) ug/L				Lab File ID: 041F0101.D		Analyzed: 10/13/12 06:19		
1,3-Dibromopropane	1.989	103	80 - 120	6.023	6.023	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	97.0	80 - 120	6.076	6.073	0.0030	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29707	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J29707-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 10/18/12 13:41		
1,3-Dibromopropane	1.989	98.1	80 - 120	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	91.8	80 - 120	6.063	6.063	0.0000	+/-0.030	
GW0851 (1210056-21RE1) ug/L				Lab File ID: 003F0101.D		Analyzed: 10/18/12 14:03		
1,3-Dibromopropane	1.888	221	30 - 130	6.01	6.01	0.0000	+/-0.030	*
1,3-Dibromopropane [2C]	1.888	181	30 - 130	6.066	6.063	0.0030	+/-0.030	*
Calibration Check (2J29707-CCV2) ug/L				Lab File ID: 004F0101.D		Analyzed: 10/18/12 14:24		
1,3-Dibromopropane	1.989	94.7	80 - 120	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	90.8	80 - 120	6.063	6.063	0.0000	+/-0.030	

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J12013	Laboratory ID:	2J12013-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	0.4707	94.1	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5232	105	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	0.5002	100	6.08	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5236	105	0.0764	20	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J12015	Laboratory ID:	2J12015-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	0.4721	94.4	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4869	97.4	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	0.4605	92.1	2.49	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4771	95.4	2.03	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J12013 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0752	1210056-05	10/12/12 09:18	36.57	35.00
GW0758	1210056-07	10/12/12 09:18	37.54	35.00
GW0775	1210056-09	10/12/12 09:18	36.56	35.00
GW0776	1210056-11	10/12/12 09:18	36.31	35.00
GW0777	1210056-13	10/12/12 09:18	36.74	35.00
GW0838	1210056-15	10/12/12 09:18	36.93	35.00
GW0839	1210056-17	10/12/12 09:18	36.82	35.00
GW0840	1210056-19	10/12/12 09:18	36.28	35.00
GW0851	1210056-21RE1	10/12/12 09:18	36.86	35.00
GW0852	1210056-23	10/12/12 09:18	36.96	35.00
GW0853	1210056-25	10/12/12 09:18	36.89	35.00
Blank	2J12013-BLK1	10/12/12 09:18	35.00	35.00
LCS	2J12013-BS1	10/12/12 09:18	35.00	35.00
LCS Dup	2J12013-BSD1	10/12/12 09:18	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J12015 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/12/12 09:22	35.81	35.00
GW0749	1210056-03	10/12/12 09:22	36.63	35.00
Blank	2J12015-BLK1	10/12/12 09:22	35.00	35.00
LCS	2J12015-BS1	10/12/12 09:22	35.00	35.00
LCS Dup	2J12015-BSD1	10/12/12 09:22	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2J12013-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	10/12/12 09:18	Analyzed:	10/12/12 16:57
Solids:		Preparation:	EDB	Dilution:	

Batch: 2J12013 Sequence: 2J29304 Calibration: 2292002 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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.886	94.8	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.898	95.4	30 - 130	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12015-BLK1	File ID:	028R0101.D
Sampled:		Prepared:	10/12/12 09:22	Analyzed:	10/13/12 01:46
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12015	Sequence:	2J29304	Calibration:	2292002	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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.908	95.9	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.813	91.1	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12013-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	10/12/12 17:18
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12013	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4707**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.844	92.7	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12013-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	10/12/12 17:18
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12013	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.5232**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.851	93.1	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12013-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	10/12/12 17:39
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12013	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5002**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.902	95.6	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12013-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	10/12/12 17:39
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12013	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.5236**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.903	95.7	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12015-BS1	File ID:	029F0101.D
Sampled:		Prepared:		Analyzed:	10/13/12 02:07
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12015	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4721**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.747	87.8	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12015-BS1	File ID:	029R0101.D
Sampled:		Prepared:		Analyzed:	10/13/12 02:07
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12015	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4869**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.663	83.6	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12015-BSD1	File ID:	030F0101.D
Sampled:		Prepared:		Analyzed:	10/13/12 02:28
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12015	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4605**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.786	89.8	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J12015-BSD1	File ID:	030R0101.D
Sampled:		Prepared:		Analyzed:	10/13/12 02:28
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J12015	Sequence:	2J29304	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4771**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.708	85.9	30 - 130	

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004R0101.D	10/11/12 16:10
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004F0101.D	10/11/12 16:10
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005R0101.D	10/11/12 16:31
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005F0101.D	10/11/12 16:31
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006R0101.D	10/11/12 16:53
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006F0101.D	10/11/12 16:53
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007R0101.D	10/11/12 17:14
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007F0101.D	10/11/12 17:14
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008R0101.D	10/11/12 17:35
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008F0101.D	10/11/12 17:35
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009R0101.D	10/11/12 17:56
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009F0101.D	10/11/12 17:56

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29206-CAL1	004R0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL1	004F0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL2	005R0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL2	005F0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL3	006R0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL3	006F0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL4	007R0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL4	007F0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL5	008R0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL5	008F0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL6	009R0101.D	10/11/12 17:56
Cal Standard	2J29206-CAL6	009F0101.D	10/11/12 17:56
Initial Cal Check	2J29206-ICV1	010R0101.D	10/11/12 18:18
Initial Cal Check	2J29206-ICV1	010F0101.D	10/11/12 18:18

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29304	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J29304-CCV1	002F0101.D	10/12/12 16:37
Calibration Check	2J29304-CCV1	002R0101.D	10/12/12 16:37
Blank	2J12013-BLK1	003R0101.D	10/12/12 16:57
Blank	2J12013-BLK1	003F0101.D	10/12/12 16:57
LCS	2J12013-BS1	004R0101.D	10/12/12 17:18
LCS	2J12013-BS1	004F0101.D	10/12/12 17:18
LCS Dup	2J12013-BSD1	005F0101.D	10/12/12 17:39
LCS Dup	2J12013-BSD1	005R0101.D	10/12/12 17:39
GW0752	1210056-05	006F0101.D	10/12/12 18:01
GW0752	1210056-05	006R0101.D	10/12/12 18:01
GW0758	1210056-07	007F0101.D	10/12/12 18:22
GW0758	1210056-07	007R0101.D	10/12/12 18:22
GW0775	1210056-09	008F0101.D	10/12/12 18:43
GW0775	1210056-09	008R0101.D	10/12/12 18:43
GW0776	1210056-11	009F0101.D	10/12/12 19:04
GW0776	1210056-11	009R0101.D	10/12/12 19:04
GW0777	1210056-13	010F0101.D	10/12/12 19:26
GW0777	1210056-13	010R0101.D	10/12/12 19:26
GW0838	1210056-15	011F0101.D	10/12/12 19:47
GW0838	1210056-15	011R0101.D	10/12/12 19:47
GW0839	1210056-17	012F0101.D	10/12/12 20:08
GW0839	1210056-17	012R0101.D	10/12/12 20:08
GW0840	1210056-19	013F0101.D	10/12/12 20:29
GW0840	1210056-19	013R0101.D	10/12/12 20:29
GW0852	1210056-23	015R0101.D	10/12/12 21:11
GW0852	1210056-23	015F0101.D	10/12/12 21:11
Calibration Check	2J29304-CCV2	016F0101.D	10/12/12 21:32
Calibration Check	2J29304-CCV2	016R0101.D	10/12/12 21:32
GW0853	1210056-25	017F0101.D	10/12/12 21:54
GW0853	1210056-25	017R0101.D	10/12/12 21:54
Calibration Check	2J29304-CCV3	027R0101.D	10/13/12 01:24
Calibration Check	2J29304-CCV3	027F0101.D	10/13/12 01:24

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29304	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	2J12015-BLK1	028F0101.D	10/13/12 01:46
Blank	2J12015-BLK1	028R0101.D	10/13/12 01:46
LCS	2J12015-BS1	029F0101.D	10/13/12 02:07
LCS	2J12015-BS1	029R0101.D	10/13/12 02:07
LCS Dup	2J12015-BSD1	030F0101.D	10/13/12 02:28
LCS Dup	2J12015-BSD1	030R0101.D	10/13/12 02:28
GW0748	1210056-01	031R0101.D	10/13/12 02:49
GW0748	1210056-01	031F0101.D	10/13/12 02:49
GW0749	1210056-03	032F0101.D	10/13/12 03:10
GW0749	1210056-03	032R0101.D	10/13/12 03:10
Calibration Check	2J29304-CCV4	041R0101.D	10/13/12 06:19
Calibration Check	2J29304-CCV4	041F0101.D	10/13/12 06:19

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29707	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J29707-CCV1	002R0101.D	10/18/12 13:41
Calibration Check	2J29707-CCV1	002F0101.D	10/18/12 13:41
GW0851	1210056-21RE1	003R0101.D	10/18/12 14:03
GW0851	1210056-21RE1	003F0101.D	10/18/12 14:03
Calibration Check	2J29707-CCV2	004R0101.D	10/18/12 14:24
Calibration Check	2J29707-CCV2	004F0101.D	10/18/12 14:24

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2292002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56

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	0.02	10650	0.05	10860	0.1	10660	0.2	9475	0.5	9386	1	8356
1,2-Dibromoethane [2C]	0.02	31550	0.05	34320	0.1	34660	0.2	32510	0.5	31110	1	30406
1,2-Dibromo-3-chloropropane	0.02	22600	0.05	20080	0.1	19070	0.2	16850	0.5	15220	1	13344
1,2-Dibromo-3-chloropropane [2C]	0.02	68550	0.05	63880	0.1	59900	0.2	56300	0.5	56304	1	53927
1,3-Dibromopropane	0.09944	6244.972	0.1989	~~2885.872~~	0.4972	6391.794	0.9944	5737.128	1.989	5078.431	3.978	4436.4
1,3-Dibromopropane [2C]	0.09944	26739.74	0.1989	~~12227.25~~	0.4972	24656.07	0.9944	22013.27	1.989	19895.93	3.978	17722.72

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2292002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	9897.833	9.991906	2.694	0.0551041			20	
1,2-Dibromoethane [2C]	32426	5.370791	2.66	1.685277E-02			20	
1,2-Dibromo-3-chloropropane	17860.67	18.94447	8.78	1.335599E-02			20	
1,2-Dibromo-3-chloropropane [2C]	59810.17	9.224062	9.119333	2.295245E-02			20	
1,3-Dibromopropane	5577.745	14.68939	6.0154	2.089261E-02			20	
1,3-Dibromopropane [2C]	22205.55	16.242	6.0692	2.971043E-02			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	010F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29206	Injection Date:	10/11/12
Lab Sample ID:	2J29206-ICV1	Injection Time:	18:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4839	9897.833	9580		-3.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.4886	32426	31684		-2.3	20
1,3-Dibromopropane	A	1.989	1.779	5577.745	4989.945		-10.5	20
1,3-Dibromopropane [2C]	A	1.989	1.741	22205.55	19441.43		-12.4	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29304	Injection Date:	10/12/12
Lab Sample ID:	2J29304-CCV1	Injection Time:	16:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5174	9897.833	10242		3.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.5537	32426	35910		10.7	20
1,3-Dibromopropane	A	1.989	2.034	5577.745	5705.882		2.3	20
1,3-Dibromopropane [2C]	A	1.989	2.069	22205.55	23097.03		4.0	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	016F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29304	Injection Date:	10/12/12
Lab Sample ID:	2J29304-CCV2	Injection Time:	21:32

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4528	9897.833	8964		-9.4	20
1,2-Dibromoethane [2C]	A	0.5000	0.4666	32426	30258		-6.7	20
1,3-Dibromopropane	A	1.989	1.793	5577.745	5029.16		-9.8	20
1,3-Dibromopropane [2C]	A	1.989	1.714	22205.55	19137.76		-13.8	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	027F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29304	Injection Date:	10/13/12
Lab Sample ID:	2J29304-CCV3	Injection Time:	01:24

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4276	9897.833	8464		-14.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4491	32426	29124		-10.2	20
1,3-Dibromopropane	A	1.989	1.769	5577.745	4961.287		-11.1	20
1,3-Dibromopropane [2C]	A	1.989	1.694	22205.55	18916.54		-14.8	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	041F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29304	Injection Date:	10/13/12
Lab Sample ID:	2J29304-CCV4	Injection Time:	06:19

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5251	9897.833	10394		5.0	20
1,2-Dibromoethane [2C]	A	0.5000	0.5439	32426	35274		8.8	20
1,3-Dibromopropane	A	1.989	2.040	5577.745	5721.971		2.6	20
1,3-Dibromopropane [2C]	A	1.989	1.929	22205.55	21537.96		-3.0	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29707	Injection Date:	10/18/12
Lab Sample ID:	2J29707-CCV1	Injection Time:	13:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5063	9897.833	10022		1.3	20
1,2-Dibromoethane [2C]	A	0.5000	0.5184	32426	33622		3.7	20
1,3-Dibromopropane	A	1.989	1.952	5577.745	5472.599		-1.9	20
1,3-Dibromopropane [2C]	A	1.989	1.825	22205.55	20371.54		-8.3	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	004F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29707	Injection Date:	10/18/12
Lab Sample ID:	2J29707-CCV2	Injection Time:	14:24

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4797	9897.833	9496		-4.1	20
1,2-Dibromoethane [2C]	A	0.5000	0.5128	32426	33256		2.6	20
1,3-Dibromopropane	A	1.989	1.883	5577.745	5281.549		-5.3	20
1,3-Dibromopropane [2C]	A	1.989	1.807	22205.55	20175.97		-9.1	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0777

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210056-13

Date(s) Analyzed: 10/12/2012 10/12/2012

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	2.70	2.66	2.72	0.164	
	2	2.67	2.63	2.69	0.156	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0838

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210056-15 Date(s) Analyzed: 10/12/2012 10/12/2012

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	2.70	2.66	2.72	0.632	
	2	2.67	2.63	2.69	0.729	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0839

