ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_036

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

SUBMITTAL TO:
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THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

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

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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

Revision 01: The summary package was revised to remove SW8270 raw data.
Revision 02: Due to an internal evaluation, the laboratory discovered a calculation error with the Final Result for EDB that was previously reported. The Initial and Final volumes were reversed in the entry into LIMS causing the change in the Final Results that were reported on the Data Package and the EDD. This error affected all Detection Limits and the positive results reported. Each sample within this SDG with a positive result, is listed below with the original and the new Final Result.

Client ID	Original Result	Revised Result
GW0289	0.308 ug/L	0.277 ug/L
GW0290	0.279 ug/L	0.241 ug/L
GW0331	0.0598 ug/L	0.0531 ug/L
GW0352	0.166 ug/L	0.0146 ug/L
GW0288	0.504 ug/L	0.430 ug/L
GW0344	0.0450 ug/L	0.0387 ug/L
GW0345	0.646 ug/L	0.552 ug/L

Analytical Information

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

Chromatographic Flags for Manual Integration:

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

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.

D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The method blank 1K18002-BLK1 has a positive result for Acetone. The method blank 1K21001-BLK1 has positive results for Acetone and 1,2,4-Trichlorobenzene.

The batch spikes associated to batch 1K18002 exceeded relative percent difference criteria for Hexachlorobutadiene.

The continuing calibration verifications exceeded criteria in 1K32501-CCV1 with a negative bias for Hexachlorobutadiene, in 1K32502-CCV1 with a positive bias for Bromoform and with a negative bias for Naphthalene, and in 1K32702-CCV1 with a negative bias for Carbon Disulfide.

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

SW8270C BNA:
The surrogate 2-Fluorophenol exceeded criteria with a negative bias in 1111148-03, -05, -11, and 1111162-03.

The batch spikes associated to batch 1K17001 exceeded recovery criteria with a negative bias for Caprolactam and 2-Methylphenol, exceeded recovery criteria with a positive bias for 4-Chlorophenyl phenyl ether and 2-Nitroaniline, and exceeded relative percent difference criteria for Bis(2-chloroethyl)ether, 2-Chlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, Hexachlorobutadiene, Hexachloroethane, and 2-Nitrophenol. The batch spikes associated to batch 1K21011 exceeded recovery criteria with a negative bias for Caprolactam and with a positive bias for 4-Chlorophenyl phenyl ether and 2-Nitroaniline.

The initial calibration verifications exceeded criteria in 1K31411-ICV2 with a positive bias for 3,3'-Dichlorobenzidine and in 1L33501-ICV2 with a positive bias for Benzidine.

The continuing calibration verifications exceeded criteria in 1K33208-CCV1 with a positive bias for 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene, 4-Chlorophenyl phenyl ether, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, Hexachlorobutadiene, 4-Nitroaniline, 2-Nitroaniline, 3-Nitroaniline, 4-Nitrophenol, 2,4,6-Trichloroophenol, and 2,4,5-Trichlorophenol and with a negative bias for Bis(2-Chloroethoxy)methane, 2,2'-Oxybis-1-chloropropane, and Phenol-d6, in 1L33702-CCV1 with a negative bias for Benzaldehyde, Benzo(g,h,i)perylene, and 2,2'-Oxybis-1-chloropropane, and in 1L33907-CCV1 with a negative bias for Benzaldehyde, 4-Chloroaniline, 2,2'-Oxybis-1-chloropropane, 2-Fluorophenol, and Phenol-d6.

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

been applied.

SW8015B GRO:
The continuing calibration verifications 1K33304-CCV2 and –CCV3 exceeded recovery criteria with a positive bias for Gasoline Range Organics.

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

SW8015B DRO:
No anomalies or deviations are noted.

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
No anomalies or deviations are noted.

Wet Chemistry:
Samples 1111177-01, -03, -05, and -07 are qualified with an M for Chloride to indicate that the LOQ was raised to 1.0mg/L which is the level of the RL standard within criteria.

The continuing calibration verification 1L33606-CCV1 exceeded criteria with a positive bias for Nitrate/Nitrite as N.

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

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

Analytical Report Terms and Qualifiers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

S: The associated internal standard failed criteria.

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

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

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

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

LIMS Definitions / Naming Conventions:

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

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

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

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

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

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

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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

1111148

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW143

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

Samples Shipment Date: 15 NOV 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
~~Project Contact: Pamela Moss~~
Carrier/Waybill No.: Fed Ex/488306616240

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

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

Special Instructions:

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

1. Relinquished By (Signature/Affiliation) Shaw — Date: 11/15/11 Time: 1680
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

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

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 11/16/1 Time: 0820

Comments:

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Kirtland_036 Summ Package

1111148

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW143

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
Ø1	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0250	2819-R-CRT-WG-GW0250-REG	15 NOV 2011	09:41	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
Ø3	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
Ø4	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
Ø3	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0289	KAFB-106036-WG-GW0289-REG	15 NOV 2011	13:29	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
Ø5	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
Ø6	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
Ø5	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0290	KAFB-106037-WG-GW0290-REG	15 NOV 2011	10:58	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
Ø7	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
Ø8	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW143

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								SW846 6010C					
07	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0331	KAFB-106073-WG-GW0331-REG	14 NOV 2011	16:18	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
09	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
10	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0332	KAFB-106074-WG-GW0332-REG	14 NOV 2011	13:39	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
11	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
12	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0352	KAFB-106092-WG-GW0352-REG	15 NOV 2011	13:31	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		

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1111148

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW143

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
13	GW8143-TB	FIELDQC-BW-GW8143-TB-TB	14 NOV 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 11/16/11 @ 0820 1/1/1/48

1. Tracking #_____6251_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius + correction factor 0.0* = 3.2

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-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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RCT

15a. 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 (intial) RCT

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 (intial) _____

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

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

Additional Details:

1111148

Cooler Received/Opened On_ 11/16/11 @ 0820

1. Tracking #_____6273_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 4.2 *Degrees Celsius + correction factor 0.0* = 4.2

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-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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. 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 (intial) _____

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 (intial) _____

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

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

Additional Details:

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

Cooler Received/Opened On_ 11/16/11 @ 0820

1. Tracking #_____6240_____(last 4 digits, FedEx) 1111148

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.3 *Degrees Celsius + correction factor 0.0* = 3.3

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-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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RGT

15a. 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 (intial) RGT

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 (intial) _____

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

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

Additional Details:

Shaw™
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW144

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

Samples Shipment Date: 16 NOV 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616284

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [signature] Shaw — Date: 11/16/11 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) Reginald Lobby — Date: 11.17.11 Time: 0830

Comments:

1111162

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW144

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0288	KAFB-106035-WG-GW0288-REG	15 NOV 2011	15:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04	GW0344	KAFB-106085-WG-GW0344-REG	16 NOV 2011	10:21	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-06	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0345	KAFB-106086-WG-GW0345-REG	16 NOV 2011	13:08	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-07	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW144

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-07	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-08	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-07	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0351	KAFB-106091-WG-GW0351-REG	16 NOV 2011	10:23	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
-09	GW8035-AB	FIELDQC-BW-GW8035-AB-FB	16 NOV 2011	10:21	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
-10	GW8144-TB	FIELDQC-BW-GW8144-TB-TB	16 NOV 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 11/17/11 @ 0830

1. Tracking #_____6284_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.1 *Degrees Celsius + correction factor 0.0* = 0.1

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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. 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 (intial) RT

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 (intial) RT

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

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

Additional Details:

Cooler Received/Opened On_ 11/17/11 @ 0830

1. Tracking #_____6295_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.0 *Degrees Celsius + correction factor 0.0* = 1.0

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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. 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 (intial) _____

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 (intial) _____

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

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

Additional Details:

Cooler Received/Opened On_ 11/17/11 @ 0830

1. Tracking #_____6300_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius + correction factor 0.0* = 2.1

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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. 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 (intial) _____

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 (intial) _____

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

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

Additional Details:

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW145

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

Samples Shipment Date: 17 NOV 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616310

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Shaw Date: 11/17/11 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Reynaldo Talley Date: 11.18.11 Time: 0970

Comments:

11/17/11

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW145

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	~~GW0274~~	~~KAFB-106020-WG-GW0274-REG~~	~~17 NOV 2011~~	~~11:11~~	~~250 mL HDPE~~	~~1~~	~~Zinc Acetate and NaOH>~~	~~Sulfide by SM4500S-2CF~~			N		
	GW0274	KAFB-106020-WG-GW0274-REG	17 NOV 2011	11:11	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-03	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-04	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0275	KAFB-106020-WG-GW0275-FD	17 NOV 2011	11:11	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-05	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0346	KAFB-106087-WG-GW0346-REG	17 NOV 2011	11:43	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
-01	GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW145

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07 GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
08 GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07 GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0353	KAFB-106093-WG-GW0353-REG	16 NOV 2011	14:53	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
09 GW8145-TB	FIELDQC-BW-GW8145-TB-TB	17 NOV 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 11/18/11 @ 0820

1. Tracking #_____6310_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.6 *Degrees Celsius + correction factor 0.0* = 1.6

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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. 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 (intial) RT

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 (intial) RT

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

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

Additional Details:

Cooler Received/Opened On_ 11/18/11 @ 0820

1. Tracking #_____6332_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 5.4 *Degrees Celsius + correction factor 0.0* = 5.4

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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. 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 (intial) RT

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 (intial) RT

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

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

Additional Details:

Cooler Received/Opened On_ 11/18/11 @ 0820

1. Tracking #_____6321_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius + correction factor 0.0* = 3.2

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 (intial) _____

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

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

8. Packing mat'l 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

13a. 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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. 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 (intial) _____

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 (intial) _____

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

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

Additional Details:

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
Project Number: **SHW_Kirtland**

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

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

Date Due: 12/09/2011 16:00 (15 day TAT)

Received By: Benjamin C. Wright

Logged In By: Benjamin C. Wright

Date Received: 11/16/2011 08:20

Date Logged In 11/16/2011 12:55

Samples Received at: **3.3°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111148-01 GW0250 [Water] Sampled 11/15/2011 09:41 Mountain					
E353.2	12/06/2011 14:00	15	12/13/2011 10:41		
SW6010B	12/06/2011 14:00	15	05/13/2012 10:41		Ca, Pb, K, Na, Mg
SM4500S2CF	12/06/2011 14:00	15	11/22/2011 10:41		
SW8011	12/06/2011 14:00	15	11/29/2011 10:41		
E300.0	12/06/2011 14:00	15	12/13/2011 10:41		Cl, SO4
SM4500NH3BG	12/06/2011 14:00	15	12/13/2011 10:41		
SM2320B	12/06/2011 14:00	15	11/29/2011 10:41		carb/bicarb
SW8260B	12/06/2011 14:00	15	11/29/2011 10:41		
SW8015B GRO	12/06/2011 14:00	15	11/29/2011 10:41		
SW8015B DRO	12/06/2011 14:00	15	11/22/2011 10:41		
SW8270C	12/06/2011 14:00	15	11/22/2011 10:41		requires 3-Methlphenol/4-Methylphenol
1111148-02 GW0250 [Water] Sampled 11/15/2011 09:41 Mountain					**Feild Filtered.**
SW6010B	12/06/2011 14:00	15	05/13/2012 10:41		Fe & Mn

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111148-03 GW0289 [Water] Sampled 11/15/2011 13:29 Mountain					
SM4500NH3BG	12/06/2011 14:00	15	12/13/2011 14:29		
SW8270C	12/06/2011 14:00	15	11/22/2011 14:29		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	12/06/2011 14:00	15	11/22/2011 14:29		
E353.2	12/06/2011 14:00	15	12/13/2011 14:29		
SW8260B	12/06/2011 14:00	15	11/29/2011 14:29		
SW8015B GRO	12/06/2011 14:00	15	11/29/2011 14:29		
SW8011	12/06/2011 14:00	15	11/29/2011 14:29		
SW8015B DRO	12/06/2011 14:00	15	11/22/2011 14:29		
SW6010B	12/06/2011 14:00	15	05/13/2012 14:29		Ca, Pb, K, Na, Mg
SM2320B	12/06/2011 14:00	15	11/29/2011 14:29		carb/bicarb
E300.0	12/06/2011 14:00	15	12/13/2011 14:29		Cl, SO4
1111148-04 GW0289 [Water] Sampled 11/15/2011 13:29 Mountain					**Feild Filtered.**
SW6010B	12/06/2011 14:00	15	05/13/2012 14:29		Fe & Mn

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111148-05 GW0290 [Water] Sampled 11/15/2011 10:58 Mountain					
SW8015B DRO	12/06/2011 14:00	15	11/22/2011 11:58		
SW8270C	12/06/2011 14:00	15	11/22/2011 11:58		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	12/06/2011 14:00	15	11/22/2011 11:58		
E353.2	12/06/2011 14:00	15	12/13/2011 11:58		
E300.0	12/06/2011 14:00	15	12/13/2011 11:58		Cl, SO4
SM4500NH3BG	12/06/2011 14:00	15	12/13/2011 11:58		
SM2320B	12/06/2011 14:00	15	11/29/2011 11:58		carb/bicarb
SW8260B	12/06/2011 14:00	15	11/29/2011 11:58		
SW8011	12/06/2011 14:00	15	11/29/2011 11:58		
SW6010B	12/06/2011 14:00	15	05/13/2012 11:58		Ca, Pb, K, Na, Mg
SW8015B GRO	12/06/2011 14:00	15	11/29/2011 11:58		
1111148-06 GW0290 [Water] Sampled 11/15/2011 10:58 Mountain					**Feild Filtered.**
SW6010B	12/06/2011 14:00	15	05/13/2012 11:58		Fe & Mn

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111148-07 GW0331 [Water] Sampled 11/14/2011 16:18 Mountain					
SW8011	12/06/2011 14:00	15	11/28/2011 17:18		
SW8015B DRO	12/06/2011 14:00	15	11/21/2011 17:18		
E300.0	12/06/2011 14:00	15	12/12/2011 17:18		Cl, SO4
SW8015B GRO	12/06/2011 14:00	15	11/28/2011 17:18		
SW8260B	12/06/2011 14:00	15	11/28/2011 17:18		
SM4500S2CF	12/06/2011 14:00	15	11/21/2011 17:18		
SW8270C	12/06/2011 14:00	15	11/21/2011 17:18		requires 3-Methlphenol/4-Methylphenol
SM4500NH3BG	12/06/2011 14:00	15	12/12/2011 17:18		
SW6010B	12/06/2011 14:00	15	05/12/2012 17:18		Ca, Pb, K, Na, Mg
SM2320B	12/06/2011 14:00	15	11/28/2011 17:18		carb/bicarb
E353.2	12/06/2011 14:00	15	12/12/2011 17:18		
1111148-08 GW0331 [Water] Sampled 11/14/2011 16:18 Mountain					**Feild Filtered.**
SW6010B	12/06/2011 14:00	15	05/12/2012 17:18		Fe & Mn

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111148-09 GW0332 [Water] Sampled 11/14/2011 13:39 Mountain					
SW8260B	12/06/2011 14:00	15	11/28/2011 14:39		
SM2320B	12/06/2011 14:00	15	11/28/2011 14:39		carb/bicarb
SW8270C	12/06/2011 14:00	15	11/21/2011 14:39		requires 3-Methlphenol/4-Methylphenol
SW8015B GRO	12/06/2011 14:00	15	11/28/2011 14:39		
SW8015B DRO	12/06/2011 14:00	15	11/21/2011 14:39		
E353.2	12/06/2011 14:00	15	12/12/2011 14:39		
E300.0	12/06/2011 14:00	15	12/12/2011 14:39		Cl, SO4
SM4500NH3BG	12/06/2011 14:00	15	12/12/2011 14:39		
SW6010B	12/06/2011 14:00	15	05/12/2012 14:39		Ca, Pb, K, Na, Mg
SW8011	12/06/2011 14:00	15	11/28/2011 14:39		
SM4500S2CF	12/06/2011 14:00	15	11/21/2011 14:39		
1111148-10 GW0332 [Water] Sampled 11/14/2011 13:39 Mountain					**Feild Filtered.**
SW6010B	12/06/2011 14:00	15	05/12/2012 14:39		Fe & Mn

WORK ORDER

1111148

Printed: 12/19/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111148-11 GW0352 [Water] Sampled 11/15/2011 13:31 Mountain					
SW8015B DRO	12/06/2011 14:00	15	11/22/2011 14:31		
E300.0	12/06/2011 14:00	15	12/13/2011 14:31		Cl, SO4
SW6010B	12/06/2011 14:00	15	05/13/2012 14:31		Ca, Pb, K, Na, Mg
E353.2	12/06/2011 14:00	15	12/13/2011 14:31		
SM4500NH3BG	12/06/2011 14:00	15	12/13/2011 14:31		
SM2320B	12/06/2011 14:00	15	11/29/2011 14:31		carb/bicarb
SW8260B	12/06/2011 14:00	15	11/29/2011 14:31		
SW8015B GRO	12/06/2011 14:00	15	11/29/2011 14:31		
SW8011	12/06/2011 14:00	15	11/29/2011 14:31		
SW8270C	12/06/2011 14:00	15	11/22/2011 14:31		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	12/06/2011 14:00	15	11/22/2011 14:31		
1111148-12 GW0352 [Water] Sampled 11/15/2011 13:31 Mountain					**Feild Filtered.**
SW6010B	12/06/2011 14:00	15	05/13/2012 14:31		Fe & Mn
1111148-13 GW8143-TB [Water] Sampled 11/14/2011 08:00 Mountain					
SW8260B	12/06/2011 14:00	15	11/28/2011 09:00		

WORK ORDER

1111162

Printed: 12/19/2011 3:03:50PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
Project Number: **SHW_Kirtland**

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

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

Date Due: 12/12/2011 16:00 (15 day TAT)

Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 11/17/2011 08:30
Date Logged In 11/17/2011 10:05

Samples Received at: **0.1°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1111162

Printed: 12/19/2011 3:03:50PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111162-01 GW0288 [Water] Sampled 11/15/2011 15:44 Mountain					
SW8011	12/07/2011 14:00	15	11/29/2011 16:44		
SW6010B	12/07/2011 14:00	15	05/13/2012 16:44		Ca, Pb, K, Na, Mg
SW8015B DRO	12/07/2011 14:00	15	11/22/2011 16:44		
SW8015B GRO	12/07/2011 14:00	15	11/29/2011 16:44		
SW8260B	12/07/2011 14:00	15	11/29/2011 16:44		
SM2320B	12/07/2011 14:00	15	11/29/2011 16:44		carb/bicarb
SM4500NH3BG	12/07/2011 14:00	15	12/13/2011 16:44		
E300.0	12/07/2011 14:00	15	12/13/2011 16:44		Cl, SO4
E353.2	12/07/2011 14:00	15	12/13/2011 16:44		
SM4500S2CF	12/07/2011 14:00	15	11/22/2011 16:44		
SW8270C	12/07/2011 14:00	15	11/22/2011 16:44		requires 3-Methlphenol/4-Methylphenol
1111162-02 GW0288 [Water] Sampled 11/15/2011 15:44 Mountain					**FIELD FILTERED**
SW6010B	12/07/2011 14:00	15	05/13/2012 16:44		Fe & Mn

WORK ORDER

1111162

Printed: 12/19/2011 3:03:50PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111162-03 GW0344 [Water] Sampled 11/16/2011 10:21 Mountain					
SW8260B	12/07/2011 14:00	15	11/30/2011 11:21		
E353.2	12/07/2011 14:00	15	12/14/2011 11:21		
E300.0	12/07/2011 14:00	15	12/14/2011 11:21		Cl, SO4
SW8015B DRO	12/07/2011 14:00	15	11/23/2011 11:21		
SM2320B	12/07/2011 14:00	15	11/30/2011 11:21		carb/bicarb
SM4500NH3BG	12/07/2011 14:00	15	12/14/2011 11:21		
SW8270C	12/07/2011 14:00	15	11/23/2011 11:21		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	12/07/2011 14:00	15	11/23/2011 11:21		
SW8015B GRO	12/07/2011 14:00	15	11/30/2011 11:21		
SW8011	12/07/2011 14:00	15	11/30/2011 11:21		
SW6010B	12/07/2011 14:00	15	05/14/2012 11:21		Ca, Pb, K, Na, Mg
1111162-04 GW0344 [Water] Sampled 11/16/2011 10:21 Mountain					**FIELD FILTERED**
SW6010B	12/07/2011 14:00	15	05/14/2012 11:21		Fe & Mn

WORK ORDER

1111162

Printed: 12/19/2011 3:03:50PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111162-05 GW0345 [Water] Sampled 11/16/2011 13:08 Mountain					
SM4500S2CF	12/07/2011 14:00	15	11/23/2011 14:08		
E353.2	12/07/2011 14:00	15	12/14/2011 14:08		
E300.0	12/07/2011 14:00	15	12/14/2011 14:08		Cl, SO4
SM4500NH3BG	12/07/2011 14:00	15	12/14/2011 14:08		
SW8270C	12/07/2011 14:00	15	11/23/2011 14:08		requires 3-Methlphenol/4-Methylphenol
SM2320B	12/07/2011 14:00	15	11/30/2011 14:08		carb/bicarb
SW8260B	12/07/2011 14:00	15	11/30/2011 14:08		
SW8011	12/07/2011 14:00	15	11/30/2011 14:08		
SW8015B GRO	12/07/2011 14:00	15	11/30/2011 14:08		
SW6010B	12/07/2011 14:00	15	05/14/2012 14:08		Ca, Pb, K, Na, Mg
SW8015B DRO	12/07/2011 14:00	15	11/23/2011 14:08		
1111162-06 GW0345 [Water] Sampled 11/16/2011 13:08 Mountain					**FIELD FILTERED**
SW6010B	12/07/2011 14:00	15	05/14/2012 14:08		Fe & Mn