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210056-17

Date(s) Analyzed: 10/12/2012 10/12/2012

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	2.70	2.66	2.72	0.0307	
	2	2.66	2.63	2.69	0.0392	24

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0851

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210056-21RE1 Date(s) Analyzed: 10/18/2012 10/18/2012

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	2.69	2.66	2.72	5.48	
	2	2.66	2.63	2.69	5.95	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0852

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210056-23 Date(s) Analyzed: 10/12/2012 10/12/2012

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	2.70	2.66	2.72	0.0565	
	2	2.67	2.63	2.69	0.0602	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J12013-BS1

Date(s) Analyzed: 10/12/2012 10/12/2012

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	2.70	2.66	2.72	0.4707	
	2	2.67	2.63	2.69	0.5232	11

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J12013-BSD1 Date(s) Analyzed: 10/12/2012 10/12/2012

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	2.70	2.66	2.72	0.5002	
	2	2.66	2.63	2.69	0.5236	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J12015-BS1 Date(s) Analyzed: 10/13/2012 10/13/2012

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	2.70	2.66	2.72	0.4721	
	2	2.67	2.63	2.69	0.4869	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J12015-BSD1 Date(s) Analyzed: 10/13/2012 10/13/2012

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	2.70	2.66	2.72	0.4605	
	2	2.67	2.63	2.69	0.4771	4

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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
GW0748	10/03/12 11:00	10/05/12 08:30	10/12/12 09:22	N/A	14.00	10/13/12 02:49	9.62	14.00	
GW0749	10/03/12 12:17	10/05/12 08:30	10/12/12 09:22	N/A	14.00	10/13/12 03:10	9.58	14.00	
GW0752	10/03/12 09:10	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 18:01	9.33	14.00	
GW0758	10/04/12 13:07	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 18:22	8.18	14.00	
GW0775	10/04/12 15:56	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 18:43	8.07	14.00	
GW0776	10/04/12 10:31	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 19:04	8.31	14.00	
GW0777	10/04/12 10:31	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 19:26	8.33	14.00	
GW0838	10/03/12 16:05	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 19:47	9.11	14.00	
GW0839	10/03/12 14:07	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 20:08	9.21	14.00	
GW0840	10/03/12 11:38	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 20:29	9.33	14.00	
GW0851	10/04/12 15:37	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/18/12 14:03	13.89	14.00	
GW0852	10/04/12 13:22	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 21:11	8.28	14.00	
GW0853	10/04/12 11:07	10/05/12 08:30	10/12/12 09:18	N/A	14.00	10/12/12 21:54	8.41	14.00	

SW8015B (DRO)
Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J10011	1,000.00/1.00	500	0.500	1.00		10/10/12
1210056-03 [GW0749]	2J10011	1,000.00/1.00	1040	1.00	1.00		10/10/12
1210056-05 [GW0752]	2J10011	1,000.00/1.00	1020	1.00	1.00		10/10/12
1210056-07 [GW0758]	2J10011	1,000.00/1.00	1000	1.00	1.00		10/10/12
1210056-09 [GW0775]	2J10011	1,000.00/1.00	1020	1.00	1.00		10/10/12
1210056-11 [GW0776]	2J10011	1,000.00/1.00	1020	1.00	1.00		10/10/12
1210056-13 [GW0777]	2J10011	1,000.00/1.00	1040	1.00	1.00		10/10/12
1210056-15 [GW0838]	2J10011	1,000.00/1.00	1020	1.00	1.00		10/10/12
1210056-17RE1 [GW0839]	2J10011	1,000.00/1.00	1000	1.00	5.00		10/10/12
1210056-19 [GW0840]	2J10011	1,000.00/1.00	1000	1.00	1.00		10/10/12
1210056-21 [GW0851]	2J10011	1,000.00/1.00	1000	1.00	1.00		10/10/12
1210056-23 [GW0852]	2J10011	1,000.00/1.00	1060	1.00	1.00		10/10/12
1210056-25 [GW0853]	2J10011	1,000.00/1.00	1000	1.00	1.00		10/10/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	007F0701.D
Sampled:	10/03/12 11:00	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 17:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01521	76.0	30 - 140	

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	008F0801.D
Sampled:	10/03/12 12:17	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 18:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.192	0.385	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01320	68.6	30 - 140	

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	009F0901.D
Sampled:	10/03/12 09:10	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 19:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01002	51.1	30 - 140	

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	010F1001.D
Sampled:	10/04/12 13:07	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 19:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01456	72.8	30 - 140	

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	011F1101.D
Sampled:	10/04/12 15:56	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 20:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01349	68.8	30 - 140	

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	012F1201.D
Sampled:	10/04/12 10:31	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 20:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.009986	50.9	30 - 140	

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	013F1301.D
Sampled:	10/04/12 10:31	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 21:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.192	0.385	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01019	53.0	30 - 140	

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	014F1401.D
Sampled:	10/03/12 16:05	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 21:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**2.05**	0.0980	0.196	0.392	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.008948	45.6	30 - 140	

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17RE1	File ID:	004F0401.D
Sampled:	10/03/12 14:07	Prepared:	10/10/12 14:00	Analyzed:	10/17/12 16:56
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 2J10011 Sequence: 2J29214 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**6.54**	0.500	1.00	2.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01254	62.7	30 - 140	

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	016F1601.D
Sampled:	10/03/12 11:38	Prepared:	10/10/12 14:00	Analyzed:	10/12/12 22:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01220	61.0	30 - 140	

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21	File ID:	018F1801.D
Sampled:	10/04/12 15:37	Prepared:	10/10/12 14:00	Analyzed:	10/13/12 00:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**4.34**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01155	57.8	30 - 140	

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	019F1901.D
Sampled:	10/04/12 13:22	Prepared:	10/10/12 14:00	Analyzed:	10/13/12 00:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.114**	0.0943	0.189	0.377	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01240	65.7	30 - 140	

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	020F2001.D
Sampled:	10/04/12 11:07	Prepared:	10/10/12 14:00	Analyzed:	10/13/12 01:06
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**3.79**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.008774	43.9	30 - 140	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29214	Instrument:	GL-GCFID2
		Calibration:	2278001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J29214-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 10/17/12 16:22		
o-Terphenyl	50.00	83.6	80 - 120	11.116	11.116	0.0000	+/-0.050	
GW0839 (1210056-17RE1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/17/12 16:56		
o-Terphenyl	0.02000	62.7	30 - 140	11.116	11.116	0.0000	+/-0.050	
Calibration Check (2J29214-CCV2) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/17/12 17:29		
o-Terphenyl	50.00	86.1	80 - 120	11.12	11.116	0.0040	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29402	Instrument:	GL-GCFID2
		Calibration:	2278001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J29402-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 10/12/12 15:42		
o-Terphenyl	50.00	100	80 - 120	11.11	11.11	0.0000	+/-0.050	
Blank (2J10011-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/12/12 16:15		
o-Terphenyl	0.02000	73.7	30 - 140	11.11	11.11	0.0000	+/-0.050	
LCS (2J10011-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/12/12 16:48		
o-Terphenyl	0.02000	69.1	30 - 140	11.1	11.11	-0.0100	+/-0.050	
LCS Dup (2J10011-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 10/12/12 17:22		
o-Terphenyl	0.02000	66.8	30 - 140	11.096	11.11	-0.0140	+/-0.050	
GW0748 (1210056-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 10/12/12 17:55		
o-Terphenyl	0.02000	76.0	30 - 140	11.11	11.11	0.0000	+/-0.050	
GW0749 (1210056-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 10/12/12 18:28		
o-Terphenyl	0.01923	68.6	30 - 140	11.106	11.11	-0.0040	+/-0.050	
GW0752 (1210056-05) mg/L				Lab File ID: 009F0901.D		Analyzed: 10/12/12 19:01		
o-Terphenyl	0.01961	51.1	30 - 140	11.113	11.11	0.0030	+/-0.050	
GW0758 (1210056-07) mg/L				Lab File ID: 010F1001.D		Analyzed: 10/12/12 19:35		
o-Terphenyl	0.02000	72.8	30 - 140	11.106	11.11	-0.0040	+/-0.050	
GW0775 (1210056-09) mg/L				Lab File ID: 011F1101.D		Analyzed: 10/12/12 20:08		
o-Terphenyl	0.01961	68.8	30 - 140	11.1	11.11	-0.0100	+/-0.050	
GW0776 (1210056-11) mg/L				Lab File ID: 012F1201.D		Analyzed: 10/12/12 20:41		
o-Terphenyl	0.01961	50.9	30 - 140	11.1	11.11	-0.0100	+/-0.050	
GW0777 (1210056-13) mg/L				Lab File ID: 013F1301.D		Analyzed: 10/12/12 21:14		
o-Terphenyl	0.01923	53.0	30 - 140	11.12	11.11	0.0100	+/-0.050	
GW0838 (1210056-15) mg/L				Lab File ID: 014F1401.D		Analyzed: 10/12/12 21:47		
o-Terphenyl	0.01961	45.6	30 - 140	11.07	11.11	-0.0400	+/-0.050	
GW0840 (1210056-19) mg/L				Lab File ID: 016F1601.D		Analyzed: 10/12/12 22:54		
o-Terphenyl	0.02000	61.0	30 - 140	11.116	11.11	0.0060	+/-0.050	
Calibration Check (2J29402-CCV2) mg/L				Lab File ID: 017F1701.D		Analyzed: 10/12/12 23:27		
o-Terphenyl	50.00	89.6	80 - 120	11.09	11.11	-0.0200	+/-0.050	
GW0851 (1210056-21) mg/L				Lab File ID: 018F1801.D		Analyzed: 10/13/12 00:00		
o-Terphenyl	0.02000	57.8	30 - 140	11.073	11.11	-0.0370	+/-0.050	
GW0852 (1210056-23) mg/L				Lab File ID: 019F1901.D		Analyzed: 10/13/12 00:33		
o-Terphenyl	0.01887	65.7	30 - 140	11.106	11.11	-0.0040	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29402	Instrument:	GL-GCFID2
		Calibration:	2278001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0853 (1210056-25) mg/L				Lab File ID: 020F2001.D		Analyzed: 10/13/12 01:06		
o-Terphenyl	0.02000	43.9	30 - 140	11.066	11.11	-0.0440	+/-0.050	
Calibration Check (2J29402-CCV3) mg/L				Lab File ID: 021F2101.D		Analyzed: 10/13/12 01:40		
o-Terphenyl	50.00	91.3	80 - 120	11.08	11.11	-0.0300	+/-0.050	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J10011	Laboratory ID:	2J10011-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	0.7148	71.5	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	0.6785	67.9	5.21	30	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J10011 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/10/12 14:00	500.00	0.50
GW0749	1210056-03	10/10/12 14:00	1,040.00	1.00
GW0752	1210056-05	10/10/12 14:00	1,020.00	1.00
GW0758	1210056-07	10/10/12 14:00	1,000.00	1.00
GW0775	1210056-09	10/10/12 14:00	1,020.00	1.00
GW0776	1210056-11	10/10/12 14:00	1,020.00	1.00
GW0777	1210056-13	10/10/12 14:00	1,040.00	1.00
GW0838	1210056-15	10/10/12 14:00	1,020.00	1.00
GW0839	1210056-17RE1	10/10/12 14:00	1,000.00	1.00
GW0840	1210056-19	10/10/12 14:00	1,000.00	1.00
GW0851	1210056-21	10/10/12 14:00	1,000.00	1.00
GW0852	1210056-23	10/10/12 14:00	1,060.00	1.00
GW0853	1210056-25	10/10/12 14:00	1,000.00	1.00
Blank	2J10011-BLK1	10/10/12 14:00	1,000.00	1.00
LCS	2J10011-BS1	10/10/12 14:00	1,000.00	1.00
LCS Dup	2J10011-BSD1	10/10/12 14:00	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2J10011-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/12/12 16:15
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2J10011 Sequence: 2J29402 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01475	73.7	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J10011-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/12/12 16:48
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J10011	Sequence:	2J29402	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.7148**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01382	69.1	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J10011-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	10/12/12 17:22
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J10011	Sequence:	2J29402	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6785**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01335	66.8	30 - 140	

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J27808	Instrument:	GL-GCFID2
Calibration:	2278001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0087	DRO/OTP Cal1 (5000/250ppm)	2J27808-CAL1	003F0301.D	10/03/12 13:48
12J0088	DRO/OTP Cal2 (2500/125ppm)	2J27808-CAL2	004F0401.D	10/03/12 14:21
12J0089	DRO/OTP Cal3 (1000/50ppm)	2J27808-CAL3	005F0501.D	10/03/12 14:54
12J0090	DRO/OTP Cal4 (500/25ppm)	2J27808-CAL4	006F0601.D	10/03/12 15:28
12J0091	DRO/OTP Cal5 (250/12.5ppm)	2J27808-CAL5	007F0701.D	10/03/12 16:01
12J0092	DRO/OTP Cal6 (100/5ppm)	2J27808-CAL6	008F0801.D	10/03/12 16:34

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J27808	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J27808-CAL1	003F0301.D	10/03/12 13:48
Cal Standard	2J27808-CAL2	004F0401.D	10/03/12 14:21
Cal Standard	2J27808-CAL3	005F0501.D	10/03/12 14:54
Cal Standard	2J27808-CAL4	006F0601.D	10/03/12 15:28
Cal Standard	2J27808-CAL5	007F0701.D	10/03/12 16:01
Cal Standard	2J27808-CAL6	008F0801.D	10/03/12 16:34
Initial Cal Check	2J27808-ICV1	009F0901.D	10/03/12 17:08

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29214	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J29214-CCV1	003F0301.D	10/17/12 16:22
GW0839	1210056-17RE1	004F0401.D	10/17/12 16:56
Calibration Check	2J29214-CCV2	005F0501.D	10/17/12 17:29

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29402	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J29402-CCV1	003F0301.D	10/12/12 15:42
Blank	2J10011-BLK1	004F0401.D	10/12/12 16:15
LCS	2J10011-BS1	005F0501.D	10/12/12 16:48
LCS Dup	2J10011-BSD1	006F0601.D	10/12/12 17:22
GW0748	1210056-01	007F0701.D	10/12/12 17:55
GW0749	1210056-03	008F0801.D	10/12/12 18:28
GW0752	1210056-05	009F0901.D	10/12/12 19:01
GW0758	1210056-07	010F1001.D	10/12/12 19:35
GW0775	1210056-09	011F1101.D	10/12/12 20:08
GW0776	1210056-11	012F1201.D	10/12/12 20:41
GW0777	1210056-13	013F1301.D	10/12/12 21:14
GW0838	1210056-15	014F1401.D	10/12/12 21:47
GW0840	1210056-19	016F1601.D	10/12/12 22:54
Calibration Check	2J29402-CCV2	017F1701.D	10/12/12 23:27
GW0851	1210056-21	018F1801.D	10/13/12 00:00
GW0852	1210056-23	019F1901.D	10/13/12 00:33
GW0853	1210056-25	020F2001.D	10/13/12 01:06
Calibration Check	2J29402-CCV3	021F2101.D	10/13/12 01:40

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2278001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	10/3/12_13:48	10/3/12_16:34

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)	5000	713.812	2500	581.5312	1000	606.94	500	556.046	250	379.18	100	327.93
o-Terphenyl	250	816.82	125	677.752	50	727.64	25	672.88	12.5	695.44	5	749

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2278001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	10/3/12 13:48	10/3/12 16:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	527.5732	27.67442	5.88	1.329984E-02		0.9990672	0.99	
o-Terphenyl	723.2553	7.527006	11.10817	4.717436E-02			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	009F0901.D	Calibration Date:	10/03/12 13:48
Sequence:	2J27808	Injection Date:	10/03/12
Lab Sample ID:	2J27808-ICV1	Injection Time:	17:08

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1014	527.5732	557.896		1.4	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	003F0301.D	Calibration Date:	10/03/12 13:48
Sequence:	2J29214	Injection Date:	10/17/12
Lab Sample ID:	2J29214-CCV1	Injection Time:	16:22

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	923.7	527.5732	505.323		-7.6	20
o-Terphenyl	A	50.00	41.82	723.2553	604.92		-16.4	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	005F0501.D	Calibration Date:	10/03/12 13:48
Sequence:	2J29214	Injection Date:	10/17/12
Lab Sample ID:	2J29214-CCV2	Injection Time:	17:29

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	981.3	527.5732	538.901		-1.9	20
o-Terphenyl	A	50.00	43.06	723.2553	622.94		-13.9	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	003F0301.D	Calibration Date:	10/03/12 13:48
Sequence:	2J29402	Injection Date:	10/12/12
Lab Sample ID:	2J29402-CCV1	Injection Time:	15:42

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1088	527.5732	601.751		8.8	20
o-Terphenyl	A	50.00	50.20	723.2553	726.18		0.4	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	017F1701.D	Calibration Date:	10/03/12 13:48
Sequence:	2J29402	Injection Date:	10/12/12
Lab Sample ID:	2J29402-CCV2	Injection Time:	23:27

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1021	527.5732	562.231		2.1	20
o-Terphenyl	A	50.00	44.78	723.2553	647.78		-10.4	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	021F2101.D	Calibration Date:	10/03/12 13:48
Sequence:	2J29402	Injection Date:	10/13/12
Lab Sample ID:	2J29402-CCV3	Injection Time:	01:40

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	947.2	527.5732	518.98		-5.3	20
o-Terphenyl	A	50.00	45.64	723.2553	660.26		-8.7	20

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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
GW0748	10/03/12 11:00	10/05/12 08:30	10/10/12 14:00	7.08	7.00	10/12/12 17:55	2.16	40.00	
GW0749	10/03/12 12:17	10/05/12 08:30	10/10/12 14:00	7.03	7.00	10/12/12 18:28	2.19	40.00	
GW0752	10/03/12 09:10	10/05/12 08:30	10/10/12 14:00	7.16	7.00	10/12/12 19:01	2.21	40.00	
GW0758	10/04/12 13:07	10/05/12 08:30	10/10/12 14:00	6.00	7.00	10/12/12 19:35	2.23	40.00	
GW0775	10/04/12 15:56	10/05/12 08:30	10/10/12 14:00	5.88	7.00	10/12/12 20:08	2.26	40.00	
GW0776	10/04/12 10:31	10/05/12 08:30	10/10/12 14:00	6.10	7.00	10/12/12 20:41	2.28	40.00	
GW0777	10/04/12 10:31	10/05/12 08:30	10/10/12 14:00	6.10	7.00	10/12/12 21:14	2.30	40.00	
GW0838	10/03/12 16:05	10/05/12 08:30	10/10/12 14:00	6.87	7.00	10/12/12 21:47	2.32	40.00	
GW0839	10/03/12 14:07	10/05/12 08:30	10/10/12 14:00	6.95	7.00	10/17/12 16:56	7.12	40.00	
GW0840	10/03/12 11:38	10/05/12 08:30	10/10/12 14:00	7.06	7.00	10/12/12 22:54	2.37	40.00	
GW0851	10/04/12 15:37	10/05/12 08:30	10/10/12 14:00	5.89	7.00	10/13/12 00:00	2.42	40.00	
GW0852	10/04/12 13:22	10/05/12 08:30	10/10/12 14:00	5.98	7.00	10/13/12 00:33	2.44	40.00	
GW0853	10/04/12 11:07	10/05/12 08:30	10/10/12 14:00	6.08	7.00	10/13/12 01:06	2.46	40.00	

SW8015B (GRO)
Forms

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-03 [GW0749]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-05 [GW0752]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-07 [GW0758]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-09 [GW0775]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-11 [GW0776]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-13 [GW0777]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-15 [GW0838]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-17 [GW0839]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-19 [GW0840]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-21 [GW0851]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-23 [GW0852]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-25 [GW0853]	2J09025	5.00/5.00	5.00	5.00	1.00		10/10/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01	File ID:	014F1401.D
Sampled:	10/03/12 11:00	Prepared:	10/10/12 03:32	Analyzed:	10/10/12 03:32
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05274	105	50 - 150	

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03	File ID:	015F1501.D
Sampled:	10/03/12 12:17	Prepared:	10/10/12 04:10	Analyzed:	10/10/12 04:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05176	104	50 - 150	

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05	File ID:	016F1601.D
Sampled:	10/03/12 09:10	Prepared:	10/10/12 04:48	Analyzed:	10/10/12 04:48
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05574	111	50 - 150	

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07	File ID:	017F1701.D
Sampled:	10/04/12 13:07	Prepared:	10/10/12 05:27	Analyzed:	10/10/12 05:27
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05313	106	50 - 150	

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09	File ID:	018F1801.D
Sampled:	10/04/12 15:56	Prepared:	10/10/12 06:05	Analyzed:	10/10/12 06:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05628	113	50 - 150	

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11	File ID:	020F2001.D
Sampled:	10/04/12 10:31	Prepared:	10/10/12 07:22	Analyzed:	10/10/12 07:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05128	103	50 - 150	

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13	File ID:	021F2101.D
Sampled:	10/04/12 10:31	Prepared:	10/10/12 08:01	Analyzed:	10/10/12 08:01
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05159	103	50 - 150	

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15	File ID:	022F2201.D
Sampled:	10/03/12 16:05	Prepared:	10/10/12 08:39	Analyzed:	10/10/12 08:39
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.890**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04868	97.4	50 - 150	

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17	File ID:	023F2301.D
Sampled:	10/03/12 14:07	Prepared:	10/10/12 09:17	Analyzed:	10/10/12 09:17
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**1.87**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05002	100	50 - 150	

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19	File ID:	024F2401.D
Sampled:	10/03/12 11:38	Prepared:	10/10/12 09:55	Analyzed:	10/10/12 09:55
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05427	109	50 - 150	

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21	File ID:	025F2501.D
Sampled:	10/04/12 15:37	Prepared:	10/10/12 10:33	Analyzed:	10/10/12 10:33
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**1.69**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05507	110	50 - 150	

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23	File ID:	026F2601.D
Sampled:	10/04/12 13:22	Prepared:	10/10/12 11:11	Analyzed:	10/10/12 11:11
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.05117	102	50 - 150	

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_064
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25	File ID:	027F2701.D
Sampled:	10/04/12 11:07	Prepared:	10/10/12 11:49	Analyzed:	10/10/12 11:49
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J09025 Sequence: 2J28518 Calibration: 2216001 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	0.04980	99.6	50 - 150	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28518	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J28518-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 10/09/12 20:30		
Bromofluorobenzene	0.05000	82.6	80 - 120	20.296	20.296	0.0000	+/-0.210	
Blank (2J09025-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/09/12 21:08		
Bromofluorobenzene	0.05000	99.7	50 - 150	20.3	20.296	0.0040	+/-0.210	
LCS (2J09025-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/09/12 21:46		
Bromofluorobenzene	0.05000	40.2	50 - 150	20.31	20.296	0.0140	+/-0.210	*
LCS Dup (2J09025-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 10/09/12 22:25		
Bromofluorobenzene	0.05000	49.5	50 - 150	20.316	20.296	0.0200	+/-0.210	*
GW0748 (1210056-01) mg/L				Lab File ID: 014F1401.D		Analyzed: 10/10/12 03:32		
Bromofluorobenzene	0.05000	105	50 - 150	20.32	20.296	0.0240	+/-0.210	
GW0749 (1210056-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 10/10/12 04:10		
Bromofluorobenzene	0.05000	104	50 - 150	20.316	20.296	0.0200	+/-0.210	
GW0752 (1210056-05) mg/L				Lab File ID: 016F1601.D		Analyzed: 10/10/12 04:48		
Bromofluorobenzene	0.05000	111	50 - 150	20.316	20.296	0.0200	+/-0.210	
GW0758 (1210056-07) mg/L				Lab File ID: 017F1701.D		Analyzed: 10/10/12 05:27		
Bromofluorobenzene	0.05000	106	50 - 150	20.32	20.296	0.0240	+/-0.210	
GW0775 (1210056-09) mg/L				Lab File ID: 018F1801.D		Analyzed: 10/10/12 06:05		
Bromofluorobenzene	0.05000	113	50 - 150	20.316	20.296	0.0200	+/-0.210	
Calibration Check (2J28518-CCV2) ug/mL				Lab File ID: 019F1901.D		Analyzed: 10/10/12 06:44		
Bromofluorobenzene	0.05000	98.0	80 - 120	20.323	20.296	0.0270	+/-0.210	
GW0776 (1210056-11) mg/L				Lab File ID: 020F2001.D		Analyzed: 10/10/12 07:22		
Bromofluorobenzene	0.05000	103	50 - 150	20.313	20.296	0.0170	+/-0.210	
GW0777 (1210056-13) mg/L				Lab File ID: 021F2101.D		Analyzed: 10/10/12 08:01		
Bromofluorobenzene	0.05000	103	50 - 150	20.32	20.296	0.0240	+/-0.210	
GW0838 (1210056-15) mg/L				Lab File ID: 022F2201.D		Analyzed: 10/10/12 08:39		
Bromofluorobenzene	0.05000	97.4	50 - 150	20.323	20.296	0.0270	+/-0.210	
GW0839 (1210056-17) mg/L				Lab File ID: 023F2301.D		Analyzed: 10/10/12 09:17		
Bromofluorobenzene	0.05000	100	50 - 150	20.316	20.296	0.0200	+/-0.210	
GW0840 (1210056-19) mg/L				Lab File ID: 024F2401.D		Analyzed: 10/10/12 09:55		
Bromofluorobenzene	0.05000	109	50 - 150	20.323	20.296	0.0270	+/-0.210	
GW0851 (1210056-21) mg/L				Lab File ID: 025F2501.D		Analyzed: 10/10/12 10:33		
Bromofluorobenzene	0.05000	110	50 - 150	20.32	20.296	0.0240	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28518	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0852 (1210056-23) mg/L				Lab File ID: 026F2601.D		Analyzed: 10/10/12 11:11		
Bromofluorobenzene	0.05000	102	50 - 150	20.32	20.296	0.0240	+/-0.210	
GW0853 (1210056-25) mg/L				Lab File ID: 027F2701.D		Analyzed: 10/10/12 11:49		
Bromofluorobenzene	0.05000	99.6	50 - 150	20.316	20.296	0.0200	+/-0.210	
Calibration Check (2J28518-CCV3) ug/mL				Lab File ID: 028F2801.D		Analyzed: 10/10/12 12:28		
Bromofluorobenzene	0.05000	93.0	80 - 120	20.313	20.296	0.0170	+/-0.210	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J09025	Laboratory ID:	2J09025-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	0.6140	123	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	0.6404	128	4.21	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J09025 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/10/12 03:32	5.00	5.00
GW0749	1210056-03	10/10/12 04:10	5.00	5.00
GW0752	1210056-05	10/10/12 04:48	5.00	5.00
GW0758	1210056-07	10/10/12 05:27	5.00	5.00
GW0775	1210056-09	10/10/12 06:05	5.00	5.00
GW0776	1210056-11	10/10/12 07:22	5.00	5.00
GW0777	1210056-13	10/10/12 08:01	5.00	5.00
GW0838	1210056-15	10/10/12 08:39	5.00	5.00
GW0839	1210056-17	10/10/12 09:17	5.00	5.00
GW0840	1210056-19	10/10/12 09:55	5.00	5.00
GW0851	1210056-21	10/10/12 10:33	5.00	5.00
GW0852	1210056-23	10/10/12 11:11	5.00	5.00
GW0853	1210056-25	10/10/12 11:49	5.00	5.00
Blank	2J09025-BLK1	10/09/12 21:08	5.00	5.00
LCS	2J09025-BS1	10/09/12 21:46	5.00	5.00
LCS Dup	2J09025-BSD1	10/09/12 22:25	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J09025-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/09/12 21:08
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2J09025	Sequence:	2J28518	Calibration:	2216001	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	0.04984	99.7	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J09025-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/09/12 21:46
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2J09025	Sequence:	2J28518	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.6140**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.02008	40.2	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J09025-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	10/09/12 22:25
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2J09025	Sequence:	2J28518	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.6404**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.02473	49.5	50 - 150	