WORK ORDER

1111162

Printed: 12/19/2011 3:03:50PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111162-07 GW0351 [Water] Sampled 11/16/2011 10:23 Mountain					
E353.2	12/07/2011 14:00	15	12/14/2011 11:23		
SW6010B	12/07/2011 14:00	15	05/14/2012 11:23		Ca, Pb, K, Na, Mg
SW8015B DRO	12/07/2011 14:00	15	11/23/2011 11:23		
SW8011	12/07/2011 14:00	15	11/30/2011 11:23		
SW8015B GRO	12/07/2011 14:00	15	11/30/2011 11:23		
SW8260B	12/07/2011 14:00	15	11/30/2011 11:23		
SM2320B	12/07/2011 14:00	15	11/30/2011 11:23		carb/bicarb
E300.0	12/07/2011 14:00	15	12/14/2011 11:23		Cl, SO4
SM4500S2CF	12/07/2011 14:00	15	11/23/2011 11:23		
SW8270C	12/07/2011 14:00	15	11/23/2011 11:23		requires 3-Methlphenol/4-Methylphenol
SM4500NH3BG	12/07/2011 14:00	15	12/14/2011 11:23		
1111162-08 GW0351 [Water] Sampled 11/16/2011 10:23 Mountain					**FIELD FILTERED**
SW6010B	12/07/2011 14:00	15	05/14/2012 11:23		Fe & Mn
1111162-09 GW8035-AB [Water] Sampled 11/16/2011 10:21 Mountain					
SW8260B	12/07/2011 14:00	15	11/30/2011 11:21		
1111162-10 GW8144-TB [Water] Sampled 11/16/2011 08:00 Mountain					
SW8260B	12/07/2011 14:00	15	11/30/2011 09:00		

WORK ORDER

1111177

Printed: 12/19/2011 3:04:26PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
Project Number: **SHW_Kirtland**

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

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

Date Due: 12/13/2011 16:00 (15 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 11/18/2011 08:20
Date Logged In 11/18/2011 11:19

Samples Received at: **1.6°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1111177

Printed: 12/19/2011 3:04:26PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111177-01 GW0274 [Water] Sampled 11/17/2011 11:11 Mountain					
SM4500NH3BG	12/08/2011 14:00	15	12/15/2011 12:11		
SW8015B DRO	12/08/2011 14:00	15	11/24/2011 12:11		
SW8011	12/08/2011 14:00	15	12/01/2011 12:11		
SW8015B GRO	12/08/2011 14:00	15	12/01/2011 12:11		
SW6010B	12/08/2011 14:00	15	05/15/2012 12:11		Ca, Pb, K, Na, Mg
SM2320B	12/08/2011 14:00	15	12/01/2011 12:11		carb/bicarb
E300.0	12/08/2011 14:00	15	12/15/2011 12:11		Cl, SO4
E353.2	12/08/2011 14:00	15	12/15/2011 12:11		
SM4500S2CF	12/08/2011 14:00	15	11/24/2011 12:11		
SW8270C	12/08/2011 14:00	15	11/24/2011 12:11		requires 3-Methlphenol/4-Methylphenol
SW8260B	12/08/2011 14:00	15	12/01/2011 12:11		
1111177-02 GW0274 [Water] Sampled 11/17/2011 11:11 Mountain					**FIELD FILTERED**
SW6010B	12/08/2011 14:00	15	05/15/2012 12:11		Fe & Mn

WORK ORDER

1111177

Printed: 12/19/2011 3:04:26PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111177-03 GW0275 [Water] Sampled 11/17/2011 11:11 Mountain					
E300.0	12/08/2011 14:00	15	12/15/2011 12:11		Cl, SO4
SM4500NH3BG	12/08/2011 14:00	15	12/15/2011 12:11		
SM2320B	12/08/2011 14:00	15	12/01/2011 12:11		carb/bicarb
SW8260B	12/08/2011 14:00	15	12/01/2011 12:11		
SW8015B GRO	12/08/2011 14:00	15	12/01/2011 12:11		
SW8011	12/08/2011 14:00	15	12/01/2011 12:11		
SW8015B DRO	12/08/2011 14:00	15	11/24/2011 12:11		
SW6010B	12/08/2011 14:00	15	05/15/2012 12:11		Ca, Pb, K, Na, Mg
E353.2	12/08/2011 14:00	15	12/15/2011 12:11		
SM4500S2CF	12/08/2011 14:00	15	11/24/2011 12:11		
SW8270C	12/08/2011 14:00	15	11/24/2011 12:11		requires 3-Methlphenol/4-Methylphenol
1111177-04 GW0275 [Water] Sampled 11/17/2011 11:11 Mountain					**FIELD FILTERED**
SW6010B	12/08/2011 14:00	15	05/15/2012 12:11		Fe & Mn

WORK ORDER

1111177

Printed: 12/19/2011 3:04:26PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111177-05 GW0346 [Water] Sampled 11/17/2011 11:43 Mountain					
SM2320B	12/08/2011 14:00	15	12/01/2011 12:43		carb/bicarb
SW8015B DRO	12/08/2011 14:00	15	11/24/2011 12:43		
E300.0	12/08/2011 14:00	15	12/15/2011 12:43		Cl, SO4
SW8015B GRO	12/08/2011 14:00	15	12/01/2011 12:43		
SM4500NH3BG	12/08/2011 14:00	15	12/15/2011 12:43		
SW8011	12/08/2011 14:00	15	12/01/2011 12:43		
E353.2	12/08/2011 14:00	15	12/15/2011 12:43		
SM4500S2CF	12/08/2011 14:00	15	11/24/2011 12:43		
SW8270C	12/08/2011 14:00	15	11/24/2011 12:43		requires 3-Methlphenol/4-Methylphenol
SW8260B	12/08/2011 14:00	15	12/01/2011 12:43		
SW6010B	12/08/2011 14:00	15	05/15/2012 12:43		Ca, Pb, K, Na, Mg
1111177-06 GW0346 [Water] Sampled 11/17/2011 11:43 Mountain					**FIELD FILTERED**
SW6010B	12/08/2011 14:00	15	05/15/2012 12:43		Fe & Mn

WORK ORDER

1111177

Printed: 12/19/2011 3:04:26PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1111177-07 GW0353 [Water] Sampled 11/16/2011 14:53 Mountain					
SM4500NH3BG	12/08/2011 14:00	15	12/14/2011 15:53		
SW6010B	12/08/2011 14:00	15	05/14/2012 15:53		Ca, Pb, K, Na, Mg
SW8015B DRO	12/08/2011 14:00	15	11/23/2011 15:53		
SW8011	12/08/2011 14:00	15	11/30/2011 15:53		
SW8015B GRO	12/08/2011 14:00	15	11/30/2011 15:53		
SM2320B	12/08/2011 14:00	15	11/30/2011 15:53		carb/bicarb
E300.0	12/08/2011 14:00	15	12/14/2011 15:53		Cl, SO4
E353.2	12/08/2011 14:00	15	12/14/2011 15:53		
SM4500S2CF	12/08/2011 14:00	15	11/23/2011 15:53		
SW8270C	12/08/2011 14:00	15	11/23/2011 15:53		requires 3-Methlphenol/4-Methylphenol
SW8260B	12/08/2011 14:00	15	11/30/2011 15:53		
1111177-08 GW0353 [Water] Sampled 11/17/2011 14:53 Mountain					**FIELD FILTERED**
SW6010B	12/08/2011 14:00	15	05/15/2012 15:53		Fe & Mn
1111177-09 GW8145-TB [Water] Sampled 11/17/2011 08:00 Mountain					
SW8260B	12/08/2011 14:00	15	12/01/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_036
MATRIX: Water

QC LEVEL: Level IV
Report Due: 12/13/2011
Client Sample Count: 29

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B
Client Sample	11/15/2011	11/16/2011	1111148-01	GW0250	X	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-02	GW0250						X
Client Sample	11/15/2011	11/16/2011	1111148-03	GW0289	X	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-04	GW0289						X
Client Sample	11/15/2011	11/16/2011	1111148-05	GW0290	X	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-06	GW0290						X
Client Sample	11/14/2011	11/16/2011	1111148-07	GW0331	X	X	X	X	X	X
Client Sample	11/14/2011	11/16/2011	1111148-08	GW0331						X
Client Sample	11/14/2011	11/16/2011	1111148-09	GW0332	X	X	X	X	X	X
Client Sample	11/14/2011	11/16/2011	1111148-10	GW0332						X
Client Sample	11/15/2011	11/16/2011	1111148-11	GW0352	X	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-12	GW0352						X
Trip Blank	11/14/2011	11/16/2011	1111148-13	GW8143-TB						
Client Sample	11/15/2011	11/17/2011	1111162-01	GW0288	X	X	X	X	X	X
Client Sample	11/15/2011	11/17/2011	1111162-02	GW0288						X
Client Sample	11/16/2011	11/17/2011	1111162-03	GW0344	X	X	X	X	X	X
Client Sample	11/16/2011	11/17/2011	1111162-04	GW0344						X
Client Sample	11/16/2011	11/17/2011	1111162-05	GW0345	X	X	X	X	X	X
Client Sample	11/16/2011	11/17/2011	1111162-06	GW0345						X
Client Sample	11/16/2011	11/17/2011	1111162-07	GW0351	X	X	X	X	X	X
Client Sample	11/16/2011	11/17/2011	1111162-08	GW0351						X
Client Sample	11/16/2011	11/17/2011	1111162-09	GW8035-AB						
Trip Blank	11/16/2011	11/17/2011	1111162-10	GW8144-TB						
Client Sample	11/17/2011	11/18/2011	1111177-01	GW0274	X	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-02	GW0274						X
Client Sample	11/17/2011	11/18/2011	1111177-03	GW0275	X	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-04	GW0275						X
Client Sample	11/17/2011	11/18/2011	1111177-05	GW0346	X	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-06	GW0346						X
Client Sample	11/16/2011	11/18/2011	1111177-07	GW0353	X	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-08	GW0353						X
Trip Blank	11/17/2011	11/18/2011	1111177-09	GW8145-TB						

Sample Type	Sampled	Received	Lab ID	Client ID	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	11/15/2011	11/16/2011	1111148-01	GW0250	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-02	GW0250					
Client Sample	11/15/2011	11/16/2011	1111148-03	GW0289	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-04	GW0289					
Client Sample	11/15/2011	11/16/2011	1111148-05	GW0290	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-06	GW0290					
Client Sample	11/14/2011	11/16/2011	1111148-07	GW0331	X	X	X	X	X
Client Sample	11/14/2011	11/16/2011	1111148-08	GW0331					
Client Sample	11/14/2011	11/16/2011	1111148-09	GW0332	X	X	X	X	X
Client Sample	11/14/2011	11/16/2011	1111148-10	GW0332					
Client Sample	11/15/2011	11/16/2011	1111148-11	GW0352	X	X	X	X	X
Client Sample	11/15/2011	11/16/2011	1111148-12	GW0352					
Trip Blank	11/14/2011	11/16/2011	1111148-13	GW8143-TB				X	
Client Sample	11/15/2011	11/17/2011	1111162-01	GW0288	X	X	X	X	X
Client Sample	11/15/2011	11/17/2011	1111162-02	GW0288					
Client Sample	11/16/2011	11/17/2011	1111162-03	GW0344	X	X	X	X	X
Client Sample	11/16/2011	11/17/2011	1111162-04	GW0344					
Client Sample	11/16/2011	11/17/2011	1111162-05	GW0345	X	X	X	X	X
Client Sample	11/16/2011	11/17/2011	1111162-06	GW0345					
Client Sample	11/16/2011	11/17/2011	1111162-07	GW0351	X	X	X	X	X
Client Sample	11/16/2011	11/17/2011	1111162-08	GW0351					
Client Sample	11/16/2011	11/17/2011	1111162-09	GW8035-AB				X	
Trip Blank	11/16/2011	11/17/2011	1111162-10	GW8144-TB				X	
Client Sample	11/17/2011	11/18/2011	1111177-01	GW0274	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-02	GW0274					
Client Sample	11/17/2011	11/18/2011	1111177-03	GW0275	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-04	GW0275					
Client Sample	11/17/2011	11/18/2011	1111177-05	GW0346	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-06	GW0346					
Client Sample	11/16/2011	11/18/2011	1111177-07	GW0353	X	X	X	X	X
Client Sample	11/17/2011	11/18/2011	1111177-08	GW0353					
Trip Blank	11/17/2011	11/18/2011	1111177-09	GW8145-TB				X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	1114801.D
Sampled:	11/15/11 09:41	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 12:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	1114801.D
Sampled:	11/15/11 09:41	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 12:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	27.30	91.0	85 - 115	
1,2-Dichloroethane-d4	30.00	28.64	95.5	70 - 120	
Toluene-d8	30.00	33.64	112	85 - 120	

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	1114803.D
Sampled:	11/15/11 13:29	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 13:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	1114803.D
Sampled:	11/15/11 13:29	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 13:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.74	99.1	75 - 120	
Dibromofluoromethane	30.00	27.29	91.0	85 - 115	
1,2-Dichloroethane-d4	30.00	28.89	96.3	70 - 120	
Toluene-d8	30.00	33.01	110	85 - 120	

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	1114805.D
Sampled:	11/15/11 10:58	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 13:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	1114805.D
Sampled:	11/15/11 10:58	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 13:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.64	98.8	75 - 120	
Dibromofluoromethane	30.00	27.49	91.6	85 - 115	
1,2-Dichloroethane-d4	30.00	28.72	95.7	70 - 120	
Toluene-d8	30.00	33.06	110	85 - 120	

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	1114807.D
Sampled:	11/14/11 16:18	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 14:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	1114807.D
Sampled:	11/14/11 16:18	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 14:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.97	99.9	75 - 120	
Dibromofluoromethane	30.00	27.58	91.9	85 - 115	
1,2-Dichloroethane-d4	30.00	28.70	95.7	70 - 120	
Toluene-d8	30.00	33.72	112	85 - 120	

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	1114809.D
Sampled:	11/14/11 13:39	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 14:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	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	0.490	0.250	0.500	1.00	J
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	1114809.D
Sampled:	11/14/11 13:39	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 14:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	30.26	101	75 - 120	
Dibromofluoromethane	30.00	27.34	91.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.30	97.7	70 - 120	
Toluene-d8	30.00	33.75	112	85 - 120	

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	1114811.D
Sampled:	11/15/11 13:31	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 14:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.70	2.50	5.00	10.0	J, B
71-43-2	Benzene	0.922	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene	0.383	0.250	0.500	1.00	J
78-93-3	2-Butanone	2.62	2.50	5.00	10.0	J
135-98-8	sec-Butylbenzene	0.449	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	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	2.49	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	1114811.D
Sampled:	11/15/11 13:31	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 14:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	8.11	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene	0.264	0.250	0.500	1.00	J
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	5.19	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.76	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	4.40	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.20	101	75 - 120	
Dibromofluoromethane	30.00	27.45	91.5	85 - 115	
1,2-Dichloroethane-d4	30.00	28.87	96.2	70 - 120	
Toluene-d8	30.00	33.94	113	85 - 120	

ANALYSIS DATA SHEET

GW8143-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-13	File ID:	1114813.D
Sampled:	11/14/11 08:00	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 10:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW8143-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-13	File ID:	1114813.D
Sampled:	11/14/11 08:00	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 10:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	27.39	91.3	85 - 115	
1,2-Dichloroethane-d4	30.00	28.51	95.0	70 - 120	
Toluene-d8	30.00	33.38	111	85 - 120	

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	1116201.D
Sampled:	11/15/11 15:44	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 16:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	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)	0.480	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	1116201.D
Sampled:	11/15/11 15:44	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 16:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.69	99.0	75 - 120	
Dibromofluoromethane	30.00	27.33	91.1	85 - 115	
1,2-Dichloroethane-d4	30.00	30.02	100	70 - 120	
Toluene-d8	30.00	33.21	111	85 - 120	

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	1116203.D
Sampled:	11/16/11 10:21	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 16:46
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	7.38	2.50	5.00	10.0	B, J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	1.99	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	1116203.D
Sampled:	11/16/11 10:21	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 16:46
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	0.557	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene	0.736	0.250	0.500	1.00	J
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	1.81	0.250	0.500	1.00	
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	30.22	101	75 - 120	
Dibromofluoromethane	30.00	27.16	90.5	85 - 115	
1,2-Dichloroethane-d4	30.00	28.67	95.6	70 - 120	
Toluene-d8	30.00	35.28	118	85 - 120	

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	1116205.D
Sampled:	11/16/11 13:08	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 17:13
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.97	2.50	5.00	10.0	B, J
71-43-2	Benzene	1.06	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	0.300	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	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)	0.764	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	0.954	0.250	0.500	1.00	J
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	1116205.D
Sampled:	11/16/11 13:08	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 17:13
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	4.71	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	0.322	0.250	0.500	1.00	J
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	2.06	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	3.89	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	9.48	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.76	99.2	75 - 120	
Dibromofluoromethane	30.00	27.50	91.7	85 - 115	
1,2-Dichloroethane-d4	30.00	29.10	97.0	70 - 120	
Toluene-d8	30.00	33.35	111	85 - 120	

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	1116207.D
Sampled:	11/16/11 10:23	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 17:40
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	18.3	2.50	5.00	10.0	B
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	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	1.33	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	1116207.D
Sampled:	11/16/11 10:23	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 17:40
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.72	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.895	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	0.455	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	0.752	0.750	1.50	3.00	J

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	27.28	90.9	85 - 115	
1,2-Dichloroethane-d4	30.00	28.73	95.8	70 - 120	
Toluene-d8	30.00	33.45	112	85 - 120	

ANALYSIS DATA SHEET

GW8035-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-09	File ID:	1116209.D
Sampled:	11/16/11 10:21	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 11:52
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW8035-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-09	File ID:	1116209.D
Sampled:	11/16/11 10:21	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 11:52
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.70	99.0	75 - 120	
Dibromofluoromethane	30.00	27.25	90.8	85 - 115	
1,2-Dichloroethane-d4	30.00	28.69	95.6	70 - 120	
Toluene-d8	30.00	32.78	109	85 - 120	

ANALYSIS DATA SHEET

GW8144-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-10	File ID:	1116210.D
Sampled:	11/16/11 08:00	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 12:18
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

GW8144-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-10	File ID:	1116210.D
Sampled:	11/16/11 08:00	Prepared:	11/18/11 00:00	Analyzed:	11/18/11 12:18
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.37	97.9	75 - 120	
Dibromofluoromethane	30.00	27.61	92.0	85 - 115	
1,2-Dichloroethane-d4	30.00	28.96	96.5	70 - 120	
Toluene-d8	30.00	33.05	110	85 - 120	

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	1117701.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 11:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	Y, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	1117701.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 11:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.98	99.9	75 - 120	
Dibromofluoromethane	30.00	27.62	92.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.77	99.2	70 - 120	
Toluene-d8	30.00	33.40	111	85 - 120	

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	1117703.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 11:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	Y, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	1117703.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 11:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.77	99.2	75 - 120	
Dibromofluoromethane	30.00	27.34	91.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.31	97.7	70 - 120	
Toluene-d8	30.00	33.57	112	85 - 120	

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	1117705.D
Sampled:	11/17/11 11:43	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 12:18
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	Y, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	1117705.D
Sampled:	11/17/11 11:43	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 12:18
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.69	99.0	75 - 120	
Dibromofluoromethane	30.00	27.41	91.4	85 - 115	
1,2-Dichloroethane-d4	30.00	29.39	98.0	70 - 120	
Toluene-d8	30.00	33.06	110	85 - 120	

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	1117707.D
Sampled:	11/16/11 14:53	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 12:44
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	Y, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	1117707.D
Sampled:	11/16/11 14:53	Prepared:	11/22/11 00:00	Analyzed:	11/22/11 12:44
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.91	99.7	75 - 120	
Dibromofluoromethane	30.00	27.06	90.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.97	96.6	70 - 120	
Toluene-d8	30.00	33.57	112	85 - 120	