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12H0009	GRO Cal 0.1ppm	2H21611-CAL1	003F0301.D	07/31/12 15:05
12H0010	GRO Cal 0.2ppm	2H21611-CAL2	004F0401.D	07/31/12 15:45
12H0011	GRO Cal 0.5ppm	2H21611-CAL3	005F0501.D	07/31/12 16:25
12H0012	GRO Cal 1.0ppm	2H21611-CAL4	006F0601.D	07/31/12 17:05
12H0013	GRO Cal 2.0ppm	2H21611-CAL5	007F0701.D	07/31/12 17:44
12H0014	GRO Cal 5.0ppm	2H21611-CAL6	008F0801.D	07/31/12 18:24

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21611-CAL1	003F0301.D	07/31/12 15:05
Cal Standard	2H21611-CAL2	004F0401.D	07/31/12 15:45
Cal Standard	2H21611-CAL3	005F0501.D	07/31/12 16:25
Cal Standard	2H21611-CAL4	006F0601.D	07/31/12 17:05
Cal Standard	2H21611-CAL5	007F0701.D	07/31/12 17:44
Cal Standard	2H21611-CAL6	008F0801.D	07/31/12 18:24
Initial Cal Check	2H21611-ICV1	003F0301.D	08/02/12 14:13

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28518	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J28518-CCV1	003F0301.D	10/09/12 20:30
Blank	2J09025-BLK1	004F0401.D	10/09/12 21:08
LCS	2J09025-BS1	005F0501.D	10/09/12 21:46
LCS Dup	2J09025-BSD1	006F0601.D	10/09/12 22:25
GW0748	1210056-01	014F1401.D	10/10/12 03:32
GW0749	1210056-03	015F1501.D	10/10/12 04:10
GW0752	1210056-05	016F1601.D	10/10/12 04:48
GW0758	1210056-07	017F1701.D	10/10/12 05:27
GW0775	1210056-09	018F1801.D	10/10/12 06:05
Calibration Check	2J28518-CCV2	019F1901.D	10/10/12 06:44
GW0776	1210056-11	020F2001.D	10/10/12 07:22
GW0777	1210056-13	021F2101.D	10/10/12 08:01
GW0838	1210056-15	022F2201.D	10/10/12 08:39
GW0839	1210056-17	023F2301.D	10/10/12 09:17
GW0840	1210056-19	024F2401.D	10/10/12 09:55
GW0851	1210056-21	025F2501.D	10/10/12 10:33
GW0852	1210056-23	026F2601.D	10/10/12 11:11
GW0853	1210056-25	027F2701.D	10/10/12 11:49
Calibration Check	2J28518-CCV3	028F2801.D	10/10/12 12:28

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12_15:05	7/31/12_18:24

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	0.1	2233630	0.2	1477410	0.5	1120412	1	946984	2	1011274	5	961363.4
Bromofluorobenzene	0.01	1563200	0.02	941550	0.05	566820	0.1	481890	0.2	490520	0.5	412342

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12 15:05	7/31/12 18:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1291846	38.82256	7.807	0.017641	0.9992676		0.995	
Bromofluorobenzene	742720.3	59.74288	20.3135	9.003825E-03	0.9969704		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2H21611	Injection Date:	08/02/12
Lab Sample ID:	2H21611-ICV1	Injection Time:	14:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4958	1291846	1119582		-0.8	20
Bromofluorobenzene	L	0.05000	0.04848	742720.3	607700		-3.0	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2J28518	Injection Date:	10/09/12
Lab Sample ID:	2J28518-CCV1	Injection Time:	20:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5136	1291846	1153190		2.7	20
Bromofluorobenzene	L	0.05000	0.04130	742720.3	550920		-17.4	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	019F1901.D	Calibration Date:	07/31/12 15:05
Sequence:	2J28518	Injection Date:	10/10/12
Lab Sample ID:	2J28518-CCV2	Injection Time:	06:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4494	1291846	1032096		-10.1	20
Bromofluorobenzene	L	0.05000	0.04899	742720.3	611720		-2.0	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	028F2801.D	Calibration Date:	07/31/12 15:05
Sequence:	2J28518	Injection Date:	10/10/12
Lab Sample ID:	2J28518-CCV3	Injection Time:	12:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4326	1291846	1000396		-13.5	20
Bromofluorobenzene	L	0.05000	0.04648	742720.3	591880		-7.0	20

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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
GW0748	10/03/12 11:00	10/05/12 08:30	10/10/12 03:32	N/A	14.00	10/10/12 03:32	6.65	14.00	
GW0749	10/03/12 12:17	10/05/12 08:30	10/10/12 04:10	N/A	14.00	10/10/12 04:10	6.62	14.00	
GW0752	10/03/12 09:10	10/05/12 08:30	10/10/12 04:48	N/A	14.00	10/10/12 04:48	6.78	14.00	
GW0758	10/04/12 13:07	10/05/12 08:30	10/10/12 05:27	N/A	14.00	10/10/12 05:27	5.64	14.00	
GW0775	10/04/12 15:56	10/05/12 08:30	10/10/12 06:05	N/A	14.00	10/10/12 06:05	5.55	14.00	
GW0776	10/04/12 10:31	10/05/12 08:30	10/10/12 07:22	N/A	14.00	10/10/12 07:22	5.83	14.00	
GW0777	10/04/12 10:31	10/05/12 08:30	10/10/12 08:01	N/A	14.00	10/10/12 08:01	5.85	14.00	
GW0838	10/03/12 16:05	10/05/12 08:30	10/10/12 08:39	N/A	14.00	10/10/12 08:39	6.65	14.00	
GW0839	10/03/12 14:07	10/05/12 08:30	10/10/12 09:17	N/A	14.00	10/10/12 09:17	6.76	14.00	
GW0840	10/03/12 11:38	10/05/12 08:30	10/10/12 09:55	N/A	14.00	10/10/12 09:55	6.89	14.00	
GW0851	10/04/12 15:37	10/05/12 08:30	10/10/12 10:33	N/A	14.00	10/10/12 10:33	5.75	14.00	
GW0852	10/04/12 13:22	10/05/12 08:30	10/10/12 11:11	N/A	14.00	10/10/12 11:11	5.87	14.00	
GW0853	10/04/12 11:07	10/05/12 08:30	10/10/12 11:49	N/A	14.00	10/10/12 11:49	5.99	14.00	

Data for SW6010B Forms

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-02 [GW0748]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-04 [GW0749]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-06 [GW0752]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-08 [GW0758]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-10 [GW0775]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-12 [GW0776]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-14 [GW0777]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-16 [GW0838]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-18 [GW0839]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-20 [GW0840]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-22 [GW0851]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-24 [GW0852]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12
1210056-26 [GW0853]	2J11024	50.00/50.00	50.0	50.0	1.00		10/11/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-03 [GW0749]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-05 [GW0752]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-07 [GW0758]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-09 [GW0775]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-11 [GW0776]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-13 [GW0777]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-15 [GW0838]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-17 [GW0839]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-19 [GW0840]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-21 [GW0851]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-23 [GW0852]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12
1210056-25 [GW0853]	2J18011	50.00/50.00	50.0	50.0	1.00		10/18/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01
Sampled:	10/03/12 11:00	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**45000**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 14:29
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 14:29
7439-95-4	Magnesium	**5890**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:29
7440-09-7	Potassium	**2270**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 14:29
7440-23-5	Sodium	**23300**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:29

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-02
Sampled:	10/03/12 11:00	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:28
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2J11024	10/11/12 16:28

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03
Sampled:	10/03/12 12:17	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**30700**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 14:33
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	2J18011	10/19/12 14:33
7439-95-4	Magnesium	**7580**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:33
7440-09-7	Potassium	**6160**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:33
7440-23-5	Sodium	**37100**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:33

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-04
Sampled:	10/03/12 12:17	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:32
7439-96-5	Manganese (dissolved)	**22.1**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 16:32

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05
Sampled:	10/03/12 09:10	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**35700**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 14:38
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 14:38
7439-95-4	Magnesium	**6490**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:38
7440-09-7	Potassium	**3060**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 14:38
7440-23-5	Sodium	**23000**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:38

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-06
Sampled:	10/03/12 09:10	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:37
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2J11024	10/11/12 16:37

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07
Sampled:	10/04/12 13:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**83300**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 14:55
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 14:55
7439-95-4	Magnesium	**11700**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:55
7440-09-7	Potassium	**3020**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 14:55
7440-23-5	Sodium	**32900**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 14:55

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-08
Sampled:	10/04/12 13:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:41
7439-96-5	Manganese (dissolved)	**69.1**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 16:41

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09
Sampled:	10/04/12 15:56	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**60800**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:00
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:00
7439-95-4	Magnesium	**15000**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:00
7440-09-7	Potassium	**2900**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:00
7440-23-5	Sodium	**29400**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:00

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-10
Sampled:	10/04/12 15:56	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:46
7439-96-5	Manganese (dissolved)	**82.2**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 16:46

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11
Sampled:	10/04/12 10:31	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**60600**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:04
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	2J18011	10/19/12 15:04
7439-95-4	Magnesium	**15100**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:04
7440-09-7	Potassium	**2870**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:04
7440-23-5	Sodium	**29100**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:04

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-12
Sampled:	10/04/12 10:31	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:50
7439-96-5	Manganese (dissolved)	**82.9**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 16:50

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13
Sampled:	10/04/12 10:31	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**47100**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:08
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	2J18011	10/19/12 15:08
7439-95-4	Magnesium	**6660**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:08
7440-09-7	Potassium	**2690**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:08
7440-23-5	Sodium	**28400**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:08

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-14
Sampled:	10/04/12 10:31	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 16:55
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2J11024	10/11/12 16:55

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15
Sampled:	10/03/12 16:05	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**61900**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:13
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:13
7439-95-4	Magnesium	**8920**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:13
7440-09-7	Potassium	**2830**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:13
7440-23-5	Sodium	**28900**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:13

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-16
Sampled:	10/03/12 16:05	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**305**	30.0	60.0	100	1		SW6010B	2J11024	10/11/12 16:59
7439-96-5	Manganese (dissolved)	**1040**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 16:59

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17
Sampled:	10/03/12 14:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**90100**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:17
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:17
7439-95-4	Magnesium	**12500**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:17
7440-09-7	Potassium	**3190**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:17
7440-23-5	Sodium	**34700**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:17

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-18
Sampled:	10/03/12 14:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**349**	30.0	60.0	100	1		SW6010B	2J11024	10/11/12 17:04
7439-96-5	Manganese (dissolved)	**1230**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 17:04

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19
Sampled:	10/03/12 11:38	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**32000**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:22
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:22
7439-95-4	Magnesium	**4420**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:22
7440-09-7	Potassium	**1970**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:22
7440-23-5	Sodium	**21300**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:22

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-20
Sampled:	10/03/12 11:38	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 17:08
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2J11024	10/11/12 17:08

ANALYSIS DATA SHEET

GW0851

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 10/04/12 15:37
% Solids: 0.00

SDG: Kirtland_064
Project: Kirtland AFB 2011
Laboratory ID: 1210056-21
Received: 10/05/12 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**64300**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:26
7439-95-4	Magnesium	**9670**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:26
7440-09-7	Potassium	**2780**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:26
7440-23-5	Sodium	**28900**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:26

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-22
Sampled:	10/04/12 15:37	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**2380**	30.0	60.0	100	1		SW6010B	2J11024	10/11/12 17:25
7439-96-5	Manganese (dissolved)	**1000**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 17:25

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23
Sampled:	10/04/12 13:22	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**48600**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:31
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:31
7439-95-4	Magnesium	**6940**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:31
7440-09-7	Potassium	**2470**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:31
7440-23-5	Sodium	**24300**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:31

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-24
Sampled:	10/04/12 13:22	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 17:30
7439-96-5	Manganese (dissolved)	**67.7**	3.00	6.00	15.0	1		SW6010B	2J11024	10/11/12 17:30

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25
Sampled:	10/04/12 11:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**31900**	1000	2000	5000	1		SW6010B	2J18011	10/19/12 15:35
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J18011	10/19/12 15:35
7439-95-4	Magnesium	**4480**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:35
7440-09-7	Potassium	**1930**	1000	3000	5000	1	J	SW6010B	2J18011	10/19/12 15:35
7440-23-5	Sodium	**21400**	1000	3000	5000	1		SW6010B	2J18011	10/19/12 15:35

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-26
Sampled:	10/04/12 11:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J11024	10/11/12 17:34
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2J11024	10/11/12 17:34

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_064
Project: Kirtland AFB 2011
Calibration: 2286001
Sequence: 2J28512

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J28512-ICV1	Iron (dissolved)	10000	10040	100	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	992.6	99.3	ug/L	+/- 10.00%
2J28512-CCV1	Iron (dissolved)	10000	10280	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1014	101	ug/L	+/- 10.00%
2J28512-CCV5	Iron (dissolved)	10000	10240	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1030	103	ug/L	+/- 10.00%
2J28512-CCV6	Iron (dissolved)	10000	10200	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1040	104	ug/L	+/- 10.00%
2J28512-CCV7	Iron (dissolved)	10000	10580	106	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1056	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_064
Project: Kirtland AFB 2011
Calibration: 2296003
Sequence: 2J29611