ANALYSIS DATA SHEET

GW8145-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-09	File ID:	1117709.D
Sampled:	11/17/11 08:00	Prepared:	11/21/11 00:00	Analyzed:	11/21/11 16:25
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K21001 Sequence: 1K32502 Calibration: 1258002 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	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8145-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-09	File ID:	1117709.D
Sampled:	11/17/11 08:00	Prepared:	11/21/11 00:00	Analyzed:	11/21/11 16:25
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1K21001 Sequence: 1K32502 Calibration: 1258002 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	1.00	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	30.14	100	75 - 120	
Dibromofluoromethane	30.00	27.52	91.7	85 - 115	
1,2-Dichloroethane-d4	30.00	29.66	98.9	70 - 120	
Toluene-d8	30.00	32.87	110	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32501	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K32501-CCV1) ug/L				Lab File ID: 1118CCV1.D		Analyzed: 11/18/11 07:52		
Bromofluorobenzene	30.00	102	80 - 120	12.205	12.205	0.0000	+/-1.000	
Dibromofluoromethane	30.00	91.2	80 - 120	6.889	6.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.1	80 - 120	7.381	7.381	0.0000	+/-1.000	
Toluene-d8	30.00	115	80 - 120	9.586	9.586	0.0000	+/-1.000	
LCS (1K18002-BS1) ug/L				Lab File ID: 1118LCS1.D		Analyzed: 11/18/11 08:19		
Bromofluorobenzene	30.00	102	75 - 120	12.205	12.205	0.0000	+/-1.000	
Dibromofluoromethane	30.00	91.4	85 - 115	6.888	6.889	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	7.381	7.381	0.0000	+/-1.000	
Toluene-d8	30.00	114	85 - 120	9.586	9.586	0.0000	+/-1.000	
Blank (1K18002-BLK1) ug/L				Lab File ID: 1118BLK1.D		Analyzed: 11/18/11 09:38		
Bromofluorobenzene	30.00	99.7	75 - 120	12.205	12.205	0.0000	+/-1.000	
Dibromofluoromethane	30.00	91.7	85 - 115	6.889	6.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.8	70 - 120	7.381	7.381	0.0000	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.586	9.586	0.0000	+/-1.000	
GW8143-TB (1111148-13) ug/L				Lab File ID: 1114813.D		Analyzed: 11/18/11 10:58		
Bromofluorobenzene	30.00	99.4	75 - 120	12.209	12.205	0.0040	+/-1.000	
Dibromofluoromethane	30.00	91.3	85 - 115	6.893	6.889	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.0	70 - 120	7.385	7.381	0.0040	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.59	9.586	0.0040	+/-1.000	
GW8035-AB (1111162-09) ug/L				Lab File ID: 1116209.D		Analyzed: 11/18/11 11:52		
Bromofluorobenzene	30.00	99.0	75 - 120	12.205	12.205	0.0000	+/-1.000	
Dibromofluoromethane	30.00	90.8	85 - 115	6.889	6.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.6	70 - 120	7.381	7.381	0.0000	+/-1.000	
Toluene-d8	30.00	109	85 - 120	9.596	9.586	0.0100	+/-1.000	
GW8144-TB (1111162-10) ug/L				Lab File ID: 1116210.D		Analyzed: 11/18/11 12:18		
Bromofluorobenzene	30.00	97.9	75 - 120	12.206	12.205	0.0010	+/-1.000	
Dibromofluoromethane	30.00	92.0	85 - 115	6.889	6.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.5	70 - 120	7.381	7.381	0.0000	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.597	9.586	0.0110	+/-1.000	
GW0250 (1111148-01) ug/L				Lab File ID: 1114801.D		Analyzed: 11/18/11 12:45		
Bromofluorobenzene	30.00	99.4	75 - 120	12.206	12.205	0.0010	+/-1.000	
Dibromofluoromethane	30.00	91.0	85 - 115	6.889	6.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.5	70 - 120	7.391	7.381	0.0100	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.597	9.586	0.0110	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32501	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0289 (1111148-03) ug/L				Lab File ID: 1114803.D		Analyzed: 11/18/11 13:12		
Bromofluorobenzene	30.00	99.1	75 - 120	12.214	12.205	0.0090	+/-1.000	
Dibromofluoromethane	30.00	91.0	85 - 115	6.888	6.889	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.3	70 - 120	7.39	7.381	0.0090	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.595	9.586	0.0090	+/-1.000	
GW0290 (1111148-05) ug/L				Lab File ID: 1114805.D		Analyzed: 11/18/11 13:39		
Bromofluorobenzene	30.00	98.8	75 - 120	12.211	12.205	0.0060	+/-1.000	
Dibromofluoromethane	30.00	91.6	85 - 115	6.894	6.889	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.7	70 - 120	7.387	7.381	0.0060	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.592	9.586	0.0060	+/-1.000	
GW0331 (1111148-07) ug/L				Lab File ID: 1114807.D		Analyzed: 11/18/11 14:05		
Bromofluorobenzene	30.00	99.9	75 - 120	12.215	12.205	0.0100	+/-1.000	
Dibromofluoromethane	30.00	91.9	85 - 115	6.898	6.889	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.7	70 - 120	7.39	7.381	0.0090	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.596	9.586	0.0100	+/-1.000	
GW0332 (1111148-09) ug/L				Lab File ID: 1114809.D		Analyzed: 11/18/11 14:32		
Bromofluorobenzene	30.00	101	75 - 120	12.215	12.205	0.0100	+/-1.000	
Dibromofluoromethane	30.00	91.1	85 - 115	6.899	6.889	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.7	70 - 120	7.391	7.381	0.0100	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.596	9.586	0.0100	+/-1.000	
GW0352 (1111148-11) ug/L				Lab File ID: 1114811.D		Analyzed: 11/18/11 14:59		
Bromofluorobenzene	30.00	101	75 - 120	12.215	12.205	0.0100	+/-1.000	
Dibromofluoromethane	30.00	91.5	85 - 115	6.898	6.889	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	7.391	7.381	0.0100	+/-1.000	
Toluene-d8	30.00	113	85 - 120	9.596	9.586	0.0100	+/-1.000	
GW0288 (1111162-01) ug/L				Lab File ID: 1116201.D		Analyzed: 11/18/11 16:19		
Bromofluorobenzene	30.00	99.0	75 - 120	12.214	12.205	0.0090	+/-1.000	
Dibromofluoromethane	30.00	91.1	85 - 115	6.898	6.889	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.39	7.381	0.0090	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.595	9.586	0.0090	+/-1.000	
GW0344 (1111162-03) ug/L				Lab File ID: 1116203.D		Analyzed: 11/18/11 16:46		
Bromofluorobenzene	30.00	101	75 - 120	12.215	12.205	0.0100	+/-1.000	
Dibromofluoromethane	30.00	90.5	85 - 115	6.899	6.889	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.6	70 - 120	7.391	7.381	0.0100	+/-1.000	
Toluene-d8	30.00	118	85 - 120	9.596	9.586	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32501	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0345 (1111162-05) ug/L				Lab File ID: 1116205.D		Analyzed: 11/18/11 17:13		
Bromofluorobenzene	30.00	99.2	75 - 120	12.216	12.205	0.0110	+/-1.000	
Dibromofluoromethane	30.00	91.7	85 - 115	6.899	6.889	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	70 - 120	7.391	7.381	0.0100	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.597	9.586	0.0110	+/-1.000	
GW0351 (1111162-07) ug/L				Lab File ID: 1116207.D		Analyzed: 11/18/11 17:40		
Bromofluorobenzene	30.00	96.8	75 - 120	12.211	12.205	0.0060	+/-1.000	
Dibromofluoromethane	30.00	90.9	85 - 115	6.895	6.889	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.8	70 - 120	7.387	7.381	0.0060	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.592	9.586	0.0060	+/-1.000	
LCS Dup (1K18002-BSD1) ug/L				Lab File ID: 1118LCD1.D		Analyzed: 11/18/11 18:06		
Bromofluorobenzene	30.00	98.9	75 - 120	12.21	12.205	0.0050	+/-1.000	
Dibromofluoromethane	30.00	92.4	85 - 115	6.893	6.889	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.7	70 - 120	7.395	7.381	0.0140	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.601	9.586	0.0150	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32502	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K32502-CCV1) ug/L				Lab File ID: 1121CCV1.D		Analyzed: 11/21/11 06:37		
Bromofluorobenzene	30.00	102	80 - 120	12.211	12.211	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.4	80 - 120	6.894	6.894	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.2	80 - 120	7.396	7.396	0.0000	+/-1.000	
Toluene-d8	30.00	115	80 - 120	9.602	9.602	0.0000	+/-1.000	
LCS (1K21001-BS1) ug/L				Lab File ID: 1121LCS1.D		Analyzed: 11/21/11 07:04		
Bromofluorobenzene	30.00	101	75 - 120	12.209	12.211	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	92.2	85 - 115	6.892	6.894	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.9	70 - 120	7.394	7.396	-0.0020	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.6	9.602	-0.0020	+/-1.000	
Blank (1K21001-BLK1) ug/L				Lab File ID: 1121BLK1.D		Analyzed: 11/21/11 08:22		
Bromofluorobenzene	30.00	101	75 - 120	12.215	12.211	0.0040	+/-1.000	
Dibromofluoromethane	30.00	92.9	85 - 115	6.898	6.894	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.2	70 - 120	7.391	7.396	-0.0050	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.596	9.602	-0.0060	+/-1.000	
GW8145-TB (1111177-09) ug/L				Lab File ID: 1117709.D		Analyzed: 11/21/11 16:25		
Bromofluorobenzene	30.00	100	75 - 120	12.214	12.211	0.0030	+/-1.000	
Dibromofluoromethane	30.00	91.7	85 - 115	6.897	6.894	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	70 - 120	7.39	7.396	-0.0060	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.595	9.602	-0.0070	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32702	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K32702-CCV1) ug/L				Lab File ID: 1122CCV1.D		Analyzed: 11/22/11 06:58		
Bromofluorobenzene	30.00	103	80 - 120	12.219	12.219	0.0000	+/-1.000	
Dibromofluoromethane	30.00	90.7	80 - 120	6.912	6.912	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.2	80 - 120	7.405	7.405	0.0000	+/-1.000	
Toluene-d8	30.00	117	80 - 120	9.61	9.61	0.0000	+/-1.000	
LCS (1K22004-BS1) ug/L				Lab File ID: 1122LCS1.D		Analyzed: 11/22/11 07:25		
Bromofluorobenzene	30.00	98.8	75 - 120	12.224	12.219	0.0050	+/-1.000	
Dibromofluoromethane	30.00	90.1	85 - 115	6.908	6.912	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.1	70 - 120	7.4	7.405	-0.0050	+/-1.000	
Toluene-d8	30.00	113	85 - 120	9.605	9.61	-0.0050	+/-1.000	
Blank (1K22004-BLK1) ug/L				Lab File ID: 1122BLK1.D		Analyzed: 11/22/11 08:43		
Bromofluorobenzene	30.00	99.9	75 - 120	12.224	12.219	0.0050	+/-1.000	
Dibromofluoromethane	30.00	90.2	85 - 115	6.907	6.912	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	7.4	7.405	-0.0050	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.605	9.61	-0.0050	+/-1.000	
GW0274 (1111177-01) ug/L				Lab File ID: 1117701.D		Analyzed: 11/22/11 11:24		
Bromofluorobenzene	30.00	99.9	75 - 120	12.225	12.219	0.0060	+/-1.000	
Dibromofluoromethane	30.00	92.1	85 - 115	6.908	6.912	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.2	70 - 120	7.401	7.405	-0.0040	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.606	9.61	-0.0040	+/-1.000	
GW0275 (1111177-03) ug/L				Lab File ID: 1117703.D		Analyzed: 11/22/11 11:51		
Bromofluorobenzene	30.00	99.2	75 - 120	12.219	12.219	0.0000	+/-1.000	
Dibromofluoromethane	30.00	91.1	85 - 115	6.912	6.912	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.7	70 - 120	7.404	7.405	-0.0010	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.61	9.61	0.0000	+/-1.000	
GW0346 (1111177-05) ug/L				Lab File ID: 1117705.D		Analyzed: 11/22/11 12:18		
Bromofluorobenzene	30.00	99.0	75 - 120	12.22	12.219	0.0010	+/-1.000	
Dibromofluoromethane	30.00	91.4	85 - 115	6.904	6.912	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.0	70 - 120	7.406	7.405	0.0010	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.611	9.61	0.0010	+/-1.000	
GW0353 (1111177-07) ug/L				Lab File ID: 1117707.D		Analyzed: 11/22/11 12:44		
Bromofluorobenzene	30.00	99.7	75 - 120	12.224	12.219	0.0050	+/-1.000	
Dibromofluoromethane	30.00	90.2	85 - 115	6.907	6.912	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.6	70 - 120	7.4	7.405	-0.0050	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.615	9.61	0.0050	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K18002	Laboratory ID:	1K18002-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	72.6	72.6	40 - 140
Benzene	50.00	44.3	88.6	80 - 120
Bromobenzene	50.00	50.2	100	75 - 125
Bromochloromethane	50.00	45.6	91.1	65 - 130
Bromodichloromethane	50.00	38.5	77.0	75 - 120
Bromoform	50.00	51.8	104	70 - 130
Bromomethane	50.00	48.2	96.4	30 - 145
n-Butylbenzene	50.00	48.8	97.6	70 - 135
2-Butanone	100.0	81.2	81.2	30 - 150
sec-Butylbenzene	50.00	49.9	99.8	70 - 125
tert-Butylbenzene	50.00	50.2	100	70 - 130
Carbon disulfide	50.00	37.3	74.6	35 - 160
Carbon tetrachloride	50.00	41.4	82.7	65 - 140
Chlorobenzene	50.00	48.9	97.8	80 - 120
Chloroethane	50.00	48.4	96.7	60 - 135
Chloroform	50.00	40.5	81.0	65 - 135
Chloromethane	50.00	51.4	103	40 - 125
2-Chlorotoluene	50.00	47.3	94.6	75 - 125
4-Chlorotoluene	50.00	46.9	93.7	75 - 130
Dibromochloromethane	50.00	47.0	93.9	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.3	94.7	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.8	95.7	80 - 120
Dibromomethane	50.00	40.9	81.9	75 - 125
1,2-Dichlorobenzene	50.00	50.9	102	70 - 120
1,3-Dichlorobenzene	50.00	50.1	100	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	75 - 125
Dichlorodifluoromethane	50.00	47.4	94.8	30 - 155
1,1-Dichloroethane	50.00	43.5	87.0	70 - 135
1,2-Dichloroethane	50.00	38.8	77.6	70 - 130
1,1-Dichloroethene	50.00	41.0	81.9	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K18002	Laboratory ID:	1K18002-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	43.0	86.0	70 - 125
trans-1,2-Dichloroethene	50.00	36.5	73.0	60 - 140
1,2-Dichloropropane	50.00	44.2	88.3	75 - 125
1,3-Dichloropropane	50.00	48.3	96.6	75 - 125
2,2-Dichloropropane	50.00	41.1	82.2	70 - 135
1,1-Dichloropropene	50.00	42.5	84.9	75 - 130
cis-1,3-Dichloropropene	50.00	43.3	86.6	70 - 130
trans-1,3-Dichloropropene	50.00	40.9	81.7	55 - 140
Ethylbenzene	50.00	47.3	94.6	75 - 125
Hexachlorobutadiene	50.00	52.2	104	50 - 140
2-Hexanone	100.0	86.9	86.9	55 - 130
Isopropylbenzene	50.00	46.2	92.5	75 - 125
p-Isopropyltoluene	50.00	46.5	93.0	75 - 130
Methylene chloride	50.00	39.8	79.7	55 - 140
Naphthalene	50.00	47.9	95.7	55 - 140
4-Methyl-2-pentanone	100.0	82.9	82.9	60 - 135
Methyl t-Butyl Ether	50.00	34.6	69.2	65 - 125
n-Propylbenzene	50.00	48.6	97.1	70 - 130
Styrene	50.00	48.6	97.2	65 - 135
1,1,2,2-Tetrachloroethane	50.00	48.9	97.8	65 - 130
1,1,1,2-Tetrachloroethane	50.00	46.4	92.8	80 - 130
Tetrachloroethene	50.00	51.2	102	45 - 150
Toluene	50.00	48.5	96.9	75 - 120
1,2,3-Trichlorobenzene	50.00	53.7	107	55 - 140
1,2,4-Trichlorobenzene	50.00	49.4	98.9	65 - 135
1,1,2-Trichloroethane	50.00	48.4	96.8	75 - 125
1,1,1-Trichloroethane	50.00	41.6	83.2	65 - 130
Trichloroethene	50.00	43.4	86.8	70 - 125
Trichlorofluoromethane	50.00	40.3	80.6	60 - 145
1,2,3-Trichloropropane	50.00	45.2	90.4	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K18002	Laboratory ID:	1K18002-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	49.7	99.4	75 - 130
1,2,4-Trimethylbenzene	50.00	47.4	94.9	75 - 130
Vinyl chloride	50.00	52.3	105	50 - 145
Xylenes (total)	150.0	139	93.0	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	72.3	72.3	0.409	30	40 - 140
Benzene	50.00	46.0	92.0	3.69	30	80 - 120
Bromobenzene	50.00	51.0	102	1.70	30	75 - 125
Bromochloromethane	50.00	46.2	92.5	1.46	30	65 - 130
Bromodichloromethane	50.00	39.4	78.9	2.40	30	75 - 120
Bromoform	50.00	48.2	96.5	7.10	30	70 - 130
Bromomethane	50.00	46.1	92.2	4.48	30	30 - 145
n-Butylbenzene	50.00	48.9	97.8	0.216	30	70 - 135
2-Butanone	100.0	81.9	81.9	0.824	30	30 - 150
sec-Butylbenzene	50.00	50.7	101	1.52	30	70 - 125
tert-Butylbenzene	50.00	50.6	101	0.894	30	70 - 130
Carbon disulfide	50.00	35.7	71.3	4.48	30	35 - 160
Carbon tetrachloride	50.00	41.0	81.9	0.983	30	65 - 140
Chlorobenzene	50.00	48.2	96.3	1.48	30	80 - 120
Chloroethane	50.00	47.1	94.2	2.69	30	60 - 135
Chloroform	50.00	41.5	83.0	2.49	30	65 - 135
Chloromethane	50.00	51.6	103	0.466	30	40 - 125
2-Chlorotoluene	50.00	48.7	97.4	2.89	30	75 - 125
4-Chlorotoluene	50.00	48.0	96.1	2.50	30	75 - 130
Dibromochloromethane	50.00	45.0	89.9	4.33	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.7	89.4	5.67	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	46.9	93.8	1.98	30	80 - 120
Dibromomethane	50.00	41.9	83.9	2.39	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K18002	Laboratory ID:	1K18002-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	51.0	102	0.198	30	70 - 120
1,3-Dichlorobenzene	50.00	50.6	101	1.01	30	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	0.101	30	75 - 125
Dichlorodifluoromethane	50.00	44.9	89.8	5.35	30	30 - 155
1,1-Dichloroethane	50.00	44.1	88.3	1.47	30	70 - 135
1,2-Dichloroethane	50.00	40.1	80.3	3.38	30	70 - 130
1,1-Dichloroethene	50.00	39.6	79.1	3.48	30	70 - 130
cis-1,2-Dichloroethene	50.00	44.7	89.4	3.87	30	70 - 125
trans-1,2-Dichloroethene	50.00	43.1	86.2	16.5	30	60 - 140
1,2-Dichloropropane	50.00	45.6	91.2	3.27	30	75 - 125
1,3-Dichloropropane	50.00	47.1	94.1	2.59	30	75 - 125
2,2-Dichloropropane	50.00	36.6	73.2	11.6	30	70 - 135
1,1-Dichloropropene	50.00	42.1	84.2	0.808	30	75 - 130
cis-1,3-Dichloropropene	50.00	43.9	87.9	1.52	30	70 - 130
trans-1,3-Dichloropropene	50.00	38.6	77.3	5.61	30	55 - 140
Ethylbenzene	50.00	46.8	93.7	0.973	30	75 - 125
Hexachlorobutadiene	50.00	38.1	76.3	31.2 *	30	50 - 140
2-Hexanone	100.0	85.3	85.3	1.81	30	55 - 130
Isopropylbenzene	50.00	45.1	90.2	2.49	30	75 - 125
p-Isopropyltoluene	50.00	46.8	93.5	0.553	30	75 - 130
Methylene chloride	50.00	39.9	79.8	0.116	30	55 - 140
Naphthalene	50.00	40.1	80.3	17.6	30	55 - 140
4-Methyl-2-pentanone	100.0	85.8	85.8	3.51	30	60 - 135
Methyl t-Butyl Ether	50.00	40.1	80.1	14.6	30	65 - 125
n-Propylbenzene	50.00	49.1	98.3	1.17	30	70 - 130
Styrene	50.00	48.0	96.0	1.20	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.1	100	2.36	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	45.5	91.0	2.00	30	80 - 130
Tetrachloroethene	50.00	47.9	95.8	6.67	30	45 - 150
Toluene	50.00	47.8	95.5	1.49	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K18002	Laboratory ID:	1K18002-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	43.7	87.3	20.7	30	55 - 140
1,2,4-Trichlorobenzene	50.00	44.9	89.8	9.58	30	65 - 135
1,1,2-Trichloroethane	50.00	47.8	95.7	1.19	30	75 - 125
1,1,1-Trichloroethane	50.00	41.0	81.9	1.46	30	65 - 130
Trichloroethene	50.00	43.6	87.3	0.533	30	70 - 125
Trichlorofluoromethane	50.00	38.4	76.7	4.93	30	60 - 145
1,2,3-Trichloropropane	50.00	44.6	89.2	1.37	30	75 - 125
1,3,5-Trimethylbenzene	50.00	50.6	101	1.80	30	75 - 130
1,2,4-Trimethylbenzene	50.00	48.7	97.4	2.60	30	75 - 130
Vinyl chloride	50.00	50.4	101	3.71	30	50 - 145
Xylenes (total)	150.0	138	92.0	1.01	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21001	Laboratory ID:	1K21001-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	71.5	71.5	40 - 140
Benzene	50.00	46.9	93.8	80 - 120
Bromobenzene	50.00	52.3	105	75 - 125
Bromochloromethane	50.00	48.6	97.3	65 - 130
Bromodichloromethane	50.00	41.3	82.5	75 - 120
Bromoform	50.00	55.5	111	70 - 130
Bromomethane	50.00	56.0	112	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	80.1	80.1	30 - 150
sec-Butylbenzene	50.00	53.1	106	70 - 125
tert-Butylbenzene	50.00	52.0	104	70 - 130
Carbon disulfide	50.00	39.6	79.2	35 - 160
Carbon tetrachloride	50.00	44.1	88.1	65 - 140
Chlorobenzene	50.00	51.7	103	80 - 120
Chloroethane	50.00	51.0	102	60 - 135
Chloroform	50.00	43.3	86.7	65 - 135
Chloromethane	50.00	50.5	101	40 - 125
2-Chlorotoluene	50.00	48.2	96.4	75 - 125
4-Chlorotoluene	50.00	48.3	96.7	75 - 130
Dibromochloromethane	50.00	50.3	101	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.5	93.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.7	99.5	80 - 120
Dibromomethane	50.00	43.3	86.6	75 - 125
1,2-Dichlorobenzene	50.00	52.8	106	70 - 120
1,3-Dichlorobenzene	50.00	52.9	106	75 - 125
1,4-Dichlorobenzene	50.00	53.1	106	75 - 125
Dichlorodifluoromethane	50.00	47.8	95.5	30 - 155
1,1-Dichloroethane	50.00	46.0	92.0	70 - 135
1,2-Dichloroethane	50.00	40.7	81.4	70 - 130
1,1-Dichloroethene	50.00	43.3	86.7	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21001	Laboratory ID:	1K21001-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	46.5	92.9	70 - 125
trans-1,2-Dichloroethene	50.00	46.1	92.3	60 - 140
1,2-Dichloropropane	50.00	46.6	93.2	75 - 125
1,3-Dichloropropane	50.00	49.0	98.0	75 - 125
2,2-Dichloropropane	50.00	43.9	87.7	70 - 135
1,1-Dichloropropene	50.00	44.5	89.0	75 - 130
cis-1,3-Dichloropropene	50.00	46.6	93.2	70 - 130
trans-1,3-Dichloropropene	50.00	42.1	84.3	55 - 140
Ethylbenzene	50.00	49.5	98.9	75 - 125
Hexachlorobutadiene	50.00	51.8	104	50 - 140
2-Hexanone	100.0	85.3	85.3	55 - 130
Isopropylbenzene	50.00	48.7	97.5	75 - 125
p-Isopropyltoluene	50.00	49.9	99.8	75 - 130
Methylene chloride	50.00	42.5	84.9	55 - 140
Naphthalene	50.00	45.1	90.2	55 - 140
4-Methyl-2-pentanone	100.0	82.3	82.3	60 - 135
Methyl t-Butyl Ether	50.00	42.1	84.2	65 - 125
n-Propylbenzene	50.00	50.0	99.9	70 - 130
Styrene	50.00	51.6	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	48.4	96.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.6	101	80 - 130
Tetrachloroethene	50.00	54.5	109	45 - 150
Toluene	50.00	50.7	101	75 - 120
1,2,3-Trichlorobenzene	50.00	54.6	109	55 - 140
1,2,4-Trichlorobenzene	50.00	50.3	101	65 - 135
1,1,2-Trichloroethane	50.00	50.0	100	75 - 125
1,1,1-Trichloroethane	50.00	43.9	87.7	65 - 130
Trichloroethene	50.00	45.6	91.3	70 - 125
Trichlorofluoromethane	50.00	42.1	84.2	60 - 145
1,2,3-Trichloropropane	50.00	44.8	89.5	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21001	Laboratory ID:	1K21001-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	51.3	103	75 - 130
1,2,4-Trimethylbenzene	50.00	49.5	99.0	75 - 130
Vinyl chloride	50.00	52.3	105	50 - 145
Xylenes (total)	150.0	147	98.3	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K22004	Laboratory ID:	1K22004-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	69.5	69.5	40 - 140
Benzene	50.00	45.9	91.9	80 - 120
Bromobenzene	50.00	52.3	105	75 - 125
Bromochloromethane	50.00	46.2	92.5	65 - 130
Bromodichloromethane	50.00	38.7	77.3	75 - 120
Bromoform	50.00	53.1	106	70 - 130
Bromomethane	50.00	52.7	105	30 - 145
n-Butylbenzene	50.00	50.0	100	70 - 135
2-Butanone	100.0	79.8	79.8	30 - 150
sec-Butylbenzene	50.00	52.9	106	70 - 125
tert-Butylbenzene	50.00	51.6	103	70 - 130
Carbon disulfide	50.00	38.3	76.6	35 - 160
Carbon tetrachloride	50.00	42.2	84.4	65 - 140
Chlorobenzene	50.00	49.9	99.7	80 - 120
Chloroethane	50.00	49.9	99.8	60 - 135
Chloroform	50.00	41.1	82.1	65 - 135
Chloromethane	50.00	50.4	101	40 - 125
2-Chlorotoluene	50.00	48.7	97.3	75 - 125
4-Chlorotoluene	50.00	47.5	94.9	75 - 130
Dibromochloromethane	50.00	47.7	95.5	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.2	94.3	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.4	98.7	80 - 120
Dibromomethane	50.00	42.3	84.5	75 - 125
1,2-Dichlorobenzene	50.00	52.3	105	70 - 120
1,3-Dichlorobenzene	50.00	51.8	104	75 - 125
1,4-Dichlorobenzene	50.00	52.6	105	75 - 125
Dichlorodifluoromethane	50.00	48.4	96.8	30 - 155
1,1-Dichloroethane	50.00	44.0	87.9	70 - 135
1,2-Dichloroethane	50.00	38.7	77.4	70 - 130
1,1-Dichloroethene	50.00	42.4	84.8	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K22004	Laboratory ID:	1K22004-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	44.5	89.0	70 - 125
trans-1,2-Dichloroethene	50.00	40.6	81.2	60 - 140
1,2-Dichloropropane	50.00	45.4	90.7	75 - 125
1,3-Dichloropropane	50.00	48.1	96.1	75 - 125
2,2-Dichloropropane	50.00	42.4	84.8	70 - 135
1,1-Dichloropropene	50.00	43.3	86.6	75 - 130
cis-1,3-Dichloropropene	50.00	44.9	89.7	70 - 130
trans-1,3-Dichloropropene	50.00	41.3	82.5	55 - 140
Ethylbenzene	50.00	49.1	98.1	75 - 125
Hexachlorobutadiene	50.00	50.5	101	50 - 140
2-Hexanone	100.0	87.7	87.7	55 - 130
Isopropylbenzene	50.00	47.7	95.4	75 - 125
p-Isopropyltoluene	50.00	48.7	97.5	75 - 130
Methylene chloride	50.00	40.6	81.2	55 - 140
Naphthalene	50.00	45.5	91.0	55 - 140
4-Methyl-2-pentanone	100.0	82.8	82.8	60 - 135
Methyl t-Butyl Ether	50.00	38.9	77.8	65 - 125
n-Propylbenzene	50.00	50.7	101	70 - 130
Styrene	50.00	50.0	100	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.6	99.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.1	96.1	80 - 130
Tetrachloroethene	50.00	53.0	106	45 - 150
Toluene	50.00	49.7	99.5	75 - 120
1,2,3-Trichlorobenzene	50.00	51.6	103	55 - 140
1,2,4-Trichlorobenzene	50.00	49.9	99.8	65 - 135
1,1,2-Trichloroethane	50.00	49.4	98.8	75 - 125
1,1,1-Trichloroethane	50.00	41.7	83.4	65 - 130
Trichloroethene	50.00	44.0	88.1	70 - 125
Trichlorofluoromethane	50.00	39.8	79.6	60 - 145
1,2,3-Trichloropropane	50.00	45.4	90.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K22004	Laboratory ID:	1K22004-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	51.5	103	75 - 130
1,2,4-Trimethylbenzene	50.00	49.1	98.1	75 - 130
Vinyl chloride	50.00	51.8	104	50 - 145
Xylenes (total)	150.0	145	96.3	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K18002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/18/11 00:00	5.00	5.00
GW0289	1111148-03	11/18/11 00:00	5.00	5.00
GW0290	1111148-05	11/18/11 00:00	5.00	5.00
GW0331	1111148-07	11/18/11 00:00	5.00	5.00
GW0332	1111148-09	11/18/11 00:00	5.00	5.00
GW0352	1111148-11	11/18/11 00:00	5.00	5.00
GW8143-TB	1111148-13	11/18/11 00:00	5.00	5.00
GW0288	1111162-01	11/18/11 00:00	5.00	5.00
GW0344	1111162-03	11/18/11 00:00	5.00	5.00
GW0345	1111162-05	11/18/11 00:00	5.00	5.00
GW0351	1111162-07	11/18/11 00:00	5.00	5.00
GW8035-AB	1111162-09	11/18/11 00:00	5.00	5.00
GW8144-TB	1111162-10	11/18/11 00:00	5.00	5.00
Blank	1K18002-BLK1	11/18/11 00:00	5.00	5.00
LCS	1K18002-BS1	11/18/11 00:00	5.00	5.00
LCS Dup	1K18002-BSD1	11/18/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K21001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8145-TB	1111177-09	11/21/11 00:00	5.00	5.00
Blank	1K21001-BLK1	11/21/11 00:00	5.00	5.00
LCS	1K21001-BS1	11/21/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K22004 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0274	1111177-01	11/22/11 00:00	5.00	5.00
GW0275	1111177-03	11/22/11 00:00	5.00	5.00
GW0346	1111177-05	11/22/11 00:00	5.00	5.00
GW0353	1111177-07	11/22/11 00:00	5.00	5.00
Blank	1K22004-BLK1	11/22/11 00:00	5.00	5.00
LCS	1K22004-BS1	11/22/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0913TUN1.D	Injection Date:	09/13/11
Instrument ID:	MS-VOA6	Injection Time:	13:38
Sequence:	1I25809	Lab Sample ID:	1I25809-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29.6	PASS
75	30 - 60% of 95	54.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.49	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	58.8	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1118TUN1.D	Injection Date:	11/18/11
Instrument ID:	MS-VOA6	Injection Time:	07:26
Sequence:	1K32501	Lab Sample ID:	1K32501-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	30.6	PASS
75	30 - 60% of 95	56.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	53.8	PASS
175	5 - 9% of 174	7.86	PASS
176	95 - 101% of 174	95.8	PASS
177	5 - 9% of 176	6.53	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1121TUN1.D	Injection Date:	11/21/11
Instrument ID:	MS-VOA6	Injection Time:	06:10
Sequence:	1K32502	Lab Sample ID:	1K32502-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.3	PASS
75	30 - 60% of 95	50.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.73	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	74.8	PASS
175	5 - 9% of 174	7.79	PASS
176	95 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.58	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1122TUN1.D	Injection Date:	11/22/11
Instrument ID:	MS-VOA6	Injection Time:	06:31
Sequence:	1K32702	Lab Sample ID:	1K32702-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	28.9	PASS
75	30 - 60% of 95	53	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	59.6	PASS
175	5 - 9% of 174	7.23	PASS
176	95 - 101% of 174	98.3	PASS
177	5 - 9% of 176	6.67	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25809	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25809-TUN1	0913TUN1.D	09/13/11 13:38
Cal Standard	1I25809-CAL1	0913CAL1.D	09/13/11 14:57
Cal Standard	1I25809-CAL2	0913CAL2.D	09/13/11 15:23
Cal Standard	1I25809-CAL3	0913CAL3.D	09/13/11 15:50
Cal Standard	1I25809-CAL4	0913CAL4.D	09/13/11 16:17
Cal Standard	1I25809-CAL5	0913CAL5.D	09/13/11 16:44
Cal Standard	1I25809-CAL6	0913CAL6.D	09/13/11 17:10
Cal Standard	1I25809-CAL7	0913CAL7.D	09/13/11 17:37
Cal Standard	1I25809-CAL8	0913CAL8.D	09/13/11 18:04
Cal Standard	1I25809-CAL9	0913CAL9.D	09/13/11 18:30
Initial Cal Check	1I25809-ICV2	0913ICV2.D	09/13/11 19:51