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J29611-ICV1	Calcium	50000	49860	99.7	ug/L	+/- 10.00%
	Lead	1000	957.4	95.7	ug/L	+/- 10.00%
	Magnesium	50000	51740	103	ug/L	+/- 10.00%
	Potassium	10000	9886	98.9	ug/L	+/- 10.00%
	Sodium	50000	48130	96.3	ug/L	+/- 10.00%
2J29611-CCV1	Calcium	50000	50530	101	ug/L	+/- 10.00%
	Lead	1000	977.3	97.7	ug/L	+/- 10.00%
	Magnesium	50000	50660	101	ug/L	+/- 10.00%
	Potassium	10000	9825	98.2	ug/L	+/- 10.00%
	Sodium	50000	51390	103	ug/L	+/- 10.00%
2J29611-CCV3	Calcium	50000	48420	96.8	ug/L	+/- 10.00%
	Lead	1000	974.6	97.5	ug/L	+/- 10.00%
	Magnesium	50000	48720	97.4	ug/L	+/- 10.00%
	Potassium	10000	9591	95.9	ug/L	+/- 10.00%
	Sodium	50000	50330	101	ug/L	+/- 10.00%
2J29611-CCV4	Calcium	50000	47750	95.5	ug/L	+/- 10.00%
	Lead	1000	974.1	97.4	ug/L	+/- 10.00%
	Magnesium	50000	48730	97.5	ug/L	+/- 10.00%
	Potassium	10000	9574	95.7	ug/L	+/- 10.00%
	Sodium	50000	49620	99.2	ug/L	+/- 10.00%
2J29611-CCV5	Calcium	50000	49150	98.3	ug/L	+/- 10.00%
	Lead	1000	973.7	97.4	ug/L	+/- 10.00%
	Magnesium	50000	49470	98.9	ug/L	+/- 10.00%
	Potassium	10000	9700	97.0	ug/L	+/- 10.00%
	Sodium	50000	50830	102	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2286001

Sequence: 2J28512

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2J28512-CRL1	Iron (dissolved)	60.00	62.08	103	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.257	104	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2296003

Sequence: 2J29611

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2J29611-CRL1	Calcium	2000	2134	107	ug/L	80 - 120
	Lead	3.000	2.428	80.9	ug/L	80 - 120
	Magnesium	3000	3278	109	ug/L	80 - 120
	Potassium	3000	3053	102	ug/L	80 - 120
	Sodium	3000	3092	103	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2J28512
Calibration: 2286001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J28512-ICB1	Iron (dissolved)	-2.000	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.006010	3.00	15.0	ug/L	U	SW6010B
2J28512-CCB1	Iron (dissolved)	-0.135	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0222	3.00	15.0	ug/L	U	SW6010B
2J28512-CCB5	Iron (dissolved)	-1.61	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.102	3.00	15.0	ug/L	U	SW6010B
2J11024-BLK1	Iron (dissolved)	0.929	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0155	3.00	15.0	ug/L	U	SW6010B
2J28512-CCB6	Iron (dissolved)	-0.166	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.250	3.00	15.0	ug/L	U	SW6010B
2J28512-CCB7	Iron (dissolved)	0.362	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.170	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2J29611
Calibration: 2296003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J29611-ICB1	Calcium	0.2200	1000	5000	ug/L	U	SW6010B
	Lead	-0.8076	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.4500	1000	5000	ug/L	U	SW6010B
	Potassium	-2.550	1000	5000	ug/L	U	SW6010B
	Sodium	12.69	1000	5000	ug/L	U	SW6010B
2J29611-CCB1	Calcium	1.19	1000	5000	ug/L	U	SW6010B
	Lead	0.0473	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.04	1000	5000	ug/L	U	SW6010B
	Potassium	-2.10	1000	5000	ug/L	U	SW6010B
	Sodium	2.00	1000	5000	ug/L	U	SW6010B
2J29611-CCB3	Calcium	2.83	1000	5000	ug/L	U	SW6010B
	Lead	-0.580	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.38	1000	5000	ug/L	U	SW6010B
	Potassium	-3.48	1000	5000	ug/L	U	SW6010B
	Sodium	19.8	1000	5000	ug/L	U	SW6010B
2J18011-BLK1	Calcium	19.2	1000	5000	ug/L	U	SW6010B
	Lead	0.0764	1.50	3.00	ug/L	U	SW6010B
	Magnesium	10.2	1000	5000	ug/L	U	SW6010B
	Potassium	12.0	1000	5000	ug/L	U	SW6010B
	Sodium	33.3	1000	5000	ug/L	U	SW6010B
2J29611-CCB4	Calcium	-0.0300	1000	5000	ug/L	U	SW6010B
	Lead	-0.469	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.35	1000	5000	ug/L	U	SW6010B
	Potassium	-6.57	1000	5000	ug/L	U	SW6010B
	Sodium	2.48	1000	5000	ug/L	U	SW6010B
2J29611-CCB5	Calcium	4.53	1000	5000	ug/L	U	SW6010B
	Lead	-0.513	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.1	1000	5000	ug/L	U	SW6010B
	Potassium	9.97	1000	5000	ug/L	U	SW6010B
	Sodium	3.80	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2286001

Sequence: 2J28512

Lab Sample ID	Analyte	True	Found	%R	Units
2J28512-IFA1	Iron (dissolved)	200000	194,670.00	97.3	ug/L
	Manganese (dissolved)		-4.56		ug/L
2J28512-IFB1	Iron (dissolved)	200000	200,840.00	100	ug/L
	Manganese (dissolved)	500.0	493.37	98.7	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2296003
Sequence: 2J29611

Lab Sample ID	Analyte	True	Found	%R	Units
2J29611-IFA1	Calcium	500000	486,520.00	97.3	ug/L
	Lead		0.89		ug/L
	Magnesium	500000	504,290.00	101	ug/L
	Potassium		-22.27		ug/L
	Sodium		40.53		ug/L
2J29611-IFB1	Calcium	500000	467,770.00	93.6	ug/L
	Lead	50.00	48.15	96.3	ug/L
	Magnesium	500000	498,680.00	99.7	ug/L
	Potassium		-19.66		ug/L
	Sodium		51.53		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J11024	Laboratory ID:	2J11024-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1053	105	80 - 120
Manganese (dissolved)	500.0	529.8	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J18011	Laboratory ID:	2J18011-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	4835	96.7	80 - 120
Lead	250.0	237.8	95.1	80 - 120
Magnesium	5000	4822	96.4	80 - 120
Potassium	5000	4643	92.9	80 - 120
Sodium	5000	4901	98.0	80 - 120

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_064

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	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_064

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

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
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
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
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	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_064

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

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
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
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
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	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_064

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Magnesium	279.0	-0.000013	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
Sodium	589.6	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_064

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
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
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	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_064

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Sodium	589.6	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_064

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 12/30/2011

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Potassium	15	100000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J11024 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-02	10/11/12 14:29	50.00	50.00
GW0749	1210056-04	10/11/12 14:29	50.00	50.00
GW0752	1210056-06	10/11/12 14:29	50.00	50.00
GW0758	1210056-08	10/11/12 14:29	50.00	50.00
GW0775	1210056-10	10/11/12 14:29	50.00	50.00
GW0776	1210056-12	10/11/12 14:29	50.00	50.00
GW0777	1210056-14	10/11/12 14:29	50.00	50.00
GW0838	1210056-16	10/11/12 14:29	50.00	50.00
GW0839	1210056-18	10/11/12 14:29	50.00	50.00
GW0840	1210056-20	10/11/12 14:29	50.00	50.00
GW0851	1210056-22	10/11/12 14:29	50.00	50.00
GW0852	1210056-24	10/11/12 14:29	50.00	50.00
GW0853	1210056-26	10/11/12 14:29	50.00	50.00
Blank	2J11024-BLK1	10/11/12 14:29	50.00	50.00
LCS	2J11024-BS1	10/11/12 14:29	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J18011 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/18/12 09:34	50.00	50.00
GW0749	1210056-03	10/18/12 09:34	50.00	50.00
GW0752	1210056-05	10/18/12 09:34	50.00	50.00
GW0758	1210056-07	10/18/12 09:34	50.00	50.00
GW0775	1210056-09	10/18/12 09:34	50.00	50.00
GW0776	1210056-11	10/18/12 09:34	50.00	50.00
GW0777	1210056-13	10/18/12 09:34	50.00	50.00
GW0838	1210056-15	10/18/12 09:34	50.00	50.00
GW0839	1210056-17	10/18/12 09:34	50.00	50.00
GW0840	1210056-19	10/18/12 09:34	50.00	50.00
GW0851	1210056-21	10/18/12 09:34	50.00	50.00
GW0852	1210056-23	10/18/12 09:34	50.00	50.00
GW0853	1210056-25	10/18/12 09:34	50.00	50.00
Blank	2J18011-BLK1	10/18/12 09:34	50.00	50.00
LCS	2J18011-BS1	10/18/12 09:34	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28512	Instrument:	ME-ICP
Calibration:	2286001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J28512-CAL1	10-11-12A-001	10/11/12 09:07
Cal Standard	2J28512-CAL2	10-11-12A-002	10/11/12 09:12
Cal Standard	2J28512-CAL3	10-11-12A-003	10/11/12 09:16
Cal Standard	2J28512-CAL4	10-11-12A-004	10/11/12 09:21
Cal Standard	2J28512-CAL5	10-11-12A-005	10/11/12 09:25
Cal Standard	2J28512-CAL6	10-11-12A-006	10/11/12 09:30
Initial Cal Check	2J28512-ICV1	10-11-12B-001	10/11/12 10:14
Initial Cal Blank	2J28512-ICB1	10-11-12B-002	10/11/12 10:21
Instrument RL Check	2J28512-CRL1	10-11-12B-003	10/11/12 10:26
Interference Check A	2J28512-IFA1	10-11-12B-006	10/11/12 10:59
Interference Check B	2J28512-IFB1	10-11-12B-007	10/11/12 11:03
Calibration Check	2J28512-CCV1	10-11-12B-009	10/11/12 11:14
Calibration Blank	2J28512-CCB1	10-11-12B-010	10/11/12 11:21
Calibration Check	2J28512-CCV5	101112D-013	10/11/12 16:05
Calibration Blank	2J28512-CCB5	101112D-014	10/11/12 16:13
Blank	2J11024-BLK1	101112D-015	10/11/12 16:17
LCS	2J11024-BS1	101112D-016	10/11/12 16:22
GW0748	1210056-02	101112D-017	10/11/12 16:28
GW0749	1210056-04	101112D-018	10/11/12 16:32
GW0752	1210056-06	101112D-019	10/11/12 16:37
GW0758	1210056-08	101112D-020	10/11/12 16:41
GW0775	1210056-10	101112D-021	10/11/12 16:46
GW0776	1210056-12	101112D-022	10/11/12 16:50
GW0777	1210056-14	101112D-023	10/11/12 16:55
GW0838	1210056-16	101112D-024	10/11/12 16:59
GW0839	1210056-18	101112D-025	10/11/12 17:04
GW0840	1210056-20	101112D-026	10/11/12 17:08
Calibration Check	2J28512-CCV6	101112D-027	10/11/12 17:14
Calibration Blank	2J28512-CCB6	101112D-028	10/11/12 17:21
GW0851	1210056-22	101112D-029	10/11/12 17:25
GW0852	1210056-24	101112D-030	10/11/12 17:30
GW0853	1210056-26	101112D-031	10/11/12 17:34

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J28512	Instrument:	ME-ICP
Calibration:	2286001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J28512-CCV7	101112D-042	10/11/12 18:25
Calibration Blank	2J28512-CCB7	101112D-043	10/11/12 18:32

ANALYSIS SEQUENCE SUMMARY
SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29611	Instrument:	ME-ICP
Calibration:	2296003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29611-CAL1	101912A-012	10/19/12 09:30
Cal Standard	2J29611-CAL2	101912A-013	10/19/12 09:34
Cal Standard	2J29611-CAL3	101912A-014	10/19/12 09:39
Cal Standard	2J29611-CAL5	101912A-016	10/19/12 09:47
Cal Standard	2J29611-CAL6	101912A-017	10/19/12 09:54
Cal Standard	2J29611-CAL7	101912A-018	10/19/12 09:59
Cal Standard	2J29611-CAL8	101912A-019	10/19/12 10:04
Initial Cal Check	2J29611-ICV1	101912B-100	10/19/12 10:38
Initial Cal Blank	2J29611-ICB1	101912B-101	10/19/12 10:45
Instrument RL Check	2J29611-CRL1	101912B-102	10/19/12 10:49
Interference Check A	2J29611-IFA1	101912B-104	10/19/12 10:59
Interference Check B	2J29611-IFB1	101912B-105	10/19/12 11:05
Calibration Check	2J29611-CCV1	101912B-107	10/19/12 11:15
Calibration Blank	2J29611-CCB1	101912B-108	10/19/12 11:23
Calibration Check	2J29611-CCV3	101912B-130	10/19/12 13:12
Calibration Blank	2J29611-CCB3	101912B-131	10/19/12 13:19
Blank	2J18011-BLK1	101912B-132	10/19/12 13:24
LCS	2J18011-BS1	101912B-133	10/19/12 13:28
GW0748	1210056-01	101912B-146	10/19/12 14:29
GW0749	1210056-03	101912B-147	10/19/12 14:33
GW0752	1210056-05	101912B-148	10/19/12 14:38
Calibration Check	2J29611-CCV4	101912B-149	10/19/12 14:43
Calibration Blank	2J29611-CCB4	101912B-150	10/19/12 14:51
GW0758	1210056-07	101912B-151	10/19/12 14:55
GW0775	1210056-09	101912B-152	10/19/12 15:00
GW0776	1210056-11	101912B-153	10/19/12 15:04
GW0777	1210056-13	101912B-154	10/19/12 15:08
GW0838	1210056-15	101912B-155	10/19/12 15:13
GW0839	1210056-17	101912B-156	10/19/12 15:17
GW0840	1210056-19	101912B-157	10/19/12 15:22
GW0851	1210056-21	101912B-158	10/19/12 15:26
GW0852	1210056-23	101912B-159	10/19/12 15:31

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29611	Instrument:	ME-ICP
Calibration:	2296003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0853	1210056-25	101912B-160	10/19/12 15:35
Calibration Check	2J29611-CCV5	101912B-161	10/19/12 15:41
Calibration Blank	2J29611-CCB5	101912B-162	10/19/12 15:48