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32501	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1K32501-TUN1	1118TUN1.D	11/18/11 07:26
Calibration Check	1K32501-CCV1	1118CCV1.D	11/18/11 07:52
LCS	1K18002-BS1	1118LCS1.D	11/18/11 08:19
Blank	1K18002-BLK1	1118BLK1.D	11/18/11 09:38
GW8143-TB	1111148-13	1114813.D	11/18/11 10:58
GW8035-AB	1111162-09	1116209.D	11/18/11 11:52
GW8144-TB	1111162-10	1116210.D	11/18/11 12:18
GW0250	1111148-01	1114801.D	11/18/11 12:45
GW0289	1111148-03	1114803.D	11/18/11 13:12
GW0290	1111148-05	1114805.D	11/18/11 13:39
GW0331	1111148-07	1114807.D	11/18/11 14:05
GW0332	1111148-09	1114809.D	11/18/11 14:32
GW0352	1111148-11	1114811.D	11/18/11 14:59
GW0288	1111162-01	1116201.D	11/18/11 16:19
GW0344	1111162-03	1116203.D	11/18/11 16:46
GW0345	1111162-05	1116205.D	11/18/11 17:13
GW0351	1111162-07	1116207.D	11/18/11 17:40
LCS Dup	1K18002-BSD1	1118LCD1.D	11/18/11 18:06

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32502	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1K32502-TUN1	1121TUN1.D	11/21/11 06:10
Calibration Check	1K32502-CCV1	1121CCV1.D	11/21/11 06:37
LCS	1K21001-BS1	1121LCS1.D	11/21/11 07:04
Blank	1K21001-BLK1	1121BLK1.D	11/21/11 08:22
GW8145-TB	1111177-09	1117709.D	11/21/11 16:25

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32702	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1K32702-TUN1	1122TUN1.D	11/22/11 06:31
Calibration Check	1K32702-CCV1	1122CCV1.D	11/22/11 06:58
LCS	1K22004-BS1	1122LCS1.D	11/22/11 07:25
Blank	1K22004-BLK1	1122BLK1.D	11/22/11 08:43
GW0274	1111177-01	1117701.D	11/22/11 11:24
GW0275	1111177-03	1117703.D	11/22/11 11:51
GW0346	1111177-05	1117705.D	11/22/11 12:18
GW0353	1111177-07	1117707.D	11/22/11 12:44

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32501	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1K32501-CCV1)			Lab File ID: 1118CCV1.D			Analyzed: 11/18/11 07:52			
Fluorobenzene	828781	7.903	858032	7.903	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	352504	11.014	403998	11.013	87	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	285343	13.406	333506	13.405	86	50 - 200	0.0010	+/-0.50	
LCS (1K18002-BS1)			Lab File ID: 1118LCS1.D			Analyzed: 11/18/11 08:19			
Fluorobenzene	821071	7.903	828781	7.903	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	345425	11.014	352504	11.014	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	284185	13.406	285343	13.406	100	50 - 200	0.0000	+/-0.50	
Blank (1K18002-BLK1)			Lab File ID: 1118BLK1.D			Analyzed: 11/18/11 09:38			
Fluorobenzene	804355	7.903	828781	7.903	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	346834	11.014	352504	11.014	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	283427	13.406	285343	13.406	99	50 - 200	0.0000	+/-0.50	
GW8143-TB (1111148-13)			Lab File ID: 1114813.D			Analyzed: 11/18/11 10:58			
Fluorobenzene	784309	7.907	828781	7.903	95	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	333845	11.018	352504	11.014	95	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	269023	13.41	285343	13.406	94	50 - 200	0.0040	+/-0.50	
GW8035-AB (1111162-09)			Lab File ID: 1116209.D			Analyzed: 11/18/11 11:52			
Fluorobenzene	780669	7.903	828781	7.903	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	335801	11.014	352504	11.014	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	270611	13.406	285343	13.406	95	50 - 200	0.0000	+/-0.50	
GW8144-TB (1111162-10)			Lab File ID: 1116210.D			Analyzed: 11/18/11 12:18			
Fluorobenzene	775573	7.913	828781	7.903	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	335815	11.014	352504	11.014	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	269505	13.407	285343	13.406	94	50 - 200	0.0010	+/-0.50	
GW0250 (1111148-01)			Lab File ID: 1114801.D			Analyzed: 11/18/11 12:45			
Fluorobenzene	781535	7.913	828781	7.903	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	329858	11.014	352504	11.014	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	268564	13.407	285343	13.406	94	50 - 200	0.0010	+/-0.50	
GW0289 (1111148-03)			Lab File ID: 1114803.D			Analyzed: 11/18/11 13:12			
Fluorobenzene	777127	7.912	828781	7.903	94	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	337955	11.023	352504	11.014	96	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	274929	13.415	285343	13.406	96	50 - 200	0.0090	+/-0.50	
GW0290 (1111148-05)			Lab File ID: 1114805.D			Analyzed: 11/18/11 13:39			
Fluorobenzene	772503	7.908	828781	7.903	93	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	336314	11.02	352504	11.014	95	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	267993	13.412	285343	13.406	94	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32501	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0331 (1111148-07)			Lab File ID: 1114807.D			Analyzed: 11/18/11 14:05			
Fluorobenzene	774803	7.912	828781	7.903	93	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	334445	11.023	352504	11.014	95	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	272241	13.416	285343	13.406	95	50 - 200	0.0100	+/-0.50	
GW0332 (1111148-09)			Lab File ID: 1114809.D			Analyzed: 11/18/11 14:32			
Fluorobenzene	773867	7.913	828781	7.903	93	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	327898	11.024	352504	11.014	93	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	268404	13.416	285343	13.406	94	50 - 200	0.0100	+/-0.50	
GW0352 (1111148-11)			Lab File ID: 1114811.D			Analyzed: 11/18/11 14:59			
Fluorobenzene	774819	7.912	828781	7.903	93	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	329031	11.024	352504	11.014	93	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	276097	13.416	285343	13.406	97	50 - 200	0.0100	+/-0.50	
GW0288 (1111162-01)			Lab File ID: 1116201.D			Analyzed: 11/18/11 16:19			
Fluorobenzene	790765	7.912	828781	7.903	95	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	345386	11.023	352504	11.014	98	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	277589	13.415	285343	13.406	97	50 - 200	0.0090	+/-0.50	
GW0344 (1111162-03)			Lab File ID: 1116203.D			Analyzed: 11/18/11 16:46			
Fluorobenzene	792411	7.913	828781	7.903	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	333664	11.024	352504	11.014	95	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	284978	13.416	285343	13.406	100	50 - 200	0.0100	+/-0.50	
GW0345 (1111162-05)			Lab File ID: 1116205.D			Analyzed: 11/18/11 17:13			
Fluorobenzene	788157	7.913	828781	7.903	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	340238	11.024	352504	11.014	97	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	277047	13.417	285343	13.406	97	50 - 200	0.0110	+/-0.50	
GW0351 (1111162-07)			Lab File ID: 1116207.D			Analyzed: 11/18/11 17:40			
Fluorobenzene	790020	7.909	828781	7.903	95	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	338212	11.02	352504	11.014	96	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	278102	13.412	285343	13.406	97	50 - 200	0.0060	+/-0.50	
LCS Dup (1K18002-BSD1)			Lab File ID: 1118LCD1.D			Analyzed: 11/18/11 18:06			
Fluorobenzene	808524	7.917	828781	7.903	98	50 - 200	0.0140	+/-0.50	
Chlorobenzene-d5	355530	11.019	352504	11.014	101	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	280813	13.411	285343	13.406	98	50 - 200	0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32502	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1K32502-CCV1)			Lab File ID: 1121CCV1.D			Analyzed: 11/21/11 06:37			
Fluorobenzene	870024	7.918	858032	7.903	101	50 - 200	0.0150	+/-0.50	
Chlorobenzene-d5	372231	11.02	403998	11.013	92	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	311447	13.412	333506	13.405	93	50 - 200	0.0070	+/-0.50	
LCS (1K21001-BS1)			Lab File ID: 1121LCS1.D			Analyzed: 11/21/11 07:04			
Fluorobenzene	861803	7.916	870024	7.918	99	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	369389	11.017	372231	11.02	99	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	310559	13.41	311447	13.412	100	50 - 200	-0.0020	+/-0.50	
Blank (1K21001-BLK1)			Lab File ID: 1121BLK1.D			Analyzed: 11/21/11 08:22			
Fluorobenzene	834070	7.912	870024	7.918	96	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	367219	11.024	372231	11.02	99	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	307073	13.416	311447	13.412	99	50 - 200	0.0040	+/-0.50	
GW8145-TB (1111177-09)			Lab File ID: 1117709.D			Analyzed: 11/21/11 16:25			
Fluorobenzene	817228	7.911	870024	7.918	94	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	358382	11.023	372231	11.02	96	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	296750	13.415	311447	13.412	95	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32702	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1K32702-CCV1)			Lab File ID: 1122CCV1.D			Analyzed: 11/22/11 06:58			
Fluorobenzene	907074	7.926	858032	7.903	106	50 - 200	0.0230	+/-0.50	
Chlorobenzene-d5	370636	11.028	403998	11.013	92	50 - 200	0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	314433	13.42	333506	13.405	94	50 - 200	0.0150	+/-0.50	
LCS (1K22004-BS1)			Lab File ID: 1122LCS1.D			Analyzed: 11/22/11 07:25			
Fluorobenzene	913752	7.922	907074	7.926	101	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	384489	11.033	370636	11.028	104	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	316474	13.425	314433	13.42	101	50 - 200	0.0050	+/-0.50	
Blank (1K22004-BLK1)			Lab File ID: 1122BLK1.D			Analyzed: 11/22/11 08:43			
Fluorobenzene	861191	7.922	907074	7.926	95	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	364011	11.033	370636	11.028	98	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	302353	13.425	314433	13.42	96	50 - 200	0.0050	+/-0.50	
GW0274 (1111177-01)			Lab File ID: 1117701.D			Analyzed: 11/22/11 11:24			
Fluorobenzene	846142	7.923	907074	7.926	93	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	363974	11.034	370636	11.028	98	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	302599	13.426	314433	13.42	96	50 - 200	0.0060	+/-0.50	
GW0275 (1111177-03)			Lab File ID: 1117703.D			Analyzed: 11/22/11 11:51			
Fluorobenzene	847184	7.926	907074	7.926	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	358713	11.037	370636	11.028	97	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	296844	13.43	314433	13.42	94	50 - 200	0.0100	+/-0.50	
GW0346 (1111177-05)			Lab File ID: 1117705.D			Analyzed: 11/22/11 12:18			
Fluorobenzene	846030	7.928	907074	7.926	93	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	361341	11.029	370636	11.028	97	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	291624	13.421	314433	13.42	93	50 - 200	0.0010	+/-0.50	
GW0353 (1111177-07)			Lab File ID: 1117707.D			Analyzed: 11/22/11 12:44			
Fluorobenzene	843020	7.931	907074	7.926	93	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	355620	11.033	370636	11.028	96	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	294042	13.425	314433	13.42	94	50 - 200	0.0050	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	~~0.2025603~~	2	0.1457111	4	0.129836	10	0.1096288	20	0.1172883	100	0.1161553
Acrolein	2.502	5.512186E-02	5.005	4.513846E-02	10.01	4.647939E-02	25.02	4.550316E-02	50.05	4.562258E-02	250.2	4.706066E-02
Acrylonitrile	2.498	9.507946E-02	4.997	9.245133E-02	9.994	9.605667E-02	24.98	9.240335E-02	49.97	0.0973469	249.8	0.1006377
Benzene	0.5	1.012489	1	1.019346	2	1.012249	5	1.028983	10	1.048885	50	1.073407
Bromobenzene	0.5	0.6520267	1	0.6703422	2	0.6835796	5	0.6802636	10	0.6432074	50	0.6990824
Bromochloromethane	0.5	0.1277608	1	0.1425862	2	0.1375576	5	0.1356523	10	0.1427114	50	0.1492161
Tert-Amyl Methyl Ether	0.5	0.9161638	1	0.8802777	2	0.8906859	5	0.8956939	10	0.9091681	50	0.9478054
Bromodichloromethane	0.5	0.3916978	1	0.3932988	2	0.4145342	5	0.3945168	10	0.4054259	50	0.4255933
Bromoform	0.5	0.2752893	1	0.3015285	2	0.3182005	5	0.3170214	10	0.3372792	50	0.3906046
Bromomethane	0.5	0.1566235	1	0.1343555	2	0.136196	5	0.1428968	10	0.1463382	50	0.1578632
Bromofluorobenzene	30	0.8951082	35	0.8715383	40	0.8804214	50	0.847972	60	0.8349991	70	0.8438784
n-Butylbenzene	0.5	1.843014	1	2.07058	2	1.874533	5	1.8611	10	1.908563	50	2.039616
2-Butanone	1	0.2185913	2	0.211796	4	0.2139028	10	0.203933	20	0.2114883	100	0.2227151
sec-Butylbenzene	0.5	2.461807	1	2.512994	2	2.492873	5	2.460693	10	2.515377	50	2.705586
tert-Butylbenzene	0.5	1.97378	1	1.88858	2	2.002003	5	1.958609	10	1.960425	50	2.116269
Carbon disulfide	0.5	0.7028582	1	0.62755	2	0.6048156	5	0.6152078	10	0.6705723	50	0.6691913
Carbon tetrachloride	0.5	0.2963466	1	0.3115722	2	0.3214618	5	0.3327848	10	0.3487612	50	0.3656545
Chlorobenzene	0.5	1.445381	1	1.426059	2	1.429195	5	1.433918	10	1.422227	50	1.512426
Chloroethane	0.5	0.1607268	1	0.1591843	2	0.1559997	5	0.159022	10	0.1665614	50	0.1625335
Chloroform	0.5	0.5570148	1	0.5246148	2	0.5195337	5	0.5057294	10	0.5004336	50	0.5217724
2-Chloroethyl vinyl ether	0.9975	0.1792576	1.995	0.1885999	3.99	0.1889613	9.975	0.1964874	19.95	0.201442	99.75	0.2144144
Chloromethane	0.5	0.3054575	1	0.2771807	2	0.284681	5	0.2643817	10	0.3010329	50	0.3031173
1-Chlorohexane	0.5	1.003537	1	0.8934638	2	0.7790349	5	0.7227957	10	0.7002461	50	0.7353481
2-Chlorotoluene	0.5	2.104186	1	2.087544	2	2.107453	5	2.074577	10	2.041034	50	2.181487
4-Chlorotoluene	0.5	2.390102	1	2.410669	2	2.383228	5	2.380563	10	2.36417	50	2.55075
Cyclohexane	0.5	0.5181371	1	0.4928189	2	0.4986614	5	0.4805975	10	0.5031449	50	0.5024042
Dibromochloromethane	0.5	0.5118308	1	0.5404977	2	0.5669012	5	0.56378	10	0.5735861	50	0.6481355
1,2-Dibromo-3-chloropropane	0.5	0.1331146	1	0.1351693	2	0.1416032	5	0.1291551	10	0.1325067	50	0.1482053
1,2-Dibromoethane (EDB)	0.5	0.5714543	1	0.5492779	2	0.5720933	5	0.5653543	10	0.5607722	50	0.6045733
Dibromomethane	0.5	0.1880594	1	0.1957956	2	0.1943835	5	0.1922236	10	0.1936848	50	0.2017494
1,2-Dichlorobenzene	0.5	1.043062	1	1.151465	2	1.170164	5	1.124382	10	1.138074	50	1.195595

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 1258002

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 9/13/11_14:57 9/13/11_18:30

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	1.166965	1	1.204071	2	1.201804	5	1.182671	10	1.172136	50	1.249796
1,4-Dichlorobenzene	0.5	1.206701	1	1.21887	2	1.250038	5	1.208776	10	1.190408	50	1.264017
Dichlorodifluoromethane	0.5	0.2286063	1	0.2222296	2	0.2251319	5	0.2082929	10	0.2692399	50	0.274137
1,1-Dichloroethane	0.5	0.5403927	1	0.5468138	2	0.5510232	5	0.5598113	10	0.5660451	50	0.5760678
1,2-Dichloroethane	0.5	0.5091653	1	0.5133103	2	0.535132	5	0.5264139	10	0.5289745	50	0.5375092
1,1-Dichloroethene	0.5	0.2215123	1	0.1901946	2	0.1936768	5	0.1835806	10	0.1809237	50	0.1920659
cis-1,2-Dichloroethene	0.5	0.2759689	1	0.2809375	2	0.275684	5	0.2810175	10	0.2794099	50	0.2857354
trans-1,2-Dichloroethene	0.5	0.2543393	1	0.2569625	2	0.2506923	5	0.2396904	10	0.2432336	50	0.2414877
1,2-Dichloroethene (total)	1	0.2651541	2	0.26895	4	0.2631881	10	0.2603539	20	0.2613217	100	0.2636116
1,2-Dichloropropane	0.5	0.3129687	1	0.2920712	2	0.314964	5	0.3197433	10	0.3175197	50	0.3227427
1,3-Dichloropropane	0.5	0.8999091	1	0.9157803	2	0.9604611	5	0.9358264	10	0.9264139	50	0.9791751
2,2-Dichloropropane	0.5	0.4652106	1	0.4221918	2	0.4329419	5	0.410635	10	0.4295269	50	0.4285419
1,1-Dichloropropene	0.5	0.3910023	1	0.3838045	2	0.3976261	5	0.3911952	10	0.3995013	50	0.3999589
cis-1,3-Dichloropropene	0.5	0.463611	1	0.4327107	2	0.4665514	5	0.4660316	10	0.461037	50	0.4868566
trans-1,3-Dichloropropene	0.5	1.021709	1	0.9951684	2	1.053659	5	1.046248	10	1.05344	50	1.097596
Diisopropyl Ether	0.5	1.396814	1	1.292429	2	1.347844	5	1.348943	10	1.376833	50	1.386673
Ethylbenzene	0.5	2.457479	1	2.380473	2	2.475882	5	2.469799	10	2.459088	50	2.642813
Ethyl tert-Butyl Ether	0.5	1.12008	1	1.086968	2	1.14498	5	1.122042	10	1.135052	50	1.183627
Ethyl Methacrylate	0.5	0.9186823	1	0.9131462	2	0.8967468	5	0.8920737	10	0.8816809	50	0.9623694
Hexachlorobutadiene	0.5	0.3121058	1	0.2844149	2	0.2816563	5	0.2708137	10	0.2880372	50	0.3057296
2-Hexanone	1	0.6942306	2	0.6203614	4	0.6418341	10	0.5964609	20	0.622888	100	0.682274
Iodomethane	0.5	~~0.1446611~~	1	0.1803929	2	0.192522	5	0.2261244	10	0.2506887	50	0.2997653
Isopropylbenzene	0.5	1.963069	1	2.060213	2	2.029325	5	2.043946	10	2.062737	50	2.231013
p-Isopropyltoluene	0.5	2.109424	1	2.114073	2	2.118759	5	2.091327	10	2.094262	50	2.222574
Methylene chloride	0.5	0.3300081	1	0.2647493	2	0.2436774	5	0.2293131	10	0.2281537	50	0.220352
Methyl Acetate	0.5	0.2755516	1	0.30078	2	0.2736329	5	0.2335647	10	0.2429932	50	0.2577989
Methylcyclohexane	0.5	0.3502468	1	0.3188125	2	0.3190488	5	0.3203237	10	0.3291036	50	0.3437828
Naphthalene	0.5	1.64271	1	1.535768	2	1.579974	5	1.449095	10	1.456422	50	1.575249
Methyl Methacrylate	0.5	0.4182653	1	0.3884151	2	0.4153615	5	0.3912162	10	0.4044113	50	0.412795
4-Methyl-2-pentanone	1	0.4113452	2	0.4094188	4	0.4197394	10	0.4081596	20	0.4078632	100	0.4339199
Methyl t-Butyl Ether	0.5	0.8135796	1	0.8137488	2	0.8448218	5	0.8349479	10	0.8366813	50	0.8440215

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11_14:57 9/13/11_18:30

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	3.333283	1	3.242529	2	3.29175	5	3.17809	10	3.204302	50	3.484074
Styrene	0.5	1.508159	1	1.539544	2	1.576131	5	1.56831	10	1.602108	50	1.704637
1,1,2,2-Tetrachloroethane	0.5	0.8293924	1	0.858749	2	0.8920637	5	0.8218323	10	0.836417	50	0.8977279
1,1,1,2-Tetrachloroethane	0.5	0.4799916	1	0.5001817	2	0.5138307	5	0.4987747	10	0.4942518	50	0.5434963
tert-Butyl alcohol	2.5	3.432919E-02	5	3.239695E-02	10	3.288559E-02	25	3.132331E-02	50	2.930228E-02	250	3.006676E-02
Tetrachloroethene	0.5	0.4645225	1	0.4560609	2	0.4651735	5	0.4673637	10	0.4634311	50	0.4873334
Toluene	0.5	1.284083	1	1.298892	2	1.273544	5	1.285833	10	1.28507	50	1.33459
1,2,3-Trichlorobenzene	0.5	0.5781544	1	0.558453	2	0.5361409	5	0.5203265	10	0.5193367	50	0.5660439
1,2,4-Trichlorobenzene	0.5	0.7031412	1	0.6649282	2	0.6549946	5	0.5960133	10	0.6187458	50	0.6666121
1,1,2-Trichloroethane	0.5	0.4475516	1	0.4532805	2	0.4573483	5	0.4537151	10	0.4428391	50	0.4631068
1,1,1-Trichloroethane	0.5	0.384882	1	0.4004025	2	0.4017626	5	0.4094113	10	0.4212622	50	0.4340432
Tetrahydrofuran	0.5	~~0.1687945~~	1	0.140742	2	0.1313183	5	0.107031	10	0.1043258	50	0.1114998
Trichloroethene	0.5	0.2667189	1	0.2644078	2	0.261275	5	0.2693326	10	0.2723188	50	0.2775691
Trichlorofluoromethane	0.5	0.3724328	1	0.3780669	2	0.3792874	5	0.3818739	10	0.4127502	50	0.4187662
1,2,3-Trichloropropane	0.5	0.1866801	1	0.2084578	2	0.1952223	5	0.2076396	10	0.1951678	50	0.2095557
1,3,5-Trimethylbenzene	0.5	2.181309	1	2.119397	2	2.223617	5	2.188818	10	2.208112	50	2.363758
1,2,4-Trimethylbenzene	0.5	2.319662	1	2.286779	2	2.312335	5	2.245849	10	2.252409	50	2.446174
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2027342	1	0.2091492	2	0.1975031	5	0.2032302	10	0.2082168	50	0.2139902
Vinyl chloride	0.5	0.2641456	1	0.2443262	2	0.2484517	5	0.2375925	10	0.2607173	50	0.2597799
m,p-Xylene	1	1.938364	2	1.908754	4	1.915563	10	1.946601	20	1.920622	100	2.080095
o-Xylene	0.5	2.079012	1	2.030726	2	2.050798	5	2.011347	10	1.991375	50	2.13974
Vinyl acetate	0.996	0.6982792	1.992	0.7581075	3.984	0.8172823	9.96	0.8452236	19.92	0.8650183	99.62	0.9280547
Xylenes (total)	1.5	1.985247	3	1.949411	6	1.960642	15	1.968183	30	1.944206	150	2.099977
Dibromofluoromethane	30	0.3148987	35	0.3105525	40	0.3114031	50	0.3100304	60	0.3059853	70	0.3007833
1,2-Dichloroethane-d4	30	6.594251E-02	35	6.521349E-02	40	6.623482E-02	50	6.464654E-02	60	6.459988E-02	70	6.163063E-02
Toluene-d8	30	2.002048	35	1.956807	40	1.961315	50	1.967983	60	1.928561	70	1.932351
tert-Amyl alcohol	2.5	2.793072E-02	5	2.693257E-02	10	0.0270565	25	2.558646E-02	50	2.503989E-02	250	2.764715E-02
tert-Amyl ethyl ether	0.5	0.8483539	1	0.8756671	2	0.8959255	5	0.9011762	10	0.9141912	50	0.9461658