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2286001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/11/12 9:07 10/11/12 9:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.1174E-05	10000	2.0832E-05			500000	2.056E-05		
Antimony	0	0	100	0.0005807	1000	6.2081E-04					10000	6.2297E-04
Arsenic	0	0	100	0.0003159	1000	3.4075E-04					10000	3.3706E-04
Barium	0	0	50	0.0110258	1000	0.010481	5000	0.010868				
Beryllium	0	0	100	0.0020912	1000	0.0020694					10000	0.0020503
Boron	0	0	50	0.0000166	1000	1.515E-05					5000	1.502E-05
Cadmium	0	0	100	0.016781	1000	0.016998					10000	0.016389
Calcium	0	0	1100	5.947273E-05	50000	5.681E-05					10000	
Chromium	0	0	100	0.0000475	1000	4.441E-05					10000	4.5402E-05
Cobalt	0	0	100	0.0045329	1000	0.0044704					10000	0.0045814
Copper	0	0	100	0.0000679	1000	6.022E-05					10000	6.0462E-05
Iron	0	0	5100	1.871961E-05	10000	1.7708E-05			500000	1.73112E-05	10000	
Lead	0	0	100	0.0011777	1000	0.0011291					10000	0.0011688
Magnesium	0	0	5100		50000	1.9674E-06			500000	2.007E-06	10000	
Manganese	0	0	100	0.0002451	1000	2.3374E-04	10000	0.0002313			10000	
Molybdenum	0	0	100	0.0034202	1000	0.0035415					10000	0.0035407
Nickel	0	0	100	0.0031907	1000	0.0031707					10000	0.0032323
Potassium	0	0	1000	1.285E-05	10000	1.438E-05						
Selenium	0	0	100	0.0003294	1000	3.3638E-04					10000	0.0003306
Silver	0	0	20	0.0000575	500	5.218E-05	2000	5.504E-05				
Sodium	0	0	1000		50000	5.2472E-05						
Strontium	0	0	100	0.001274	1000	0.001249					10000	0.00125
Thallium	0	0	100	0.0007564	1000	7.4128E-04					10000	7.5844E-04
Tin	0	0	50	0.0011736	1000	0.0012238					5000	1.23414E-03
Titanium	0	0	100	0.0001424	1000	1.4032E-04					10000	1.4224E-04
Vanadium	0	0	100	0.0000313	1000	2.986E-05					10000	3.0139E-05
Zinc	0	0	100	0.006863	1000	0.0069527					10000	0.0068989

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2286001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/11/12 9:07 10/11/12 9:40

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	5.478E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.9214E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.4812E-05										
Selenium												
Silver												
Sodium	100000	5.2431E-05	500000	5.127E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_064	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2286001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	10/11/12 9:07	10/11/12 9:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.56415E-05	66.68601	4.662283	179.2486	0.9999999		0.998	
Antimony	4.5612E-04	66.80272	8.598315	194.149	0.9999999		0.998	
Arsenic	2.484275E-04	66.81219	11.40951	190.9109	0.9999977		0.998	
Barium	0.0080937	66.72662	2.376698	185.1217	0.9999432		0.998	
Beryllium	1.552725E-03	66.67535	17.40918	197.1338	0.9999993		0.998	
Boron	1.16925E-05	66.94743	1.211318	112.536	0.9999993		0.998	
Cadmium	0.012542	66.69694	2.105415	170.2224	0.999987		0.998	
Calcium	4.276568E-05	66.81792	0.9408975	122.8028	0.9999869		0.998	
Chromium	3.4328E-05	66.77219	1.691597	142.9888	0.999994		0.998	
Cobalt	3.396175E-03	66.68009	3.112737	188.8304	0.9999941		0.998	
Copper	4.71455E-05	67.09407	0.5668175	94.665	0.999998		0.998	
Iron	1.34347E-05	66.81262	55.84748	198.079	0.9999995		0.998	
Lead	0.0008689	66.71099	5.057645	186.0446	0.9999878		0.998	
Magnesium	1.47395E-06	66.70889	281.0327	199.8266	0.9999279		0.998	
Manganese	1.77535E-04	66.75266	10.14978	191.637	0.9999991		0.998	
Molybdenum	0.0026256	66.702	3.094433	185.6451	0.9999999		0.998	
Nickel	2.398425E-03	66.67525	12.83877	197.5904	0.9999966		0.998	
Potassium	1.05105E-05	67.14599	3.71411	178.6721	0.9999972		0.998	
Selenium	2.49095E-04	66.67789	27.2853	196.6579	0.999997		0.998	
Silver	4.118E-05	66.87536	6.507305	180.9652	0.9997998		0.998	
Sodium	3.904325E-05	66.68194	15.83411	190.4709	0.9999802		0.998	
Strontium	9.4325E-04	66.67792	2.556025	136.7421	0.9999999		0.998	
Thallium	5.6403E-04	66.68047	14.6769	196.4601	0.9999951		0.998	
Tin	9.07885E-04	66.73025	3.386367	167.4119	0.999998		0.998	
Titanium	1.0624E-04	66.6726	20.61805	195.4864	0.9999982		0.998	
Vanadium	2.282475E-05	66.72262	12.71737	187.1281	0.9999986		0.998	
Zinc	5.17865E-03	66.67047	2.583225	181.6618	0.9999994		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2296003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/19/12 9:30 10/19/12 10:04

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	2.3968E-05	10000	2.3571E-05			500000	2.3272E-05		
Antimony	0	0	100	0.000371	1000	0.0004272					10000	4.2388E-04
Arsenic	0	0	100	0.0001905	1000	2.1601E-04					10000	2.0929E-04
Barium	0	0	50	0.0067682	1000	0.0065661	5000	0.0069196				
Beryllium	0	0	100	0.0020627	1000	0.0020375					10000	0.0019582
Boron	0	0	50	0.0000146	1000	1.386E-05					5000	1.3786E-05
Cadmium	0	0	100	0.013837	1000	0.013926					10000	0.013467
Calcium	0	0	1100	0.000053	50000	4.918E-05					10000	
Chromium	0	0	100	0.0000447	1000	4.236E-05					10000	4.256E-05
Cobalt	0	0	100	0.0040607	1000	0.004003					10000	0.0040986
Copper	0	0	100	0.0000506	1000	4.609E-05					10000	4.5246E-05
Iron	0	0	5100	1.964706E-05	10000	1.8323E-05			500000	1.7396E-05	10000	
Lead	0	0	100	0.001017	1000	9.9372E-04					10000	0.001024
Magnesium	0	0	5100		50000	1.7136E-06			500000	1.71258E-06	10000	
Manganese	0	0	100	0.0002564	1000	2.4058E-04	10000	2.3699E-04			10000	
Molybdenum	0	0	100	0.0029492	1000	0.0030482					10000	0.0030619
Nickel	0	0	100	0.0021234	1000	0.0021348					10000	0.0021371
Potassium	0	0	1000	1.504E-05	10000	1.5262E-05						
Selenium	0	0	100	0.0003018	1000	3.0993E-04					10000	3.0416E-04
Silver	0	0	20	0.000064	500	5.866E-05	2000	6.143E-05				
Sodium	0	0	1000		50000	2.875E-05						
Strontium	0	0	100	0.001632	1000	0.00159					10000	0.001564
Thallium	0	0	100	0.0004115	1000	4.1897E-04					10000	4.2032E-04
Tin	0	0	50	0.0010256	1000	0.0010532					5000	1.06414E-03
Titanium	0	0	100	0.0001781	1000	1.7271E-04					10000	0.0001712
Vanadium	0	0	100	0.0000419	1000	4.037E-05					10000	4.0612E-05
Zinc	0	0	100	0.0055325	1000	0.0056017					10000	0.0056109

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2296003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/19/12 9:30 10/19/12 10:04

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	4.8206E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.7051E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5796E-05										
Selenium												
Silver												
Sodium	100000	2.7549E-05	500000	2.791E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2296003	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	10/19/12 9:30	10/19/12 10:04	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.770275E-05	66.68611	9.060383	186.1332	0.9999999		0.998	
Antimony	3.0552E-04	67.19716	1.727518	136.7625	0.9999966		0.998	
Arsenic	1.5395E-04	67.03449	3.005785	153.7641	0.9999847		0.998	
Barium	5.063475E-03	66.72798	1.236395	156.7551	0.9998876		0.998	
Beryllium	0.0015146	66.73145	105.0032	199.211	0.9999852		0.998	
Boron	1.05615E-05	66.75743	2.988005	161.3999	0.9999996		0.998	
Cadmium	0.0103075	66.69454	1.072547	167.441	0.9999891		0.998	
Calcium	3.75965E-05	66.8934	1.910725	120.2516	0.9999963		0.998	
Chromium	3.2405E-05	66.74673	5.926642	174.8137	0.9999993		0.998	
Cobalt	3.040575E-03	66.6792	1.44022	182.1389	0.9999945		0.998	
Copper	3.5484E-05	66.99491	0.76498	65.30364	0.999999		0.998	
Iron	1.384151E-05	66.9999	27.13905	194.8612	0.9999987		0.998	
Lead	7.5868E-04	66.68849	77.34599	199.3417	0.9999913		0.998	
Magnesium	1.28282E-06	66.66732	14.38823	195.9145	0.9999991		0.998	
Manganese	1.834925E-04	66.82486	3.85612	146.5174	0.9999982		0.998	
Molybdenum	2.264825E-03	66.70352	2.978605	188.9485	0.9999998		0.998	
Nickel	1.598825E-03	66.66772	43.98533	199.3312	1		0.998	
Potassium	1.15245E-05	66.72349	4.42133	181.6554	0.9999917		0.998	
Selenium	2.289725E-04	66.68335	16.87454	191.7373	0.9999964		0.998	
Silver	4.60225E-05	66.83482	2.480098	124.9053	0.9998495		0.998	
Sodium	2.105225E-05	66.70949	4.551658	183.2922	0.9999753		0.998	
Strontium	0.0011965	66.70777	1.489925	127.9263	0.9999975		0.998	
Thallium	3.126975E-04	66.67821	5.24204	181.2152	0.9999999		0.998	
Tin	7.85735E-04	66.6986	5.088217	185.8028	0.9999964		0.998	
Titanium	1.305025E-04	66.70528	11.28529	194.038	0.9999994		0.998	
Vanadium	3.07205E-05	66.70249	5.88304	179.3065	0.9999994		0.998	
Zinc	4.186275E-03	66.67191	7.389105	194.261	1		0.998	

Data for Wet Chemistry Forms

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J08008	250.00/200.00	220	200	1.00		10/08/12

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-03 [GW0749]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-05 [GW0752]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-07 [GW0758]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-09 [GW0775]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-11 [GW0776]	2J08012	250.00/200.00	220	200	1.00		10/08/12
1210056-13 [GW0777]	2J08012	250.00/200.00	270	200	1.00		10/08/12
1210056-15 [GW0838]	2J08012	250.00/200.00	270	200	1.00		10/08/12
1210056-17 [GW0839]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-19 [GW0840]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-21 [GW0851]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-23 [GW0852]	2J08012	250.00/200.00	295	200	1.00		10/08/12
1210056-25 [GW0853]	2J08012	250.00/200.00	295	200	1.00		10/08/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J10029	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-03 [GW0749]	2J10029	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-05 [GW0752]	2J10029	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-07 [GW0758]	2J10029	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-09 [GW0775]	2J10029	5.00/5.00	5.00	5.00	1.00		10/10/12
1210056-11 [GW0776]	2J10029	5.00/5.00	5.00	5.00	1.00		10/10/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-13 [GW0777]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12
1210056-15 [GW0838]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12
1210056-17 [GW0839]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12
1210056-19 [GW0840]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12
1210056-21 [GW0851]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12
1210056-23 [GW0852]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12
1210056-25 [GW0853]	2J11014	5.00/5.00	5.00	5.00	1.00		10/11/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-03 [GW0749]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-05 [GW0752]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-07 [GW0758]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-09 [GW0775]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-11 [GW0776]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-13 [GW0777]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-15 [GW0838]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-17 [GW0839]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-19 [GW0840]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-21 [GW0851]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-23 [GW0852]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12
1210056-25 [GW0853]	2J16010	25.00/25.00	25.0	25.0	1.00		10/16/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-03 [GW0749]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-05 [GW0752]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-07 [GW0758]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-09 [GW0775]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-11 [GW0776]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-13 [GW0777]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-15 [GW0838]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-17 [GW0839]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-19 [GW0840]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-21 [GW0851]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-23 [GW0852]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12
1210056-25 [GW0853]	2J18021	20.00/20.00	4.00	20.0	1.00		10/18/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210056-01 [GW0748]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-03 [GW0749]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-05 [GW0752]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-07 [GW0758]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-09 [GW0775]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-11 [GW0776]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-13 [GW0777]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-15 [GW0838]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-17 [GW0839]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-19 [GW0840]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-21 [GW0851]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-23 [GW0852]	2J22002	100.00/100.00	100	100	1.00		10/22/12
1210056-25 [GW0853]	2J22002	100.00/100.00	100	100	1.00		10/22/12

ANALYSIS DATA SHEET

GW0748

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-01
Sampled:	10/03/12 11:00	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**0.116**	0.110	0.150	0.300	1	J	SM4500NH3BG	2J22002	10/22/12 14:11
18496-25-8	Sulfide		0.909	2.27	4.55	1	U	SM4500S2CF	2J08008	10/08/12 10:24
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**105**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 11:10
16887-00-6	Chloride	**25.3**	0.170	0.330	0.500	1		E300.0	2J10029	10/10/12 23:56
NA	Nitrate/Nitrite as N	**0.544**	0.250	0.750	1.50	1	J	E353.2	2J18021	10/18/12 14:55
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 11:10
14808-79-8	Sulfate as SO4	**36.4**	0.330	1.00	2.50	1	M	E300.0	2J10029	10/10/12 23:56