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	0.1166755	300	0.1144909	400	0.1146763						
Acrolein	500.5	4.965607E-02	750.8	5.040645E-02	1001	5.134519E-02						
Acrylonitrile	499.7	0.1031605	749.6	0.1042654	999.4	0.1069093						
Benzene	100	1.08036	150	1.08988	200	1.106296						
Bromobenzene	100	0.7032417	150	0.6914736	200	0.7205662						
Bromochloromethane	100	0.1456423	150	0.1426195	200	0.1411766						
Tert-Amyl Methyl Ether	100	0.967278	150	0.9527552	200	0.968265						
Bromodichloromethane	100	0.4319297	150	0.4320795	200	0.4329709						
Bromoform	100	0.4135953	150	~~0.4237712~~	200	~~0.4401142~~						
Bromomethane	100	0.174302	150	0.1809963	200	0.1864307						
Bromofluorobenzene	30	0.9044906	30	0.9088533	30	0.919014						
n-Butylbenzene	100	2.079648	150	1.985056	200	2.032137						
2-Butanone	200	0.2232973	300	0.2236105	400	0.2245547						
sec-Butylbenzene	100	2.793076	150	2.709122	200	2.757884						
tert-Butylbenzene	100	2.15285	150	2.074602	200	2.135493						
Carbon disulfide	100	0.6842403	150	0.6977567	200	0.7110176						
Carbon tetrachloride	100	0.3765448	150	0.3743512	200	0.374315						
Chlorobenzene	100	1.544425	150	1.553333	200	1.607816						
Chloroethane	100	0.1683823	150	0.1647617	200	0.1655736						
Chloroform	100	0.5201437	150	0.5233394	200	0.5240376						
2-Chloroethyl vinyl ether	199.5	0.2170065	299.2	0.2147974	399	0.2153371						
Chloromethane	100	0.3119887	150	0.3103885	200	0.3221559						
1-Chlorohexane	100	0.7503567	150	0.7558635	200	0.7744302						
2-Chlorotoluene	100	2.191888	150	2.143614	200	2.183054						
4-Chlorotoluene	100	2.543333	150	2.484863	200	2.539128						
Cyclohexane	100	0.5188785	150	0.5228505	200	0.5206162						
Dibromochloromethane	100	0.6691122	150	0.6757425	200	0.7043424						
1,2-Dibromo-3-chloropropane	100	0.1585164	150	0.1538009	200	0.1581365						
1,2-Dibromoethane (EDB)	100	0.6187714	150	0.6167109	200	0.6288224						
Dibromomethane	100	0.2039875	150	0.201025	200	0.203185						
1,2-Dichlorobenzene	100	1.243658	150	1.188325	200	1.239112						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	1.282804	150	1.25716	200	1.29033						
1,4-Dichlorobenzene	100	1.289009	150	1.257396	200	1.295522						
Dichlorodifluoromethane	100	0.2718626	150	0.2754207	200	0.2759096						
1,1-Dichloroethane	100	0.5704305	150	0.5811296	200	0.5955877						
1,2-Dichloroethane	100	0.5402458	150	0.5295547	200	0.5230952						
1,1-Dichloroethene	100	0.1949912	150	0.1981413	200	0.2037595						
cis-1,2-Dichloroethene	100	0.2851411	150	0.2891809	200	0.2936416						
trans-1,2-Dichloroethene	100	0.2510613	150	0.2544983	200	0.2638378						
1,2-Dichloroethene (total)	200	0.2681012	300	0.2718396	400	0.2787397						
1,2-Dichloropropane	100	0.3243318	150	0.3239879	200	0.3236542						
1,3-Dichloropropane	100	0.9964303	150	0.9870319	200	1.017231						
2,2-Dichloropropane	100	0.4199076	150	0.4155449	200	0.413344						
1,1-Dichloropropene	100	0.409026	150	0.4056769	200	0.405036						
cis-1,3-Dichloropropene	100	0.491748	150	0.4884704	200	0.4918617						
trans-1,3-Dichloropropene	100	1.112863	150	1.102736	200	1.131884						
Diisopropyl Ether	100	1.404357	150	1.407936	200	1.431034						
Ethylbenzene	100	2.692985	150	2.735396	200	2.816156						
Ethyl tert-Butyl Ether	100	1.182907	150	1.173294	200	1.183799						
Ethyl Methacrylate	100	0.9589001	150	0.9705522	200	1.007765						
Hexachlorobutadiene	100	0.3188338	150	0.3152535	200	0.3271351						
2-Hexanone	200	0.6793857	300	0.6756797	400	0.6820493						
Iodomethane	100	0.3107297	150	0.313973	200	0.3182309						
Isopropylbenzene	100	2.23725	150	2.296142	200	2.331245						
p-Isopropyltoluene	100	2.292945	150	2.268964	200	2.306926						
Methylene chloride	100	0.2219804	150	0.2252686	200	0.2311264						
Methyl Acetate	100	0.2556234	150	0.258417	200	0.2575204						
Methylcyclohexane	100	0.3501692	150	0.3518043	200	0.3595688						
Naphthalene	100	1.686319	150	1.633381	200	1.724235						
Methyl Methacrylate	100	0.4222154	150	0.4087355	200	0.4074361						
4-Methyl-2-pentanone	200	0.4411978	300	0.429964	400	0.4288896						
Methyl t-Butyl Ether	100	0.8574469	150	0.8627605	200	0.8841276						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	3.462267	150	3.433123	200	3.483227						
Styrene	100	1.730752	150	1.747169	200	1.780947						
1,1,2,2-Tetrachloroethane	100	0.8977024	150	0.8702267	200	0.8893335						
1,1,1,2-Tetrachloroethane	100	0.5568762	150	0.5642541	200	0.5792642						
tert-Butyl alcohol	500	3.072704E-02	750	3.097659E-02	1000	3.113947E-02						
Tetrachloroethene	100	0.501375	150	0.5116784	200	0.5298307						
Toluene	100	1.340263	150	1.328356	200	1.36351						
1,2,3-Trichlorobenzene	100	0.597398	150	0.574394	200	0.6031484						
1,2,4-Trichlorobenzene	100	0.6918151	150	0.6707748	200	0.6960391						
1,1,2-Trichloroethane	100	0.4644598	150	0.4622911	200	0.4723133						
1,1,1-Trichloroethane	100	0.4349489	150	0.4336358	200	0.4291253						
Tetrahydrofuran	100	0.1160592	150	0.1135105	200	0.114872						
Trichloroethene	100	0.2835195	150	0.2829871	200	0.2859771						
Trichlorofluoromethane	100	0.4231154	150	0.4156056	200	0.4086547						
1,2,3-Trichloropropane	100	0.2144116	150	0.211841	200	0.213758						
1,3,5-Trimethylbenzene	100	2.393797	150	2.318602	200	2.389455						
1,2,4-Trimethylbenzene	100	2.427362	150	2.373065	200	2.417867						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2221093	150	0.2222891	200	0.2274684						
Vinyl chloride	100	0.265811	150	0.2645491	200	0.2673915						
m,p-Xylene	200	2.103691	300	2.111833	400	1.932533						
o-Xylene	100	2.163759	150	2.170816	200	2.212979						
Vinyl acetate	199.2	0.9331187	298.9	0.926519	398.5	0.9642979						
Xylenes (total)	300	2.123714	450	2.131493	600	2.026014						
Dibromofluoromethane	30	0.3180859	30	0.3156314	30	0.3166727						
1,2-Dichloroethane-d4	30	6.421959E-02	30	6.567008E-02	30	6.650076E-02						
Toluene-d8	30	1.973032	30	1.97269	30	2.05799						
tert-Amyl alcohol	500	2.874226E-02	750	2.916048E-02	1000	2.899876E-02						
tert-Amyl ethyl ether	100	0.9447038	150	0.9251066	200	0.9496329						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1205578	9.687295	3.774875	0.1224781			15	
Acrolein	4.848154E-02	6.980569	3.654778	0.1096685			15	
Acrylonitrile	9.870118E-02	5.344786	4.607222	0.1583335			15	
Benzene	1.052433	3.42443	7.641889	5.881455E-02			15	
Bromobenzene	0.6826426	3.610985	12.36811	1.539211E-02			15	
Bromochloromethane	0.140547	4.436461	6.738556	0.0432367			15	
Tert-Amyl Methyl Ether	0.9253437	3.687357	7.835556	4.824906E-02			15	
Bromodichloromethane	0.4135608	4.291761	8.622556	0.0459804			15	
Bromoform	0.336217	14.64914	11.77686	2.346656E-02			SPCC (0.1)	
Bromomethane	0.1573336	12.30692	2.825556	0.1340577			15	
Bromofluorobenzene	0.878475	3.50609	12.20544	3.205571E-02			15	
n-Butylbenzene	1.966027	4.818819	13.79511	2.510454E-02			15	
2-Butanone	0.2170988	3.310907	6.212667	8.854368E-02			15	
sec-Butylbenzene	2.601046	5.263794	13.25522	0.0168091			15	
tert-Butylbenzene	2.029179	4.594246	13.02311	3.061215E-02			15	
Carbon disulfide	0.6648011	5.956892	4.766778	8.314131E-02			15	
Carbon tetrachloride	0.3446436	8.790892	7.608889	4.578012E-02			15	
Chlorobenzene	1.486087	4.682253	11.05244	3.120293E-02			SPCC (0.3)	
Chloroethane	0.1625273	2.519463	2.959111	9.369155E-02			15	
Chloroform	0.5218466	3.013169	6.716889	6.679279E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.2018115	7.047183	8.981222	3.489983E-02			15	
Chloromethane	0.2978205	6.24167	2.244111	0.1419306			SPCC (0.1)	
1-Chlorohexane	0.790564	12.24414	11.01889	2.782658E-02			15	
2-Chlorotoluene	2.123871	2.530433	12.589	2.500628E-02			15	
4-Chlorotoluene	2.449645	3.220879	12.65133	0.0327337			15	
Cyclohexane	0.5064566	2.880723	7.539	0.0447776			15	
Dibromochloromethane	0.6059921	11.34527	10.29022	3.142678E-02			15	
1,2-Dibromo-3-chloropropane	0.1433564	8.087151	14.39778	2.960806E-02			15	
1,2-Dibromoethane (EDB)	0.5875367	5.031314	10.50033	2.392711E-02			15	
Dibromomethane	0.1971215	2.823059	8.559111	3.380959E-02			15	
1,2-Dichlorobenzene	1.165982	5.30465	13.755	2.189561E-02			15	
1,3-Dichlorobenzene	1.223082	3.895014	13.34467	1.660648E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.242304	3.039538	13.43778	3.775295E-02			15	
Dichlorodifluoromethane	0.2500923	11.25192	2.026333	0.1256169			15	
1,1-Dichloroethane	0.5652557	3.131601	5.755222	4.671026E-02			SPCC (0.1)	
1,2-Dichloroethane	0.5270445	1.994005	7.474556	5.584797E-02			15	
1,1-Dichloroethene	0.1954273	6.13466	4.236444	9.543841E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2829685	2.11867	6.464222	8.195503E-02			15	
trans-1,2-Dichloroethene	0.2506448	3.158602	5.382333	4.563419E-02			15	
1,2-Dichloroethene (total)	0.2668066	2.184513	0	0			15	
1,2-Dichloropropane	0.3168871	3.213076	8.448889	3.365111E-02			CCC (20)	
1,3-Dichloropropane	0.9575843	4.197904	10.03122	4.193362E-02			15	
2,2-Dichloropropane	0.4264272	3.853406	6.568889	6.836368E-02			15	
1,1-Dichloropropene	0.3980919	2.050297	7.488667	3.238935E-02			15	
cis-1,3-Dichloropropene	0.4720976	4.153466	9.193556	3.964417E-02			15	
trans-1,3-Dichloropropene	1.068367	4.252531	9.664889	3.211923E-02			15	
Diisopropyl Ether	1.376985	3.027222	6.130333	3.859198E-02			15	
Ethylbenzene	2.570008	5.96735	11.19822	2.864721E-02			CCC (20)	
Ethyl tert-Butyl Ether	1.148083	3.042998	6.593333	3.762048E-02			15	
Ethyl Methacrylate	0.9335463	4.599985	9.855	4.943664E-02			15	
Hexachlorobutadiene	0.3004422	6.526226	15.754	1.794061E-02			15	
2-Hexanone	0.6550182	5.36188	9.966889	2.629714E-02			15	
Iodomethane	0.2615534	21.70705	4.432875	6.469751E-02	0.9998293		0.995	
Isopropylbenzene	2.139438	6.266823	12.09589	0.0235622			15	
p-Isopropyltoluene	2.179917	4.194532	13.39289	0.0222104			15	
Methylene chloride	0.2438477	14.39367	4.722222	6.406583E-02			15	
Methyl Acetate	0.2617647	7.499968	4.592	9.512777E-02			15	
Methylcyclohexane	0.3380956	4.79907	8.773778	4.976014E-02			15	
Naphthalene	1.587017	6.01227	15.625	2.181913E-02			15	
Methyl Methacrylate	0.4076502	2.827101	8.581334	3.106002E-02			15	
4-Methyl-2-pentanone	0.4211664	3.007595	9.120111	3.050622E-02			15	
Methyl t-Butyl Ether	0.8435707	2.689572	5.389	8.041854E-02			15	
n-Propylbenzene	3.345849	3.677033	12.505	2.762268E-02			15	
Styrene	1.639751	6.170199	11.67022	2.919399E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1258002	Instrument:	MS-VOA6		
Matrix:	Water	Calibration Dates:	9/13/11 14:57	9/13/11 18:30	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.8659383	3.529277	12.02267	2.558354E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5256579	6.805975	11.09633	2.565078E-02			15	
tert-Butyl alcohol	0.0314608	4.850766	4.403889	0.1026763			15	
Tetrachloroethene	0.4829744	5.371503	10.39989	2.350423E-02			15	
Toluene	1.31046	2.4204	9.667	3.971049E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5614884	5.49401	15.91	2.023116E-02			15	
1,2,4-Trichlorobenzene	0.6625627	5.367651	15.47256	2.423506E-02			15	
1,1,2-Trichloroethane	0.457434	1.99802	9.819111	2.430674E-02			15	
1,1,1-Trichloroethane	0.4166082	4.36868	7.270111	0.0409493			15	
Tetrahydrofuran	0.1174198	10.55463	6.934	4.856623E-02			15	
Trichloroethene	0.2737895	3.314345	8.398667	4.706414E-02			15	
Trichlorofluoromethane	0.3989503	5.134027	3.453333	7.408229E-02			15	
1,2,3-Trichloropropane	0.2047482	4.819765	12.14944	2.556525E-02			15	
1,3,5-Trimethylbenzene	2.265207	4.514474	12.68311	1.603748E-02			15	
1,2,4-Trimethylbenzene	2.342389	3.256804	13.05489	3.544193E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2118545	4.855379	4.314	9.308264E-02			15	
Vinyl chloride	0.2569739	4.185694	2.382889	0.1508775			CCC (20)	
m,p-Xylene	1.984228	4.37884	11.31178	4.639836E-02			15	
o-Xylene	2.094506	3.792232	11.70022	2.042205E-02			15	
Vinyl acetate	0.8595446	10.39629	5.833111	4.834157E-02			15	
Xylenes (total)	2.020987	3.822958	0	0			15	
Dibromofluoromethane	0.3115604	1.783618	6.886111	4.295847E-02			15	
1,2-Dichloroethane-d4	6.496203E-02	2.269836	7.380333	3.127819E-02			15	
Toluene-d8	1.972531	1.97295	9.592889	2.660194E-02			15	
tert-Amyl alcohol	2.745498E-02	5.304562	7.098445	5.036191E-02			15	
tert-Amyl ethyl ether	0.9112137	3.795785	8.715778	3.982555E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	238.7	0.1205578	0.1438586		19.3	20
Benzene	A	100.0	103.5	1.052433	1.089445		3.5	20
Bromobenzene	A	100.0	102.3	0.6826426	0.6981386		2.3	20
Bromochloromethane	A	100.0	103.8	0.140547	0.1459249		3.8	20
Bromodichloromethane	A	100.0	96.07	0.4135608	0.3973052		-3.9	20
Bromoform	A	100.0	119.5	0.336217	0.4017654	0.1	19.5	20
Bromomethane	A	100.0	107.4	0.1573336	0.1689642		7.4	20
n-Butylbenzene	A	100.0	100.7	1.966027	1.980193		0.7	20
2-Butanone	A	200.0	216.8	0.2170988	0.2352962		8.4	20
sec-Butylbenzene	A	100.0	102.7	2.601046	2.670007		2.7	20
tert-Butylbenzene	A	100.0	102.6	2.029179	2.080978		2.6	20
Carbon disulfide	A	100.0	86.50	0.6648011	0.5750799		-13.5	20
Carbon tetrachloride	A	100.0	103.0	0.3446436	0.3551161		3.0	20
Chlorobenzene	A	100.0	104.1	1.486087	1.547167	0.3	4.1	20
Chloroethane	A	100.0	100.6	0.1625273	0.163566		0.6	20
Chloroform	A	100.0	96.42	0.5218466	0.5031581		-3.6	20
Chloromethane	A	100.0	91.11	0.2978205	0.271356	0.1	-8.9	20
2-Chlorotoluene	A	100.0	100.4	2.123871	2.132878		0.4	20
4-Chlorotoluene	A	100.0	101.4	2.449645	2.483143		1.4	20
Dibromochloromethane	A	100.0	105.9	0.6059921	0.641765		5.9	20
1,2-Dibromo-3-chloropropane	A	100.0	101.1	0.1433564	0.144953		1.1	20
1,2-Dibromoethane (EDB)	A	100.0	102.5	0.5875367	0.6020909		2.5	20
Dibromomethane	A	100.0	98.23	0.1971215	0.1936365		-1.8	20
1,2-Dichlorobenzene	A	100.0	102.4	1.165982	1.194183		2.4	20
1,3-Dichlorobenzene	A	100.0	102.5	1.223082	1.254		2.5	20
1,4-Dichlorobenzene	A	100.0	102.7	1.242304	1.276374		2.7	20
Dichlorodifluoromethane	A	100.0	84.81	0.2500923	0.2121029		-15.2	20
1,1-Dichloroethane	A	100.0	102.6	0.5652557	0.5799733	0.1	2.6	20
1,2-Dichloroethane	A	100.0	95.45	0.5270445	0.5030399		-4.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	93.81	0.1954273	0.1833252		-6.2	20
cis-1,2-Dichloroethene	A	100.0	102.4	0.2829685	0.2898771		2.4	20
trans-1,2-Dichloroethene	A	100.0	100.6	0.2506448	0.2522233		0.6	20
1,2-Dichloropropane	A	100.0	101.4	0.3168871	0.3214647		1.4	20
1,3-Dichloropropane	A	100.0	104.0	0.9575843	0.9958196		4.0	20
2,2-Dichloropropane	A	100.0	91.16	0.4264272	0.3887221		-8.8	20
1,1-Dichloropropene	A	100.0	99.48	0.3980919	0.3960073		-0.5	20
cis-1,3-Dichloropropene	A	100.0	103.2	0.4720976	0.4873506		3.2	20
trans-1,3-Dichloropropene	A	100.0	91.94	1.068367	0.9822541		-8.1	20
Ethylbenzene	A	100.0	104.6	2.570008	2.687852		4.6	20
Hexachlorobutadiene	A	100.0	96.62	0.3004422	0.2902731		-3.4	20
2-Hexanone	A	200.0	204.6	0.6550182	0.6699451		2.3	20
Isopropylbenzene	A	100.0	98.82	2.139438	2.114114		-1.2	20
p-Isopropyltoluene	A	100.0	96.99	2.179917	2.11429		-3.0	20
Methylene chloride	A	100.0	91.96	0.2438477	0.2242383		-8.0	20
Naphthalene	A	100.0	95.22	1.587017	1.511191		-4.8	20
4-Methyl-2-pentanone	A	200.0	194.9	0.4211664	0.4103278		-2.6	20
Methyl t-Butyl Ether	A	100.0	99.49	0.8435707	0.8392316		-0.5	20
n-Propylbenzene	A	100.0	101.3	3.345849	3.388558		1.3	20
Styrene	A	100.0	105.0	1.639751	1.7217		5.0	20
1,1,2,2-Tetrachloroethane	A	100.0	101.3	0.8659383	0.8774305	0.3	1.3	20
1,1,1,2-Tetrachloroethane	A	100.0	104.9	0.5256579	0.5515382		4.9	20
Tetrachloroethene	A	100.0	104.0	0.4829744	0.5024189		4.0	20
Toluene	A	100.0	103.7	1.31046	1.358779		3.7	20
1,2,3-Trichlorobenzene	A	100.0	96.37	0.5614884	0.5410968		-3.6	20
1,2,4-Trichlorobenzene	A	100.0	97.83	0.6625627	0.648166		-2.2	20
1,1,2-Trichloroethane	A	100.0	103.7	0.457434	0.4745303		3.7	20
1,1,1-Trichloroethane	A	100.0	101.8	0.4166082	0.4242727		1.8	20
Trichloroethene	A	100.0	100.7	0.2737895	0.2756099		0.7	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	97.14	0.3989503	0.3875519		-2.9	20
1,2,3-Trichloropropane	A	100.0	98.71	0.2047482	0.2021067		-1.3	20
1,3,5-Trimethylbenzene	A	100.0	105.7	2.265207	2.393336		5.7	20
1,2,4-Trimethylbenzene	A	100.0	101.2	2.342389	2.37119		1.2	20
Vinyl chloride	A	100.0	95.48	0.2569739	0.2453527		-4.5	20
Xylenes (total)	A	300.0	312.4	2.020987	2.103819		4.1	20
Bromofluorobenzene	A	30.00	30.31	0.878475	0.8874272		1.0	20
Dibromofluoromethane	A	30.00	29.89	0.3115604	0.310461		-0.4	20
1,2-Dichloroethane-d4	A	30.00	30.23	6.496203E-02	6.545398E-02		0.8	20
Toluene-d8	A	30.00	30.47	1.972531	2.003656		1.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1118CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32501	Injection Date:	11/18/11
Lab Sample ID:	1K32501-CCV1	Injection Time:	07:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	177.9	0.1205578	0.1072402		-11.0	20
Benzene	A	100.0	89.61	1.052433	0.9431035		-10.4	20
Bromobenzene	A	100.0	103.7	0.6826426	0.7078817		3.7	20
Bromochloromethane	A	100.0	94.14	0.140547	0.1323067		-5.9	20
Bromodichloromethane	A	100.0	84.37	0.4135608	0.3489086		-15.6	20
Bromoform	A	100.0	112.2	0.336217	0.3772987	0.1	12.2	20
Bromomethane	A	100.0	94.32	0.1573336	0.1484039		-5.7	20
n-Butylbenzene	A	100.0	101.9	1.966027	2.003486		1.9	20
2-Butanone	A	200.0	175.0	0.2170988	0.189919		-12.5	20
sec-Butylbenzene	A	100.0	105.3	2.601046	2.738827		5.3	20
tert-Butylbenzene	A	100.0	104.7	2.029179	2.123922		4.7	20
Carbon disulfide	A	100.0	90.37	0.6648011	0.6007725		-9.6	20
Carbon tetrachloride	A	100.0	87.95	0.3446436	0.3031202		-12.0	20
Chlorobenzene	A	100.0	101.4	1.486087	1.506822	0.3	1.4	20
Chloroethane	A	100.0	93.54	0.1625273	0.1520302		-6.5	20
Chloroform	A	100.0	84.74	0.5218466	0.4422144		-15.3	20
Chloromethane	A	100.0	102.8	0.2978205	0.3060128	0.1	2.8	20
2-Chlorotoluene	A	100.0	99.69	2.123871	2.11724		-0.3	20
4-Chlorotoluene	A	100.0	98.66	2.449645	2.41696		-1.3	20
Dibromochloromethane	A	100.0	102.6	0.6059921	0.6219206		2.6	20
1,2-Dibromo-3-chloropropane	A	100.0	99.43	0.1433564	0.1425337		-0.6	20
1,2-Dibromoethane (EDB)	A	100.0	99.55	0.5875367	0.584887		-0.5	20
Dibromomethane	A	100.0	86.66	0.1971215	0.1708171		-13.3	20
1,2-Dichlorobenzene	A	100.0	105.2	1.165982	1.226338		5.2	20
1,3-Dichlorobenzene	A	100.0	105.8	1.223082	1.293425		5.8	20
1,4-Dichlorobenzene	A	100.0	104.4	1.242304	1.297275		4.4	20
Dichlorodifluoromethane	A	100.0	105.8	0.2500923	0.2646877		5.8	20
1,1-Dichloroethane	A	100.0	89.91	0.5652557	0.5082004	0.1	-10.1	20
1,2-Dichloroethane	A	100.0	80.98	0.5270445	0.4268228		-19.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1118CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32501	Injection Date:	11/18/11
Lab Sample ID:	1K32501-CCV1	Injection Time:	07:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	89.75	0.1954273	0.1754001		-10.2	20
cis-1,2-Dichloroethene	A	100.0	88.75	0.2829685	0.2511262		-11.3	20
trans-1,2-Dichloroethene	A	100.0	89.86	0.2506448	0.2252379		-10.1	20
1,2-Dichloropropane	A	100.0	91.64	0.3168871	0.2903841		-8.4	20
1,3-Dichloropropane	A	100.0	98.26	0.9575843	0.9408889		-1.7	20
2,2-Dichloropropane	A	100.0	85.15	0.4264272	0.3631155		-14.8	20
1,1-Dichloropropene	A	100.0	87.52	0.3980919	0.3484134		-12.5	20
cis-1,3-Dichloropropene	A	100.0	88.57	0.4720976	0.418123		-11.4	20
trans-1,3-Dichloropropene	A	100.0	91.68	1.068367	0.9794544		-8.3	20
Ethylbenzene	A	100.0	97.55	2.570008	2.507108		-2.4	20
Hexachlorobutadiene	A	100.0	79.14	0.3004422	0.2377696		-20.9	20 *
2-Hexanone	A	200.0	186.2	0.6550182	0.6098314		-6.9	20
Isopropylbenzene	A	100.0	99.72	2.139438	2.133435		-0.3	20
p-Isopropyltoluene	A	100.0	102.8	2.179917	2.241265		2.8	20
Methylene chloride	A	100.0	81.21	0.2438477	0.1980237		-18.8	20
Naphthalene	A	100.0	85.62	1.587017	1.358788		-14.4	20
4-Methyl-2-pentanone	A	200.0	171.9	0.4211664	0.3620361		-14.0	20
Methyl t-Butyl Ether	A	100.0	80.20	0.8435707	0.6765148		-19.8	20
n-Propylbenzene	A	100.0	102.4	3.345849	3.426699		2.4	20
Styrene	A	100.0	100.3	1.639751	1.644418		0.3	20
1,1,2,2-Tetrachloroethane	A	100.0	103.4	0.8659383	0.8954287	0.3	3.4	20
1,1,1,2-Tetrachloroethane	A	100.0	97.96	0.5256579	0.5149627		-2.0	20
Tetrachloroethene	A	100.0	104.4	0.4829744	0.5040087		4.4	20
Toluene	A	100.0	96.67	1.31046	1.266884		-3.3	20
1,2,3-Trichlorobenzene	A	100.0	87.83	0.5614884	0.4931507		-12.2	20
1,2,4-Trichlorobenzene	A	100.0	93.94	0.6625627	0.622433		-6.1	20
1,1,2-Trichloroethane	A	100.0	98.27	0.457434	0.4495149		-1.7	20
1,1,1-Trichloroethane	A	100.0	84.96	0.4166082	0.3539513		-15.0	20
Trichloroethene	A	100.0	90.87	0.2737895	0.2487871		-9.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1118CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32501	Injection Date:	11/18/11
Lab Sample ID:	1K32501-CCV1	Injection Time:	07:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	81.75	0.3989503	0.3261507		-18.2	20
1,2,3-Trichloropropane	A	100.0	94.06	0.2047482	0.1925936		-5.9	20
1,3,5-Trimethylbenzene	A	100.0	101.1	2.265207	2.289471		1.1	20
1,2,4-Trimethylbenzene	A	100.0	99.46	2.342389	2.329643		-0.5	20
Vinyl chloride	A	100.0	87.79	0.2569739	0.2256017		-12.2	20
Xylenes (total)	A	300.0	283.6	2.020987	1.910475		-5.5	20
Bromofluorobenzene	A	30.00	30.51	0.878475	0.8934338		1.7	20
Dibromofluoromethane	A	30.00	27.37	0.3115604	0.2842826		-8.8	20
1,2-Dichloroethane-d4	A	30.00	28.82	6.496203E-02	6.240853E-02		-3.9	20
Toluene-d8	A	30.00	34.45	1.972531	2.265078		14.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1121CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32502	Injection Date:	11/21/11
Lab Sample ID:	1K32502-CCV1	Injection Time:	06:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	238.8	0.1205578	0.1439576		19.4	20
Benzene	A	100.0	95.55	1.052433	1.005561		-4.5	20
Bromobenzene	A	100.0	107.8	0.6826426	0.7360363		7.8	20
Bromochloromethane	A	100.0	100.0	0.140547	0.1405792		0.02	20
Bromodichloromethane	A	100.0	88.81	0.4135608	0.3672909		-11.2	20
Bromoform	A	100.0	120.3	0.336217	0.4045504	0.1	20.3	20 *
Bromomethane	A	100.0	105.8	0.1573336	0.166533		5.8	20
n-Butylbenzene	A	100.0	100.6	1.966027	1.978809		0.7	20
2-Butanone	A	200.0	206.7	0.2170988	0.2244116		3.4	20
sec-Butylbenzene	A	100.0	106.2	2.601046	2.761464		6.2	20
tert-Butylbenzene	A	100.0	105.6	2.029179	2.142185		5.6	20
Carbon disulfide	A	100.0	94.19	0.6648011	0.6261944		-5.8	20
Carbon tetrachloride	A	100.0	94.35	0.3446436	0.3251831		-5.6	20
Chlorobenzene	A	100.0	105.2	1.486087	1.562979	0.3	5.2	20
Chloroethane	A	100.0	92.73	0.1625273	0.1507186		-7.3	20
Chloroform	A	100.0	88.36	0.5218466	0.4610797		-11.6	20
Chloromethane	A	100.0	99.63	0.2978205	0.2967215	0.1	-0.4	20
2-Chlorotoluene	A	100.0	98.23	2.123871	2.086367		-1.8	20
4-Chlorotoluene	A	100.0	99.28	2.449645	2.432097		-0.7	20
Dibromochloromethane	A	100.0	108.5	0.6059921	0.6575369		8.5	20
1,2-Dibromo-3-chloropropane	A	100.0	102.8	0.1433564	0.1474142		2.8	20
1,2-Dibromoethane (EDB)	A	100.0	103.1	0.5875367	0.6059947		3.1	20
Dibromomethane	A	100.0	90.53	0.1971215	0.178452		-9.5	20
1,2-Dichlorobenzene	A	100.0	106.4	1.165982	1.241196		6.5	20
1,3-Dichlorobenzene	A	100.0	107.9	1.223082	1.320286		7.9	20
1,4-Dichlorobenzene	A	100.0	106.3	1.242304	1.320333		6.3	20
Dichlorodifluoromethane	A	100.0	108.7	0.2500923	0.2719684		8.7	20
1,1-Dichloroethane	A	100.0	92.28	0.5652557	0.5215901	0.1	-7.7	20
1,2-Dichloroethane	A	100.0	83.80	0.5270445	0.4416389		-16.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1121CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32502	Injection Date:	11/21/11
Lab Sample ID:	1K32502-CCV1	Injection Time:	06:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	93.60	0.1954273	0.1829274		-6.4	20
cis-1,2-Dichloroethene	A	100.0	92.48	0.2829685	0.2616959		-7.5	20
trans-1,2-Dichloroethene	A	100.0	92.95	0.2506448	0.2329812		-7.0	20
1,2-Dichloropropane	A	100.0	94.26	0.3168871	0.2987028		-5.7	20
1,3-Dichloropropane	A	100.0	100.5	0.9575843	0.962192		0.5	20
2,2-Dichloropropane	A	100.0	89.66	0.4264272	0.3823526		-10.3	20
1,1-Dichloropropene	A	100.0	92.98	0.3980919	0.3701405		-7.0	20
cis-1,3-Dichloropropene	A	100.0	92.83	0.4720976	0.4382672		-7.2	20
trans-1,3-Dichloropropene	A	100.0	94.60	1.068367	1.010656		-5.4	20
Ethylbenzene	A	100.0	102.8	2.570008	2.640942		2.8	20
Hexachlorobutadiene	A	100.0	84.51	0.3004422	0.2539116		-15.5	20
2-Hexanone	A	200.0	211.5	0.6550182	0.6925679		5.7	20
Isopropylbenzene	A	100.0	104.3	2.139438	2.232445		4.3	20
p-Isopropyltoluene	A	100.0	104.3	2.179917	2.274329		4.3	20
Methylene chloride	A	100.0	84.16	0.2438477	0.205223		-15.8	20
Naphthalene	A	100.0	69.59	1.587017	1.104473		-30.4	20 *
4-Methyl-2-pentanone	A	200.0	174.0	0.4211664	0.3663837		-13.0	20
Methyl t-Butyl Ether	A	100.0	84.59	0.8435707	0.71356		-15.4	20
n-Propylbenzene	A	100.0	103.2	3.345849	3.452414		3.2	20
Styrene	A	100.0	104.2	1.639751	1.708619		4.2	20
1,1,2,2-Tetrachloroethane	A	100.0	102.2	0.8659383	0.8854367	0.3	2.3	20
1,1,1,2-Tetrachloroethane	A	100.0	104.1	0.5256579	0.5474133		4.1	20
Tetrachloroethene	A	100.0	112.3	0.4829744	0.5423729		12.3	20
Toluene	A	100.0	101.1	1.31046	1.325412		1.1	20
1,2,3-Trichlorobenzene	A	100.0	85.64	0.5614884	0.4808735		-14.4	20
1,2,4-Trichlorobenzene	A	100.0	89.84	0.6625627	0.5952551		-10.2	20
1,1,2-Trichloroethane	A	100.0	100.3	0.457434	0.4587063		0.3	20
1,1,1-Trichloroethane	A	100.0	90.05	0.4166082	0.3751652		-9.9	20
Trichloroethene	A	100.0	94.12	0.2737895	0.2576777		-5.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1121CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32502	Injection Date:	11/21/11
Lab Sample ID:	1K32502-CCV1	Injection Time:	06:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	85.09	0.3989503	0.3394696		-14.9	20
1,2,3-Trichloropropane	A	100.0	97.24	0.2047482	0.1991094		-2.8	20
1,3,5-Trimethylbenzene	A	100.0	101.6	2.265207	2.30033		1.6	20
1,2,4-Trimethylbenzene	A	100.0	98.60	2.342389	2.309638		-1.4	20
Vinyl chloride	A	100.0	88.55	0.2569739	0.2275565		-11.4	20
Xylenes (total)	A	300.0	295.6	2.020987	1.990422		-1.5	20
Bromofluorobenzene	A	30.00	30.60	0.878475	0.8960377		2.0	20
Dibromofluoromethane	A	30.00	28.03	0.3115604	0.2910943		-6.6	20
1,2-Dichloroethane-d4	A	30.00	29.16	6.496203E-02	6.314768E-02		-2.8	20
Toluene-d8	A	30.00	34.54	1.972531	2.271119		15.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1122CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32702	Injection Date:	11/22/11
Lab Sample ID:	1K32702-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	196.6	0.1205578	0.1185108		-1.7	20	
Benzene	A	100.0	92.22	1.052433	0.9706001		-7.8	20	
Bromobenzene	A	100.0	106.9	0.6826426	0.7299005		6.9	20	
Bromochloromethane	A	100.0	95.25	0.140547	0.1338731		-4.7	20	
Bromodichloromethane	A	100.0	84.68	0.4135608	0.3502034		-15.3	20	
Bromoform	A	100.0	119.1	0.336217	0.4003753	0.1	19.1	20	
Bromomethane	A	100.0	99.95	0.1573336	0.157252		-0.05	20	
n-Butylbenzene	A	100.0	103.1	1.966027	2.026367		3.1	20	
2-Butanone	A	200.0	189.3	0.2170988	0.2055305		-5.3	20	
sec-Butylbenzene	A	100.0	105.7	2.601046	2.749729		5.7	20	
tert-Butylbenzene	A	100.0	105.5	2.029179	2.140521		5.5	20	
Carbon disulfide	A	100.0	73.67	0.6648011	0.4897453		-26.3	20	*
Carbon tetrachloride	A	100.0	88.87	0.3446436	0.3062839		-11.1	20	
Chlorobenzene	A	100.0	107.2	1.486087	1.592834	0.3	7.2	20	
Chloroethane	A	100.0	91.29	0.1625273	0.1483721		-8.7	20	
Chloroform	A	100.0	84.40	0.5218466	0.4404213		-15.6	20	
Chloromethane	A	100.0	97.13	0.2978205	0.2892846	0.1	-2.9	20	
2-Chlorotoluene	A	100.0	100.3	2.123871	2.129651		0.3	20	
4-Chlorotoluene	A	100.0	98.64	2.449645	2.41646		-1.4	20	
Dibromochloromethane	A	100.0	107.6	0.6059921	0.6517616		7.6	20	
1,2-Dibromo-3-chloropropane	A	100.0	100.8	0.1433564	0.144482		0.8	20	
1,2-Dibromoethane (EDB)	A	100.0	105.6	0.5875367	0.6207665		5.7	20	
Dibromomethane	A	100.0	87.26	0.1971215	0.1720163		-12.7	20	
1,2-Dichlorobenzene	A	100.0	106.8	1.165982	1.24587		6.9	20	
1,3-Dichlorobenzene	A	100.0	108.2	1.223082	1.323173		8.2	20	
1,4-Dichlorobenzene	A	100.0	106.0	1.242304	1.316931		6.0	20	
Dichlorodifluoromethane	A	100.0	103.4	0.2500923	0.2584863		3.4	20	
1,1-Dichloroethane	A	100.0	89.41	0.5652557	0.5053847	0.1	-10.6	20	
1,2-Dichloroethane	A	100.0	81.33	0.5270445	0.4286359		-18.7	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1122CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32702	Injection Date:	11/22/11
Lab Sample ID:	1K32702-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	89.76	0.1954273	0.1754162		-10.2	20
cis-1,2-Dichloroethene	A	100.0	89.98	0.2829685	0.2546184		-10.0	20
trans-1,2-Dichloroethene	A	100.0	91.33	0.2506448	0.2289217		-8.7	20
1,2-Dichloropropane	A	100.0	91.80	0.3168871	0.2908932		-8.2	20
1,3-Dichloropropane	A	100.0	101.6	0.9575843	0.9728243		1.6	20
2,2-Dichloropropane	A	100.0	87.09	0.4264272	0.3713594		-12.9	20
1,1-Dichloropropene	A	100.0	88.42	0.3980919	0.3520119		-11.6	20
cis-1,3-Dichloropropene	A	100.0	89.32	0.4720976	0.4217027		-10.7	20
trans-1,3-Dichloropropene	A	100.0	95.19	1.068367	1.01702		-4.8	20
Ethylbenzene	A	100.0	103.5	2.570008	2.660589		3.5	20
Hexachlorobutadiene	A	100.0	86.33	0.3004422	0.2593659		-13.7	20
2-Hexanone	A	200.0	201.5	0.6550182	0.6599707		0.8	20
Isopropylbenzene	A	100.0	105.0	2.139438	2.247343		5.0	20
p-Isopropyltoluene	A	100.0	105.6	2.179917	2.302692		5.6	20
Methylene chloride	A	100.0	81.55	0.2438477	0.198854		-18.5	20
Naphthalene	A	100.0	82.59	1.587017	1.310655		-17.4	20
4-Methyl-2-pentanone	A	200.0	170.7	0.4211664	0.359477		-14.6	20
Methyl t-Butyl Ether	A	100.0	80.31	0.8435707	0.6774413		-19.7	20
n-Propylbenzene	A	100.0	102.6	3.345849	3.434276		2.6	20
Styrene	A	100.0	105.9	1.639751	1.736253		5.9	20
1,1,2,2-Tetrachloroethane	A	100.0	102.1	0.8659383	0.8842974	0.3	2.1	20
1,1,1,2-Tetrachloroethane	A	100.0	103.5	0.5256579	0.5439428		3.5	20
Tetrachloroethene	A	100.0	113.6	0.4829744	0.5487451		13.6	20
Toluene	A	100.0	102.1	1.31046	1.337568		2.1	20
1,2,3-Trichlorobenzene	A	100.0	92.29	0.5614884	0.5181823		-7.7	20
1,2,4-Trichlorobenzene	A	100.0	94.96	0.6625627	0.6291572		-5.0	20
1,1,2-Trichloroethane	A	100.0	102.7	0.457434	0.4699781		2.7	20
1,1,1-Trichloroethane	A	100.0	85.38	0.4166082	0.3557025		-14.6	20
Trichloroethene	A	100.0	90.68	0.2737895	0.2482703		-9.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1122CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1K32702	Injection Date:	11/22/11
Lab Sample ID:	1K32702-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	80.80	0.3989503	0.3223368		-19.2	20
1,2,3-Trichloropropane	A	100.0	97.51	0.2047482	0.1996522		-2.5	20
1,3,5-Trimethylbenzene	A	100.0	99.76	2.265207	2.259769		-0.2	20
1,2,4-Trimethylbenzene	A	100.0	99.16	2.342389	2.322827		-0.8	20
Vinyl chloride	A	100.0	84.16	0.2569739	0.2162708		-15.8	20
Xylenes (total)	A	300.0	297.1	2.020987	2.001199		-1.0	20
Bromofluorobenzene	A	30.00	30.86	0.878475	0.9037654		2.9	20
Dibromofluoromethane	A	30.00	27.20	0.3115604	0.2824654		-9.3	20
1,2-Dichloroethane-d4	A	30.00	29.17	6.496203E-02	6.315802E-02		-2.8	20
Toluene-d8	A	30.00	35.15	1.972531	2.31143		17.2	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K18002-BLK1 File ID: 1118BLK1.D