ANALYSIS DATA SHEET

GW0749

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-03
Sampled:	10/03/12 12:17	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:13
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:16
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**88.4**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 11:16
16887-00-6	Chloride	**43.8**	0.170	0.330	0.500	1		E300.0	2J10029	10/11/12 01:58
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:00
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 11:16
14808-79-8	Sulfate as SO4	**33.2**	0.330	1.00	2.50	1	M	E300.0	2J10029	10/11/12 01:58

ANALYSIS DATA SHEET

GW0752

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-05
Sampled:	10/03/12 09:10	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:15
18496-25-8	Sulfide	**0.678**	0.678	1.69	3.39	1	J	SM4500S2CF	2J08012	10/08/12 15:18
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**94.9**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 11:25
16887-00-6	Chloride	**25.6**	0.170	0.330	0.500	1		E300.0	2J10029	10/11/12 02:15
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:01
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 11:25
14808-79-8	Sulfate as SO4	**26.9**	0.330	1.00	2.50	1	M	E300.0	2J10029	10/11/12 02:15

ANALYSIS DATA SHEET

GW0758

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-07
Sampled:	10/04/12 13:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:16
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:23
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**250**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 11:36
16887-00-6	Chloride	**11.2**	0.170	0.330	0.500	1		E300.0	2J10029	10/11/12 02:32
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:03
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 11:36
14808-79-8	Sulfate as SO4	**32.7**	0.330	1.00	2.50	1	M	E300.0	2J10029	10/11/12 02:32

ANALYSIS DATA SHEET

GW0775

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-09
Sampled:	10/04/12 15:56	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:17
18496-25-8	Sulfide	**0.678**	0.678	1.69	3.39	1	J	SM4500S2CF	2J08012	10/08/12 15:25
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**130**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 11:50
16887-00-6	Chloride	**24.0**	0.170	0.330	0.500	1		E300.0	2J10029	10/11/12 02:50
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:04
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 11:50
14808-79-8	Sulfate as SO4	**113**	0.330	1.00	2.50	1	M	E300.0	2J10029	10/11/12 02:50

ANALYSIS DATA SHEET

GW0776

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-11
Sampled:	10/04/12 10:31	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:18
18496-25-8	Sulfide		0.909	2.27	4.55	1	U	SM4500S2CF	2J08012	10/08/12 15:32
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**128**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:09
16887-00-6	Chloride	**25.4**	0.170	0.330	0.500	1		E300.0	2J10029	10/11/12 03:07
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:06
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:09
14808-79-8	Sulfate as SO4	**120**	0.330	1.00	2.50	1	M	E300.0	2J10029	10/11/12 03:07

ANALYSIS DATA SHEET

GW0777

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-13
Sampled:	10/04/12 10:31	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:19
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2J08012	10/08/12 15:36
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**98.9**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:15
16887-00-6	Chloride	**29.0**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 15:55
NA	Nitrate/Nitrite as N	**0.644**	0.250	0.750	1.50	1	J	E353.2	2J18021	10/18/12 15:07
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:15
14808-79-8	Sulfate as SO4	**58.0**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 15:55

ANALYSIS DATA SHEET

GW0838

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-15
Sampled:	10/03/12 16:05	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:20
18496-25-8	Sulfide	**1.04**	0.741	1.85	3.70	1	J	SM4500S2CF	2J08012	10/08/12 15:40
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**145**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:22
16887-00-6	Chloride	**32.1**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 16:13
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:08
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:22
14808-79-8	Sulfate as SO4	**52.9**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 16:13

ANALYSIS DATA SHEET

GW0839

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-17
Sampled:	10/03/12 14:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:21
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:42
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**122**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:29
16887-00-6	Chloride	**87.3**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 16:30
NA	Nitrate/Nitrite as N	**7.64**	0.250	0.750	1.50	1		E353.2	2J18021	10/18/12 15:13
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:29
14808-79-8	Sulfate as SO4	**91.7**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 16:30

ANALYSIS DATA SHEET

GW0840

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-19
Sampled:	10/03/12 11:38	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:22
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:44
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**101**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:37
16887-00-6	Chloride	**7.08**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 16:47
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:14
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:37
14808-79-8	Sulfate as SO4	**28.9**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 16:47

ANALYSIS DATA SHEET

GW0851

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-21
Sampled:	10/04/12 15:37	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**0.224**	0.110	0.150	0.300	1	J	SM4500NH3BG	2J22002	10/22/12 14:25
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:49
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**155**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:43
16887-00-6	Chloride	**31.1**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 18:49
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:16
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:43
14808-79-8	Sulfate as SO4	**44.8**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 18:49

ANALYSIS DATA SHEET

GW0852

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-23
Sampled:	10/04/12 13:22	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:26
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:51
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**136**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 12:50
16887-00-6	Chloride	**12.9**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 13:36
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:17
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 12:50
14808-79-8	Sulfate as SO4	**37.4**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 13:36

ANALYSIS DATA SHEET

GW0853

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210056-25
Sampled:	10/04/12 11:07	Received:	10/05/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J22002	10/22/12 14:27
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2J08012	10/08/12 15:55
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**103**	1.00	1.00	1.00	1		SM2320B	2J16010	10/16/12 13:05
16887-00-6	Chloride	**7.59**	0.170	0.330	1.00	1	M	E300.0	2J11014	10/11/12 19:07
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2J18021	10/18/12 15:19
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2J16010	10/16/12 13:05
14808-79-8	Sulfate as SO4	**28.9**	0.330	1.00	2.50	1	M	E300.0	2J11014	10/11/12 19:07

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_064
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2E13609

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2E13609-ICV1	Chloride	4.800	4.613	96.1	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.62	98.4	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_064
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2J29201

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J29201-CCV1	Chloride	25.00	26.83	107	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.49	110	mg/L	+/- 10.00%
2J29201-CCV2	Chloride	25.00	26.32	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.75	107	mg/L	+/- 10.00%
2J29201-CCV3	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.91	108	mg/L	+/- 10.00%
2J29201-CCV4	Chloride	25.00	26.61	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.97	108	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_064
Project: Kirtland AFB 2011
Calibration: 2292003
Sequence: 2J29208

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J29208-ICV1	Nitrate/Nitrite as N	1.200	1.245	104	mg/L	+/- 10.00%
2J29208-CCV1	Nitrate/Nitrite as N	1.200	1.277	106	mg/L	+/- 10.00%
2J29208-CCV2	Nitrate/Nitrite as N	1.200	1.269	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_064
Project: Kirtland AFB 2011
Calibration: 2296002
Sequence: 2J29613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J29613-ICV1	Ammonia as N	2.000	2.052	103	mg/L	+/- 10.00%
2J29613-CCV1	Ammonia as N	2.000	2.096	105	mg/L	+/- 10.00%
2J29613-CCV2	Ammonia as N	2.000	2.091	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_064
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2J29712

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J29712-CCV1	Chloride	25.00	25.56	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.50	106	mg/L	+/- 10.00%
2J29712-CCV2	Chloride	25.00	25.50	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.26	105	mg/L	+/- 10.00%
2J29712-CCV3	Chloride	25.00	25.77	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.33	105	mg/L	+/- 10.00%
2J29712-CCV4	Chloride	25.00	26.31	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.36	105	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2J29201

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2J29201-CRL1	Chloride	0.5000	0.6080	122	mg/L	75 - 125
2J29201-CRL3	Sulfate as SO4	2.500	2.210	88.4	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2J29712

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2J29712-CRL2	Chloride	1.000	1.128	113	mg/L	75 - 125
2J29712-CRL3	Sulfate as SO4	2.500	2.176	87.0	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J08008

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J08008-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J08012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J08012-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J10029

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J10029-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J11014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J11014-BLK1	Chloride	0.0260	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J16010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J16010-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J18021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J18021-BLK1	Nitrate/Nitrite as N	-0.0262	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J22002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J22002-BLK1	Ammonia as N	0.0736	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2E13609
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2E13609-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2J29201
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J29201-CCB1	Chloride	0.0330	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2J29201-CCB2	Chloride	0.0200	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2J29201-CCB3	Chloride	0.0260	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2J29201-CCB4	Chloride	0.0300	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2J29208
Calibration: 2292003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J29208-ICB1	Nitrate/Nitrite as N	-0.03200	0.0500	0.300	mg/L	U	E353.2
2J29208-CCB1	Nitrate/Nitrite as N	-0.0449	0.0500	0.300	mg/L	U	E353.2
2J29208-CCB2	Nitrate/Nitrite as N	-0.0485	0.0500	0.300	mg/L	U	E353.2

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2J29613
Calibration: 2296002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J29613-ICB1	Ammonia as N	0.001696	0.110	0.300	mg/L	U	SM4500NH3BG
2J29613-CCB1	Ammonia as N	-0.000329	0.110	0.300	mg/L	U	SM4500NH3BG
2J29613-CCB2	Ammonia as N	0.00356	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_064
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2J29712
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J29712-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2J29712-CCB2	Chloride	0.0250	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2J29712-CCB3	Chloride	0.0180	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2J29712-CCB4	Chloride	0.0210	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0852

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2J11014

% Solids:

Source Sample Name: **1210056-23**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	12.87	41.43	103		80 - 120
Sulfate as SO4	27.78	37.44	66.67	105		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	41.69	104	0.607		20	80 - 120
Sulfate as SO4	27.78	67.41	108	1.10		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0748

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2J18021

% Solids:

Source Sample Name: **1210056-01**

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	0.5445	3.228	107		90 - 110

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	3.231	107	0.108		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0748

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2J22002

% Solids:

Source Sample Name: **1210056-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	0.1164	4.923	96.1		75 - 125

GW0852

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2J11014
Preparation: pNone
Source Sample Name: GW0852

SDG: Kirtland_064
Project: Kirtland AFB 2011
Laboratory ID: 2J11014-DUP1
Lab Source ID: 1210056-23
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	12.9	12.83	0.335		E300.0
Sulfate as SO4	20	37.4	37.74	0.793		E300.0

GW0749

DUPLICATES

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2J22002
Preparation: pNone
Source Sample Name: GW0749

SDG: Kirtland_064
Project: Kirtland AFB 2011
Laboratory ID: 2J22002-DUP1
Lab Source ID: 1210056-03
Initial/Final: 100 mL / 100 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Ammonia as N	20	0.300 U	0.300 U			SM4500NH3BG

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J08008	Laboratory ID:	2J08008-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1083	1083	100	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J08012	Laboratory ID:	2J08012-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1083	1117	103	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1083	1034	95.5	7.71	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J10029	Laboratory ID:	2J10029-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.896	102	90 - 110
Sulfate as SO4	24.00	24.94	104	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J11014	Laboratory ID:	2J11014-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.887	102	90 - 110
Sulfate as SO4	24.00	25.14	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J16010	Laboratory ID:	2J16010-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1019	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J18021	Laboratory ID:	2J18021-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	15.42	109	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J22002	Laboratory ID:	2J22002-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	4.942	98.8	80 - 120

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J08008 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/08/12 08:47	220.00	200.00
Blank	2J08008-BLK1	10/08/12 08:47	250.00	200.00
LCS	2J08008-BS1	10/08/12 08:47	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J08012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0749	1210056-03	10/08/12 09:30	295.00	200.00
GW0752	1210056-05	10/08/12 09:30	295.00	200.00
GW0758	1210056-07	10/08/12 09:30	295.00	200.00
GW0775	1210056-09	10/08/12 09:30	295.00	200.00
GW0776	1210056-11	10/08/12 09:30	220.00	200.00
GW0777	1210056-13	10/08/12 09:30	270.00	200.00
GW0838	1210056-15	10/08/12 09:30	270.00	200.00
GW0839	1210056-17	10/08/12 09:30	295.00	200.00
GW0840	1210056-19	10/08/12 09:30	295.00	200.00
GW0851	1210056-21	10/08/12 09:30	295.00	200.00
GW0852	1210056-23	10/08/12 09:30	295.00	200.00
GW0853	1210056-25	10/08/12 09:30	295.00	200.00
Blank	2J08012-BLK1	10/08/12 09:30	250.00	200.00
LCS	2J08012-BS1	10/08/12 09:30	3.00	250.00
LCS Dup	2J08012-BSD1	10/08/12 09:30	3.00	250.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J10029 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/10/12 14:07	5.00	5.00
GW0749	1210056-03	10/10/12 14:07	5.00	5.00
GW0752	1210056-05	10/10/12 14:07	5.00	5.00
GW0758	1210056-07	10/10/12 14:07	5.00	5.00
GW0775	1210056-09	10/10/12 14:07	5.00	5.00
GW0776	1210056-11	10/10/12 14:07	5.00	5.00
Blank	2J10029-BLK1	10/10/12 14:07	5.00	5.00
LCS	2J10029-BS1	10/10/12 14:07	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J11014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0777	1210056-13	10/11/12 11:00	5.00	5.00
GW0838	1210056-15	10/11/12 11:00	5.00	5.00
GW0839	1210056-17	10/11/12 11:00	5.00	5.00
GW0840	1210056-19	10/11/12 11:00	5.00	5.00
GW0851	1210056-21	10/11/12 11:00	5.00	5.00
GW0852	1210056-23	10/11/12 11:00	5.00	5.00
GW0853	1210056-25	10/11/12 11:00	5.00	5.00
Blank	2J11014-BLK1	10/11/12 11:00	5.00	5.00
LCS	2J11014-BS1	10/11/12 11:00	5.00	5.00
GW0852	2J11014-DUP1	10/11/12 11:00	5.00	5.00
GW0852	2J11014-MS1	10/11/12 11:00	22.50	25.00
GW0852	2J11014-MSD1	10/11/12 11:00	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J16010 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/16/12 09:49	25.00	25.00
GW0749	1210056-03	10/16/12 09:49	25.00	25.00
GW0752	1210056-05	10/16/12 09:49	25.00	25.00
GW0758	1210056-07	10/16/12 09:49	25.00	25.00
GW0775	1210056-09	10/16/12 09:49	25.00	25.00
GW0776	1210056-11	10/16/12 09:49	25.00	25.00
GW0777	1210056-13	10/16/12 09:49	25.00	25.00
GW0838	1210056-15	10/16/12 09:49	25.00	25.00
GW0839	1210056-17	10/16/12 09:49	25.00	25.00
GW0840	1210056-19	10/16/12 09:49	25.00	25.00
GW0851	1210056-21	10/16/12 09:49	25.00	25.00
GW0852	1210056-23	10/16/12 09:49	25.00	25.00
GW0853	1210056-25	10/16/12 09:49	25.00	25.00
Blank	2J16010-BLK1	10/16/12 09:49	25.00	25.00
LCS	2J16010-BS1	10/16/12 09:49	5.00	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J18021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/18/12 13:34	4.00	20.00
GW0749	1210056-03	10/18/12 13:34	4.00	20.00
GW0752	1210056-05	10/18/12 13:34	4.00	20.00
GW0758	1210056-07	10/18/12 13:34	4.00	20.00
GW0775	1210056-09	10/18/12 13:34	4.00	20.00
GW0776	1210056-11	10/18/12 13:34	4.00	20.00
GW0777	1210056-13	10/18/12 13:34	4.00	20.00
GW0838	1210056-15	10/18/12 13:34	4.00	20.00
GW0839	1210056-17	10/18/12 13:34	4.00	20.00
GW0840	1210056-19	10/18/12 13:34	4.00	20.00
GW0851	1210056-21	10/18/12 13:34	4.00	20.00
GW0852	1210056-23	10/18/12 13:34	4.00	20.00
GW0853	1210056-25	10/18/12 13:34	4.00	20.00
Blank	2J18021-BLK1	10/18/12 13:34	20.00	20.00
LCS	2J18021-BS1	10/18/12 13:34	1.00	20.00
GW0748	2J18021-MS2	10/18/12 13:34	4.00	20.00
GW0748	2J18021-MSD2	10/18/12 13:34	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_064

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

Batch: 2J22002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0748	1210056-01	10/22/12 05:49	100.00	100.00
GW0749	1210056-03	10/22/12 05:49	100.00	100.00
GW0752	1210056-05	10/22/12 05:49	100.00	100.00
GW0758	1210056-07	10/22/12 05:49	100.00	100.00
GW0775	1210056-09	10/22/12 05:49	100.00	100.00
GW0776	1210056-11	10/22/12 05:49	100.00	100.00
GW0777	1210056-13	10/22/12 05:49	100.00	100.00
GW0838	1210056-15	10/22/12 05:49	100.00	100.00
GW0839	1210056-17	10/22/12 05:49	100.00	100.00
GW0840	1210056-19	10/22/12 05:49	100.00	100.00
GW0851	1210056-21	10/22/12 05:49	100.00	100.00
GW0852	1210056-23	10/22/12 05:49	100.00	100.00
GW0853	1210056-25	10/22/12 05:49	100.00	100.00
Blank	2J22002-BLK1	10/22/12 05:49	100.00	100.00
LCS	2J22002-BS1	10/22/12 05:49	100.00	100.00
GW0749	2J22002-DUP1	10/22/12 05:49	100.00	100.00
GW0748	2J22002-MS1	10/22/12 05:49	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2J16010-BS1	101612-002	10/16/12 10:15
Blank	2J16010-BLK1	101612-003	10/16/12 10:27

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_064

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2J08008-BS1	101012-001	10/08/12 10:00
Blank	2J08008-BLK1	101012-002	10/08/12 10:02
LCS	2J08012-BS1	100812a-001	10/08/12 15:10
LCS Dup	2J08012-BSD1	100812a-002	10/08/12 15:12
Blank	2J08012-BLK1	100812a-003	10/08/12 15:14

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2E13609	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2E13609-CAL1	051412-010	05/14/12 18:29
Cal Standard	2E13609-CAL2	051412-011	05/14/12 18:46
Cal Standard	2E13609-CAL3	051412-012	05/14/12 19:04
Cal Standard	2E13609-CAL4	051412-013	05/14/12 19:21
Cal Standard	2E13609-CAL5	051412-014	05/14/12 19:38
Cal Standard	2E13609-CAL6	051412-015	05/14/12 19:56
Cal Standard	2E13609-CAL7	051412-016	05/14/12 20:13
Cal Standard	2E13609-CAL8	051412-017	05/14/12 20:31
Initial Cal Check	2E13609-ICV1	051412-018	05/14/12 20:48
Initial Cal Blank	2E13609-ICB1	051412-019	05/14/12 21:06

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29201	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J29201-CCV1	101012-003	10/10/12 16:58
Calibration Blank	2J29201-CCB1	101012-004	10/10/12 17:15
Instrument RL Check	2J29201-CRL1	101012-005	10/10/12 17:33
Instrument RL Check	2J29201-CRL3	101012-007	10/10/12 18:08
LCS	2J10029-BS1	101012-008	10/10/12 18:25
Blank	2J10029-BLK1	101012-009	10/10/12 18:42
Calibration Check	2J29201-CCV2	101012-020	10/10/12 21:54
Calibration Blank	2J29201-CCB2	101012-021	10/10/12 22:11
GW0748	1210056-01	101012-027	10/10/12 23:56
Calibration Check	2J29201-CCV3	101012-032	10/11/12 01:23
Calibration Blank	2J29201-CCB3	101012-033	10/11/12 01:40
GW0749	1210056-03	101012-034	10/11/12 01:58
GW0752	1210056-05	101012-035	10/11/12 02:15
GW0758	1210056-07	101012-036	10/11/12 02:32
GW0775	1210056-09	101012-037	10/11/12 02:50
GW0776	1210056-11	101012-038	10/11/12 03:07
Calibration Check	2J29201-CCV4	101012-043	10/11/12 04:34
Calibration Blank	2J29201-CCB4	101012-044	10/11/12 04:52

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29208	Instrument:	WC-Lachat
Calibration:	2292003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29208-CAL1	M_10-18-2012_02-32-05PM-0	10/18/12 14:34
Cal Standard	2J29208-CAL2	M_10-18-2012_02-32-05PM-0	10/18/12 14:35
Cal Standard	2J29208-CAL3	M_10-18-2012_02-32-05PM-0	10/18/12 14:37
Cal Standard	2J29208-CAL4	M_10-18-2012_02-32-05PM-0	10/18/12 14:38
Cal Standard	2J29208-CAL5	M_10-18-2012_02-32-05PM-0	10/18/12 14:39
Cal Standard	2J29208-CAL6	M_10-18-2012_02-32-05PM-0	10/18/12 14:41
Cal Standard	2J29208-CAL7	M_10-18-2012_02-32-05PM-0	10/18/12 14:42
Cal Standard	2J29208-CAL8	M_10-18-2012_02-32-05PM-0	10/18/12 14:44
Initial Cal Check	2J29208-ICV1	M_10-18-2012_02-32-05PM-0	10/18/12 14:45
Initial Cal Blank	2J29208-ICB1	M_10-18-2012_02-32-05PM-0	10/18/12 14:47
Blank	2J18021-BLK1	M_10-18-2012_02-32-05PM-0	10/18/12 14:50
LCS	2J18021-BS1	M_10-18-2012_02-32-05PM-0	10/18/12 14:51
GW0748	1210056-01	M_10-18-2012_02-32-05PM-0	10/18/12 14:55
GW0749	1210056-03	M_10-18-2012_02-32-05PM-0	10/18/12 15:00
GW0752	1210056-05	M_10-18-2012_02-32-05PM-0	10/18/12 15:01
GW0758	1210056-07	M_10-18-2012_02-32-05PM-0	10/18/12 15:03
GW0775	1210056-09	M_10-18-2012_02-32-05PM-0	10/18/12 15:04
GW0776	1210056-11	M_10-18-2012_02-32-05PM-0	10/18/12 15:06
GW0777	1210056-13	M_10-18-2012_02-32-05PM-0	10/18/12 15:07
GW0838	1210056-15	M_10-18-2012_02-32-05PM-0	10/18/12 15:08
Calibration Check	2J29208-CCV1	M_10-18-2012_02-32-05PM-0	10/18/12 15:10
Calibration Blank	2J29208-CCB1	M_10-18-2012_02-32-05PM-0	10/18/12 15:11
GW0839	1210056-17	M_10-18-2012_02-32-05PM-0	10/18/12 15:13
GW0840	1210056-19	M_10-18-2012_02-32-05PM-0	10/18/12 15:14
GW0851	1210056-21	M_10-18-2012_02-32-05PM-0	10/18/12 15:16
GW0852	1210056-23	M_10-18-2012_02-32-05PM-0	10/18/12 15:17
GW0853	1210056-25	M_10-18-2012_02-32-05PM-0	10/18/12 15:19
GW0748	2J18021-MS2	M_10-18-2012_02-32-05PM-0	10/18/12 15:22
GW0748	2J18021-MSD2	M_10-18-2012_02-32-05PM-0	10/18/12 15:23
Calibration Check	2J29208-CCV2	M_10-18-2012_02-32-05PM-0	10/18/12 15:24
Calibration Blank	2J29208-CCB2	M_10-18-2012_02-32-05PM-0	10/18/12 15:26

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29613	Instrument:	WC-Lachat
Calibration:	2296002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29613-CAL1	M_10-22-2012_01-59-04PM-0	10/22/12 14:00
Cal Standard	2J29613-CAL2	M_10-22-2012_01-59-04PM-0	10/22/12 14:01
Cal Standard	2J29613-CAL3	M_10-22-2012_01-59-04PM-0	10/22/12 14:02
Cal Standard	2J29613-CAL4	M_10-22-2012_01-59-04PM-0	10/22/12 14:03
Cal Standard	2J29613-CAL5	M_10-22-2012_01-59-04PM-0	10/22/12 14:04
Cal Standard	2J29613-CAL6	M_10-22-2012_01-59-04PM-0	10/22/12 14:05
Cal Standard	2J29613-CAL7	M_10-22-2012_01-59-04PM-0	10/22/12 14:06
Cal Standard	2J29613-CAL8	M_10-22-2012_01-59-04PM-0	10/22/12 14:07
Initial Cal Check	2J29613-ICV1	M_10-22-2012_01-59-04PM-0	10/22/12 14:08
Initial Cal Blank	2J29613-ICB1	M_10-22-2012_01-59-04PM-0	10/22/12 14:09
Blank	2J22002-BLK1	M_10-22-2012_01-59-04PM-0	10/22/12 14:09
LCS	2J22002-BS1	M_10-22-2012_01-59-04PM-0	10/22/12 14:10
GW0748	1210056-01	M_10-22-2012_01-59-04PM-0	10/22/12 14:11
GW0748	2J22002-MS1	M_10-22-2012_01-59-04PM-0	10/22/12 14:12
GW0749	1210056-03	M_10-22-2012_01-59-04PM-0	10/22/12 14:13
GW0749	2J22002-DUP1	M_10-22-2012_01-59-04PM-0	10/22/12 14:14
GW0752	1210056-05	M_10-22-2012_01-59-04PM-0	10/22/12 14:15
GW0758	1210056-07	M_10-22-2012_01-59-04PM-0	10/22/12 14:16
GW0775	1210056-09	M_10-22-2012_01-59-04PM-0	10/22/12 14:17
GW0776	1210056-11	M_10-22-2012_01-59-04PM-0	10/22/12 14:18
GW0777	1210056-13	M_10-22-2012_01-59-04PM-0	10/22/12 14:19
GW0838	1210056-15	M_10-22-2012_01-59-04PM-0	10/22/12 14:20
GW0839	1210056-17	M_10-22-2012_01-59-04PM-0	10/22/12 14:21
GW0840	1210056-19	M_10-22-2012_01-59-04PM-0	10/22/12 14:22
Calibration Check	2J29613-CCV1	M_10-22-2012_01-59-04PM-0	10/22/12 14:23
Calibration Blank	2J29613-CCB1	M_10-22-2012_01-59-04PM-0	10/22/12 14:24
GW0851	1210056-21	M_10-22-2012_01-59-04PM-0	10/22/12 14:25
GW0852	1210056-23	M_10-22-2012_01-59-04PM-0	10/22/12 14:26
GW0853	1210056-25	M_10-22-2012_01-59-04PM-0	10/22/12 14:27
Calibration Check	2J29613-CCV2	M_10-22-2012_01-59-04PM-0	10/22/12 14:34
Calibration Blank	2J29613-CCB2	M_10-22-2012_01-59-04PM-0	10/22/12 14:35

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_064
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29712	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2J29712-CCV1	101112-003	10/11/12 09:32
Calibration Blank	2J29712-CCB1	101112-004	10/11/12 09:50
Instrument RL Check	2J29712-CRL2	101112-007	10/11/12 10:42
Instrument RL Check	2J29712-CRL3	101112-008	10/11/12 10:59
LCS	2J11014-BS1	101112-009	10/11/12 11:17
Blank	2J11014-BLK1	101112-010	10/11/12 11:34
GW0852	1210056-23	101112-017	10/11/12 13:36
GW0852	2J11014-MS1	101112-018	10/11/12 13:53
GW0852	2J11014-MSD1	101112-019	10/11/12 14:11
GW0852	2J11014-DUP1	101112-020	10/11/12 14:28
Calibration Check	2J29712-CCV2	101112-021	10/11/12 14:46
Calibration Blank	2J29712-CCB2	101112-022	10/11/12 15:03
GW0777	1210056-13	101112-025	10/11/12 15:55
GW0838	1210056-15	101112-026	10/11/12 16:13
GW0839	1210056-17	101112-027	10/11/12 16:30
GW0840	1210056-19	101112-028	10/11/12 16:47
Calibration Check	2J29712-CCV3	101112-033	10/11/12 18:14
Calibration Blank	2J29712-CCB3	101112-034	10/11/12 18:32
GW0851	1210056-21	101112-035	10/11/12 18:49
GW0853	1210056-25	101112-036	10/11/12 19:07
Calibration Check	2J29712-CCV4	101112-040	10/11/12 20:16
Calibration Blank	2J29712-CCB4	101112-041	10/11/12 20:34