Sampled: Prepared: Analyzed: 11/18/11 09:38

Solids: Preparation: 5030B Dilution:

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	7.49	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	Q, Y, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K18002-BLK1 File ID: 1118BLK1.D

Sampled: Prepared: Analyzed: 11/18/11 09:38

Solids: Preparation: 5030B Dilution:

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.92	99.7	75 - 120	
Dibromofluoromethane	30.00	27.52	91.7	85 - 115	
1,2-Dichloroethane-d4	30.00	28.74	95.8	70 - 120	
Toluene-d8	30.00	33.08	110	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_036

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

Matrix: | Laboratory ID: 1K18002-BS1 | File ID: 1118LCS1.D

Sampled: | Prepared: | Analyzed: 11/18/11 08:19

Solids: | Preparation: 5030B | Dilution:

Batch: 1K18002 | Sequence: 1K32501 | Calibration: 1258002 | Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	72.6	2.50	5.00	10.0	B
71-43-2	Benzene	44.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	45.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	38.5	0.250	0.500	1.00	
75-25-2	Bromoform	51.8	0.250	0.500	1.00	
74-83-9	Bromomethane	48.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.8	0.250	0.500	1.00	
78-93-3	2-Butanone	81.2	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	37.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	41.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.9	0.250	0.500	1.00	
75-00-3	Chloroethane	48.4	0.500	1.00	2.00	
67-66-3	Chloroform	40.5	0.250	0.500	1.00	
74-87-3	Chloromethane	51.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	47.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	46.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	47.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	40.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	43.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	38.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	41.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	43.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	36.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	44.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	41.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	42.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	43.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	40.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	47.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.2	0.250	0.500	1.00	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1K18002-BS1
File ID: 1118LCS1.D
Sampled:
Prepared:
Analyzed: 11/18/11 08:19
Solids:
Preparation: 5030B
Dilution:
Batch: 1K18002
Sequence: 1K32501
Calibration: 1258002
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	86.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	46.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	46.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	39.8	0.500	1.00	2.00	
91-20-3	Naphthalene	47.9	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	82.9	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	34.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	48.6	0.250	0.500	1.00	
100-42-5	Styrene	48.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	48.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	46.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.2	0.250	0.500	1.00	
108-88-3	Toluene	48.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	48.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	41.6	0.250	0.500	1.00	
79-01-6	Trichloroethene	43.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	40.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	45.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	49.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.3	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	139	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.46	102	75 - 120	
Dibromofluoromethane	30.00	27.42	91.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.85	96.2	70 - 120	
Toluene-d8	30.00	34.24	114	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K18002-BSD1 File ID: 1118LCD1.D

Sampled: Prepared: Analyzed: 11/18/11 18:06

Solids: Preparation: 5030B Dilution:

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	72.3	2.50	5.00	10.0	B
71-43-2	Benzene	46.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	46.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	39.4	0.250	0.500	1.00	
75-25-2	Bromoform	48.2	0.250	0.500	1.00	
74-83-9	Bromomethane	46.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.9	0.250	0.500	1.00	
78-93-3	2-Butanone	81.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	35.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	41.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.2	0.250	0.500	1.00	
75-00-3	Chloroethane	47.1	0.500	1.00	2.00	
67-66-3	Chloroform	41.5	0.250	0.500	1.00	
74-87-3	Chloromethane	51.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	48.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	45.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	44.7	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	46.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	41.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	44.9	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	44.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	40.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	39.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	44.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	43.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	45.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	47.1	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	36.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	42.1	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	43.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	38.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	46.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	38.1	0.250	0.500	1.00	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K18002-BSD1 File ID: 1118LCD1.D

Sampled: Prepared: Analyzed: 11/18/11 18:06

Solids: Preparation: 5030B Dilution:

Batch: 1K18002 Sequence: 1K32501 Calibration: 1258002 Instrument: MS-VOA6

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	45.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	46.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	39.9	0.500	1.00	2.00	
91-20-3	Naphthalene	40.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	85.8	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	40.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.1	0.250	0.500	1.00	
100-42-5	Styrene	48.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	45.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	47.9	0.250	0.500	1.00	
108-88-3	Toluene	47.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	43.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	44.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	47.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	41.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	43.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	38.4	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	44.6	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	50.4	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	138	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.67	98.9	75 - 120	
Dibromofluoromethane	30.00	27.71	92.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.72	95.7	70 - 120	
Toluene-d8	30.00	32.96	110	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21001-BLK1 File ID: 1121BLK1.D

Sampled: Prepared: Analyzed: 11/21/11 08:22

Solids: Preparation: 5030B Dilution:

Batch: 1K21001 Sequence: 1K32502 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	7.23	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21001-BLK1 File ID: 1121BLK1.D

Sampled: Prepared: Analyzed: 11/21/11 08:22

Solids: Preparation: 5030B Dilution:

Batch: 1K21001 Sequence: 1K32502 Calibration: 1258002 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	1.00	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	0.253	0.250	0.500	1.00	J
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	30.19	101	75 - 120	
Dibromofluoromethane	30.00	27.86	92.9	85 - 115	
1,2-Dichloroethane-d4	30.00	29.75	99.2	70 - 120	
Toluene-d8	30.00	33.45	111	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_036

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

Matrix: | Laboratory ID: 1K21001-BS1 | File ID: 1121LCS1.D

Sampled: | Prepared: | Analyzed: 11/21/11 07:04

Solids: | Preparation: 5030B | Dilution:

Batch: 1K21001 | Sequence: 1K32502 | Calibration: 1258002 | Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	71.5	2.50	5.00	10.0	B
71-43-2	Benzene	46.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	48.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	41.3	0.250	0.500	1.00	
75-25-2	Bromoform	55.5	0.250	0.500	1.00	X
74-83-9	Bromomethane	56.0	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	80.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	53.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	39.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	44.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.7	0.250	0.500	1.00	
75-00-3	Chloroethane	51.0	0.500	1.00	2.00	
67-66-3	Chloroform	43.3	0.250	0.500	1.00	
74-87-3	Chloromethane	50.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	48.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	50.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	43.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	53.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.8	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	46.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	40.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	43.3	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	46.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	46.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	46.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	43.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	44.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	46.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	42.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.5	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	51.8	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_036

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

Matrix: | Laboratory ID: 1K21001-BS1 | File ID: 1121LCS1.D

Sampled: | Prepared: | Analyzed: 11/21/11 07:04

Solids: | Preparation: 5030B | Dilution:

Batch: 1K21001 | Sequence: 1K32502 | Calibration: 1258002 | Instrument: MS-VOA6

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	48.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	42.5	0.500	1.00	2.00	
91-20-3	Naphthalene	45.1	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	82.3	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	42.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.0	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	48.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	50.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.5	0.250	0.500	1.00	
108-88-3	Toluene	50.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	54.6	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.3	0.250	0.500	1.00	B
79-00-5	1,1,2-Trichloroethane	50.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	43.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	45.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	42.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	44.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.3	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	30.22	101	75 - 120	
Dibromofluoromethane	30.00	27.65	92.2	85 - 115	
1,2-Dichloroethane-d4	30.00	29.37	97.9	70 - 120	
Toluene-d8	30.00	33.68	112	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K22004-BLK1 File ID: 1122BLK1.D

Sampled: Prepared: Analyzed: 11/22/11 08:43

Solids: Preparation: 5030B Dilution:

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	Y, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K22004-BLK1 File ID: 1122BLK1.D

Sampled: Prepared: Analyzed: 11/22/11 08:43

Solids: Preparation: 5030B Dilution:

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 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	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
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	29.98	99.9	75 - 120	
Dibromofluoromethane	30.00	27.05	90.2	85 - 115	
1,2-Dichloroethane-d4	30.00	29.89	99.6	70 - 120	
Toluene-d8	30.00	33.19	111	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K22004-BS1 File ID: 1122LCS1.D

Sampled: Prepared: Analyzed: 11/22/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	69.5	2.50	5.00	10.0	
71-43-2	Benzene	45.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	46.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	38.7	0.250	0.500	1.00	
75-25-2	Bromoform	53.1	0.250	0.500	1.00	
74-83-9	Bromomethane	52.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.0	0.250	0.500	1.00	
78-93-3	2-Butanone	79.8	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	38.3	0.250	0.500	1.00	Y
56-23-5	Carbon tetrachloride	42.2	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.9	0.250	0.500	1.00	
75-00-3	Chloroethane	49.9	0.500	1.00	2.00	
67-66-3	Chloroform	41.1	0.250	0.500	1.00	
74-87-3	Chloromethane	50.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	48.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	47.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.2	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	42.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	44.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	38.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	42.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	44.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	40.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	45.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.1	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	42.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	43.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	44.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	41.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.5	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K22004-BS1 File ID: 1122LCS1.D

Sampled: Prepared: Analyzed: 11/22/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1K22004 Sequence: 1K32702 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	87.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	40.6	0.500	1.00	2.00	
91-20-3	Naphthalene	45.5	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	82.8	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	38.9	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.7	0.250	0.500	1.00	
100-42-5	Styrene	50.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.0	0.250	0.500	1.00	
108-88-3	Toluene	49.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.6	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	41.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	44.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	39.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	45.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.8	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	145	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.64	98.8	75 - 120	
Dibromofluoromethane	30.00	27.03	90.1	85 - 115	
1,2-Dichloroethane-d4	30.00	28.23	94.1	70 - 120	
Toluene-d8	30.00	34.00	113	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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
GW0250	11/15/11 09:41	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 12:45	3.09	14.00	
GW0289	11/15/11 13:29	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 13:12	2.95	14.00	
GW0290	11/15/11 10:58	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 13:39	3.07	14.00	
GW0331	11/14/11 16:18	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 14:05	3.87	14.00	
GW0332	11/14/11 13:39	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 14:32	4.00	14.00	
GW0352	11/15/11 13:31	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 14:59	3.02	14.00	
GW8143-TB	11/14/11 08:00	11/16/11 08:20	11/18/11 00:00	N/A	14.00	11/18/11 10:58	4.08	14.00	
GW0288	11/15/11 15:44	11/17/11 08:30	11/18/11 00:00	N/A	14.00	11/18/11 16:19	2.98	14.00	
GW0344	11/16/11 10:21	11/17/11 08:30	11/18/11 00:00	N/A	14.00	11/18/11 16:46	2.23	14.00	
GW0345	11/16/11 13:08	11/17/11 08:30	11/18/11 00:00	N/A	14.00	11/18/11 17:13	2.13	14.00	
GW0351	11/16/11 10:23	11/17/11 08:30	11/18/11 00:00	N/A	14.00	11/18/11 17:40	2.26	14.00	
GW8035-AB	11/16/11 10:21	11/17/11 08:30	11/18/11 00:00	N/A	14.00	11/18/11 11:52	2.02	14.00	
GW8144-TB	11/16/11 08:00	11/17/11 08:30	11/18/11 00:00	N/A	14.00	11/18/11 12:18	2.14	14.00	
GW0274	11/17/11 11:11	11/18/11 08:20	11/22/11 00:00	N/A	14.00	11/22/11 11:24	4.97	14.00	
GW0275	11/17/11 11:11	11/18/11 08:20	11/22/11 00:00	N/A	14.00	11/22/11 11:51	4.99	14.00	
GW0346	11/17/11 11:43	11/18/11 08:20	11/22/11 00:00	N/A	14.00	11/22/11 12:18	4.98	14.00	
GW0353	11/16/11 14:53	11/18/11 08:20	11/22/11 00:00	N/A	14.00	11/22/11 12:44	5.87	14.00	
GW8145-TB	11/17/11 08:00	11/18/11 08:20	11/21/11 00:00	N/A	14.00	11/21/11 16:25	4.31	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	1114801.D
Sampled:	11/15/11 09:41	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 08:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	Y, U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	Y, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	Q, 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	Q, U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	Q, 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		1.00	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

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	1114801.D
Sampled:	11/15/11 09:41	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 08:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, 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	Q, 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	Q, 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	31.92	63.8	50 - 110	
2-Fluorophenol	100.0	20.16	20.2	20 - 110	
Nitrobenzene-d5	50.00	31.32	62.6	40 - 110	
Phenol-d6	100.0	15.53	15.5	0 - 110	
Terphenyl-d14	50.00	34.73	69.5	50 - 135	
2,4,6-Tribromophenol	100.0	51.96	52.0	40 - 125	

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	1114803.D
Sampled:	11/15/11 13:29	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 08:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	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	Y, U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	Y, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	Q, 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	Q, U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	Q, 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		0.962	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

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	1114803.D
Sampled:	11/15/11 13:29	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 08:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, 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	Q, 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	Q, 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	37.88	78.8	50 - 110	
2-Fluorophenol	96.15	14.64	15.2	20 - 110	*
Nitrobenzene-d5	48.08	35.98	74.8	40 - 110	
Phenol-d6	96.15	15.13	15.7	0 - 110	
Terphenyl-d14	48.08	46.49	96.7	50 - 135	
2,4,6-Tribromophenol	96.15	38.68	40.2	40 - 125	

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	1114805.D
Sampled:	11/15/11 10:58	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 09:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	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	Y, U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	Y, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	Q, 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	Q, U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	Q, 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		0.980	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

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	1114805.D
Sampled:	11/15/11 10:58	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 09:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Q, U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	Q, 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	Q, 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	Q, 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	33.30	67.9	50 - 110	
2-Fluorophenol	98.04	15.27	15.6	20 - 110	*
Nitrobenzene-d5	49.02	31.42	64.1	40 - 110	
Phenol-d6	98.04	13.53	13.8	0 - 110	
Terphenyl-d14	49.02	42.80	87.3	50 - 135	
2,4,6-Tribromophenol	98.04	48.14	49.1	40 - 125	

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	1114807.D
Sampled:	11/14/11 16:18	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 09:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	Y, U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	Q, 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	Q, U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	Q, 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		0.943	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

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	1114807.D
Sampled:	11/14/11 16:18	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 09:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	Q, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	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	Q, 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	Q, 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	Q, 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	33.80	71.7	50 - 110	
2-Fluorophenol	94.34	22.25	23.6	20 - 110	
Nitrobenzene-d5	47.17	34.09	72.3	40 - 110	
Phenol-d6	94.34	13.95	14.8	0 - 110	
Terphenyl-d14	47.17	42.32	89.7	50 - 135	
2,4,6-Tribromophenol	94.34	73.56	78.0	40 - 125	

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	1114809.D
Sampled:	11/14/11 13:39	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 10:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	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	Y, U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	Y, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	Q, 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	Q, U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	Q, 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		0.962	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

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	1114809.D
Sampled:	11/14/11 13:39	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 10:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33702 Calibration: 1339003 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	Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, 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	Q, 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	Q, 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	31.76	66.1	50 - 110	
2-Fluorophenol	96.15	22.86	23.8	20 - 110	
Nitrobenzene-d5	48.08	30.83	64.1	40 - 110	
Phenol-d6	96.15	14.12	14.7	0 - 110	
Terphenyl-d14	48.08	42.24	87.9	50 - 135	
2,4,6-Tribromophenol	96.15	69.25	72.0	40 - 125	

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	1114811.D
Sampled:	11/15/11 13:31	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 12:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	Y, 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	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	Q, 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	Q, U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	Q, 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		0.943	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

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	1114811.D
Sampled:	11/15/11 13:31	Prepared:	11/17/11 10:00	Analyzed:	12/03/11 12:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	Q, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene	1.19	1.18	2.36	4.72	J
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol	7.43	1.18	2.36	4.72	Q
108-39-4/106	3-Methylphenol/4-Methylphenol	2.57	1.18	2.36	4.72	J
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	Q, 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	Q, 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	31.96	67.8	50 - 110	
2-Fluorophenol	94.34	18.76	19.9	20 - 110	*Y
Nitrobenzene-d5	47.17	33.01	70.0	40 - 110	
Phenol-d6	94.34	14.72	15.6	0 - 110	Y
Terphenyl-d14	47.17	38.85	82.4	50 - 135	
2,4,6-Tribromophenol	94.34	69.81	74.0	40 - 125	

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	1116201.D
Sampled:	11/15/11 15:44	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 13:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	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	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	Y, 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	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	Y, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	Q, 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	Q, U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	Q, 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		0.962	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

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	1116201.D
Sampled:	11/15/11 15:44	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 13:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, 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	Q, 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	Q, 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	36.14	75.2	50 - 110	
2-Fluorophenol	96.15	24.78	25.8	20 - 110	Y
Nitrobenzene-d5	48.08	34.56	71.9	40 - 110	
Phenol-d6	96.15	17.11	17.8	0 - 110	Y
Terphenyl-d14	48.08	44.40	92.3	50 - 135	
2,4,6-Tribromophenol	96.15	74.30	77.3	40 - 125	

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	1116203.D
Sampled:	11/16/11 10:21	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 13:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam	7.17	1.25	2.50	5.00	Q
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	Y, 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	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	Y, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	Q, 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	Q, U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	Q, 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		1.00	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

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	1116203.D
Sampled:	11/16/11 10:21	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 13:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, 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	Q, 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	Q, 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	38.05	76.1	50 - 110	
2-Fluorophenol	100.0	18.95	19.0	20 - 110	*Y
Nitrobenzene-d5	50.00	44.55	89.1	40 - 110	
Phenol-d6	100.0	15.11	15.1	0 - 110	Y
Terphenyl-d14	50.00	45.17	90.3	50 - 135	
2,4,6-Tribromophenol	100.0	69.00	69.0	40 - 125	

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	1116205.D
Sampled:	11/16/11 13:08	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 14:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	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	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	Y, 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	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	Y, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	Q, 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	Q, U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	Q, 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		0.980	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

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	1116205.D
Sampled:	11/16/11 13:08	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 14:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Q, U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	Q, 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	Q, 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	Q, 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	39.02	79.6	50 - 110	
2-Fluorophenol	98.04	23.37	23.8	20 - 110	Y
Nitrobenzene-d5	49.02	44.17	90.1	40 - 110	
Phenol-d6	98.04	14.60	14.9	0 - 110	Y
Terphenyl-d14	49.02	47.27	96.4	50 - 135	
2,4,6-Tribromophenol	98.04	73.19	74.7	40 - 125	

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	1116207.D
Sampled:	11/16/11 10:23	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 14:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 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	Y, U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	Y, 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	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	Q, 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	Q, U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	Q, 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		0.943	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

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	1116207.D
Sampled:	11/16/11 10:23	Prepared:	11/17/11 14:00	Analyzed:	12/03/11 14:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17001 Sequence: 1L33907 Calibration: 1339003 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	Q, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	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	Q, 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	Q, 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	Q, 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	35.26	74.7	50 - 110	
2-Fluorophenol	94.34	19.30	20.5	20 - 110	Y
Nitrobenzene-d5	47.17	40.89	86.7	40 - 110	
Phenol-d6	94.34	13.52	14.3	0 - 110	Y
Terphenyl-d14	47.17	46.33	98.2	50 - 135	
2,4,6-Tribromophenol	94.34	66.07	70.0	40 - 125	

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	1117701.D
Sampled:	11/17/11 11:11	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 19:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	X, U
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	23.6	47.2	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	Y, U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	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	X, Q, U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	X, U
51-28-5	2,4-Dinitrophenol		0.943	23.6	47.2	X, 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

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	1117701.D
Sampled:	11/17/11 11:11	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 19:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 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	X, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	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	X, U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	X, U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	Q, X, U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	X, 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	X, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	34.89	74.0	50 - 110	
2-Fluorophenol	94.34	29.11	30.9	20 - 110	
Nitrobenzene-d5	47.17	39.88	84.5	40 - 110	
Phenol-d6	94.34	16.05	17.0	0 - 110	Y
Terphenyl-d14	47.17	33.07	70.1	50 - 135	
2,4,6-Tribromophenol	94.34	81.35	86.2	40 - 125	

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	1117703.D
Sampled:	11/17/11 11:11	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 20:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	X, U
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	23.6	47.2	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	Y, U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	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	X, Q, U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	X, U
51-28-5	2,4-Dinitrophenol		0.943	23.6	47.2	X, 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

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	1117703.D
Sampled:	11/17/11 11:11	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 20:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 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	X, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	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	X, U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	X, U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	Q, X, U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	X, 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	X, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	35.61	75.5	50 - 110	
2-Fluorophenol	94.34	29.30	31.1	20 - 110	
Nitrobenzene-d5	47.17	41.23	87.4	40 - 110	
Phenol-d6	94.34	16.95	18.0	0 - 110	Y
Terphenyl-d14	47.17	34.70	73.6	50 - 135	
2,4,6-Tribromophenol	94.34	80.65	85.5	40 - 125	

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	1117705.D
Sampled:	11/17/11 11:43	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 20:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	X, U
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	24.0	48.1	U
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	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	Y, 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	Y, 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	X, Q, 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
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	X, U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	1117705.D
Sampled:	11/17/11 11:43	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 20:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 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	X, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	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	X, U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	X, U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	X, Q, U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	X, 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	X, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	35.85	74.6	50 - 110	
2-Fluorophenol	96.15	29.47	30.7	20 - 110	
Nitrobenzene-d5	48.08	41.95	87.3	40 - 110	
Phenol-d6	96.15	17.27	18.0	0 - 110	Y
Terphenyl-d14	48.08	39.51	82.2	50 - 135	
2,4,6-Tribromophenol	96.15	82.12	85.4	40 - 125	

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	1117707.D
Sampled:	11/16/11 14:53	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 21:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	X, U
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	24.0	48.1	U
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	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	Y, 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	Y, 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	X, Q, 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
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	X, U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	1117707.D
Sampled:	11/16/11 14:53	Prepared:	11/21/11 12:00	Analyzed:	11/23/11 21:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 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	X, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	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	X, U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	X, U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	Q, X, U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	X, 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	X, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	32.06	66.7	50 - 110	
2-Fluorophenol	96.15	33.37	34.7	20 - 110	
Nitrobenzene-d5	48.08	36.71	76.4	40 - 110	
Phenol-d6	96.15	18.92	19.7	0 - 110	Y
Terphenyl-d14	48.08	33.60	69.9	50 - 135	
2,4,6-Tribromophenol	96.15	78.45	81.6	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33208	Instrument:	MS-BNA1
		Calibration:	1314005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K33208-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/23/11 13:52		
2-Fluorobiphenyl	50.00	96.3	80 - 120	8.398	8.398	0.0000	+/-0.500	
2-Fluorophenol	100.0	91.3	80 - 120	3.772	3.772	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	110	80 - 120	6.085	6.085	0.0000	+/-0.500	
Phenol-d6	100.0	74.4	80 - 120	4.957	4.957	0.0000	+/-0.500	*
Terphenyl-d14	50.00	102	80 - 120	13.007	13.007	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	108	80 - 120	10.185	10.185	0.0000	+/-0.500	
Blank (1K21011-BLK1) ug/L				Lab File ID: K21011B1.D		Analyzed: 11/23/11 16:55		
2-Fluorobiphenyl	50.00	71.7	50 - 110	8.387	8.398	-0.0110	+/-0.500	
2-Fluorophenol	100.0	31.1	20 - 110	3.766	3.772	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	89.4	40 - 110	6.081	6.085	-0.0040	+/-0.500	
Phenol-d6	100.0	16.8	0 - 110	4.933	4.957	-0.0240	+/-0.500	
Terphenyl-d14	50.00	95.3	50 - 135	13.003	13.007	-0.0040	+/-0.500	
2,4,6-Tribromophenol	100.0	93.9	40 - 125	10.177	10.185	-0.0080	+/-0.500	
LCS (1K21011-BS1) ug/L				Lab File ID: K21011L1.D		Analyzed: 11/23/11 17:26		
2-Fluorobiphenyl	50.00	82.7	50 - 110	8.398	8.398	0.0000	+/-0.500	
2-Fluorophenol	100.0	32.4	20 - 110	3.777	3.772	0.0050	+/-0.500	
Nitrobenzene-d5	50.00	89.8	40 - 110	6.085	6.085	0.0000	+/-0.500	
Phenol-d6	100.0	16.3	0 - 110	4.944	4.957	-0.0130	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	13.009	13.007	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	95.3	40 - 125	10.187	10.185	0.0020	+/-0.500	
LCS Dup (1K21011-BSD1) ug/L				Lab File ID: K21011L2.D		Analyzed: 11/23/11 17:56		
2-Fluorobiphenyl	50.00	79.8	50 - 110	8.399	8.398	0.0010	+/-0.500	
2-Fluorophenol	100.0	31.5	20 - 110	3.777	3.772	0.0050	+/-0.500	
Nitrobenzene-d5	50.00	90.7	40 - 110	6.084	6.085	-0.0010	+/-0.500	
Phenol-d6	100.0	15.9	0 - 110	4.945	4.957	-0.0120	+/-0.500	
Terphenyl-d14	50.00	106	50 - 135	13.007	13.007	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	95.4	40 - 125	10.188	10.185	0.0030	+/-0.500	
GW0274 (1111177-01) ug/L				Lab File ID: 1117701.D		Analyzed: 11/23/11 19:58		
2-Fluorobiphenyl	47.17	74.0	50 - 110	8.385	8.398	-0.0130	+/-0.500	
2-Fluorophenol	94.34	30.9	20 - 110	3.766	3.772	-0.0060	+/-0.500	
Nitrobenzene-d5	47.17	84.5	40 - 110	6.08	6.085	-0.0050	+/-0.500	
Phenol-d6	94.34	17.0	0 - 110	4.933	4.957	-0.0240	+/-0.500	
Terphenyl-d14	47.17	70.1	50 - 135	13.001	13.007	-0.0060	+/-0.500	
2,4,6-Tribromophenol	94.34	86.2	40 - 125	10.177	10.185	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33208	Instrument:	MS-BNA1
		Calibration:	1314005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0275 (1111177-03) ug/L				Lab File ID: 1117703.D		Analyzed: 11/23/11 20:28		
2-Fluorobiphenyl	47.17	75.5	50 - 110	8.384	8.398	-0.0140	+/-0.500	
2-Fluorophenol	94.34	31.1	20 - 110	3.766	3.772	-0.0060	+/-0.500	
Nitrobenzene-d5	47.17	87.4	40 - 110	6.08	6.085	-0.0050	+/-0.500	
Phenol-d6	94.34	18.0	0 - 110	4.932	4.957	-0.0250	+/-0.500	
Terphenyl-d14	47.17	73.6	50 - 135	13.001	13.007	-0.0060	+/-0.500	
2,4,6-Tribromophenol	94.34	85.5	40 - 125	10.174	10.185	-0.0110	+/-0.500	
GW0346 (1111177-05) ug/L				Lab File ID: 1117705.D		Analyzed: 11/23/11 20:58		
2-Fluorobiphenyl	48.08	74.6	50 - 110	8.384	8.398	-0.0140	+/-0.500	
2-Fluorophenol	96.15	30.7	20 - 110	3.765	3.772	-0.0070	+/-0.500	
Nitrobenzene-d5	48.08	87.3	40 - 110	6.079	6.085	-0.0060	+/-0.500	
Phenol-d6	96.15	18.0	0 - 110	4.932	4.957	-0.0250	+/-0.500	
Terphenyl-d14	48.08	82.2	50 - 135	12.999	13.007	-0.0080	+/-0.500	
2,4,6-Tribromophenol	96.15	85.4	40 - 125	10.174	10.185	-0.0110	+/-0.500	
GW0353 (1111177-07) ug/L				Lab File ID: 1117707.D		Analyzed: 11/23/11 21:29		
2-Fluorobiphenyl	48.08	66.7	50 - 110	8.384	8.398	-0.0140	+/-0.500	
2-Fluorophenol	96.15	34.7	20 - 110	3.765	3.772	-0.0070	+/-0.500	
Nitrobenzene-d5	48.08	76.4	40 - 110	6.079	6.085	-0.0060	+/-0.500	
Phenol-d6	96.15	19.7	0 - 110	4.932	4.957	-0.0250	+/-0.500	
Terphenyl-d14	48.08	69.9	50 - 135	13	13.007	-0.0070	+/-0.500	
2,4,6-Tribromophenol	96.15	81.6	40 - 125	10.175	10.185	-0.0100	+/-0.500	
Blank (1K17001-BLK1) ug/L				Lab File ID: K17001B1.D		Analyzed: 11/23/11 22:29		
2-Fluorobiphenyl	50.00	70.2	50 - 110	8.382	8.398	-0.0160	+/-0.500	
2-Fluorophenol	100.0	26.0	20 - 110	3.765	3.772	-0.0070	+/-0.500	
Nitrobenzene-d5	50.00	79.5	40 - 110	6.079	6.085	-0.0060	+/-0.500	
Phenol-d6	100.0	13.5	0 - 110	4.931	4.957	-0.0260	+/-0.500	
Terphenyl-d14	50.00	90.4	50 - 135	12.999	13.007	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	84.4	40 - 125	10.173	10.185	-0.0120	+/-0.500	
LCS (1K17001-BS1) ug/L				Lab File ID: K17001L1.D		Analyzed: 11/23/11 22:59		
2-Fluorobiphenyl	50.00	86.4	50 - 110	8.396	8.398	-0.0020	+/-0.500	
2-Fluorophenol	100.0	38.7	20 - 110	3.766	3.772	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	94.7	40 - 110	6.083	6.085	-0.0020	+/-0.500	
Phenol-d6	100.0	20.0	0 - 110	4.942	4.957	-0.0150	+/-0.500	
Terphenyl-d14	50.00	98.2	50 - 135	13.007	13.007	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	10.186	10.185	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33208	Instrument:	MS-BNA1
		Calibration:	1314005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1K17001-BSD1) ug/L				Lab File ID: K17001L2.D		Analyzed: 11/23/11 23:30		
2-Fluorobiphenyl	50.00	69.9	50 - 110	8.394	8.398	-0.0040	+/-0.500	
2-Fluorophenol	100.0	27.5	20 - 110	3.766	3.772	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	71.3	40 - 110	6.082	6.085	-0.0030	+/-0.500	
Phenol-d6	100.0	15.4	0 - 110	4.942	4.957	-0.0150	+/-0.500	
Terphenyl-d14	50.00	88.9	50 - 135	13.001	13.007	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	83.9	40 - 125	10.181	10.185	-0.0040	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33702	Instrument:	MS-BNA1
		Calibration:	1339003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L33702-CCV1) ug/mL				Lab File ID: SEQ-CCVE.D		Analyzed: 12/03/11 00:46		
2-Fluorobiphenyl	50.00	90.7	80 - 120	8.326	8.326	0.0000	+/-0.500	
2-Fluorophenol	100.0	84.0	80 - 120	3.698	3.698	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	84.9	80 - 120	6.014	6.014	0.0000	+/-0.500	
Phenol-d6	100.0	82.4	80 - 120	4.884	4.884	0.0000	+/-0.500	
Terphenyl-d14	50.00	91.7	80 - 120	12.922	12.922	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	90.8	80 - 120	10.117	10.117	0.0000	+/-0.500	
GW0250 (1111148-01) ug/L				Lab File ID: 1114801.D		Analyzed: 12/03/11 08:23		
2-Fluorobiphenyl	50.00	63.8	50 - 110	8.321	8.326	-0.0050	+/-0.500	
2-Fluorophenol	100.0	20.2	20 - 110	3.698	3.698	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	62.6	40 - 110	6.01	6.014	-0.0040	+/-0.500	
Phenol-d6	100.0	15.5	0 - 110	4.863	4.884	-0.0210	+/-0.500	
Terphenyl-d14	50.00	69.5	50 - 135	12.924	12.922	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	52.0	40 - 125	10.101	10.117	-0.0160	+/-0.500	
GW0289 (1111148-03) ug/L				Lab File ID: 1114803.D		Analyzed: 12/03/11 08:54		
2-Fluorobiphenyl	48.08	78.8	50 - 110	8.32	8.326	-0.0060	+/-0.500	
2-Fluorophenol	96.15	15.2	20 - 110	3.697	3.698	-0.0010	+/-0.500	*
Nitrobenzene-d5	48.08	74.8	40 - 110	6.008	6.014	-0.0060	+/-0.500	
Phenol-d6	96.15	15.7	0 - 110	4.862	4.884	-0.0220	+/-0.500	
Terphenyl-d14	48.08	96.7	50 - 135	12.923	12.922	0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	40.2	40 - 125	10.099	10.117	-0.0180	+/-0.500	
GW0290 (1111148-05) ug/L				Lab File ID: 1114805.D		Analyzed: 12/03/11 09:25		
2-Fluorobiphenyl	49.02	67.9	50 - 110	8.32	8.326	-0.0060	+/-0.500	
2-Fluorophenol	98.04	15.6	20 - 110	3.697	3.698	-0.0010	+/-0.500	*
Nitrobenzene-d5	49.02	64.1	40 - 110	6.008	6.014	-0.0060	+/-0.500	
Phenol-d6	98.04	13.8	0 - 110	4.862	4.884	-0.0220	+/-0.500	
Terphenyl-d14	49.02	87.3	50 - 135	12.922	12.922	0.0000	+/-0.500	
2,4,6-Tribromophenol	98.04	49.1	40 - 125	10.1	10.117	-0.0170	+/-0.500	
GW0331 (1111148-07) ug/L				Lab File ID: 1114807.D		Analyzed: 12/03/11 09:55		
2-Fluorobiphenyl	47.17	71.7	50 - 110	8.32	8.326	-0.0060	+/-0.500	
2-Fluorophenol	94.34	23.6	20 - 110	3.696	3.698	-0.0020	+/-0.500	
Nitrobenzene-d5	47.17	72.3	40 - 110	6.008	6.014	-0.0060	+/-0.500	
Phenol-d6	94.34	14.8	0 - 110	4.862	4.884	-0.0220	+/-0.500	
Terphenyl-d14	47.17	89.7	50 - 135	12.923	12.922	0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	78.0	40 - 125	10.108	10.117	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33702	Instrument:	MS-BNA1
		Calibration:	1339003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0332 (1111148-09) ug/L				Lab File ID: 1114809.D		Analyzed: 12/03/11 10:27		
2-Fluorobiphenyl	48.08	66.1	50 - 110	8.318	8.326	-0.0080	+/-0.500	
2-Fluorophenol	96.15	23.8	20 - 110	3.696	3.698	-0.0020	+/-0.500	
Nitrobenzene-d5	48.08	64.1	40 - 110	6.007	6.014	-0.0070	+/-0.500	
Phenol-d6	96.15	14.7	0 - 110	4.861	4.884	-0.0230	+/-0.500	
Terphenyl-d14	48.08	87.9	50 - 135	12.92	12.922	-0.0020	+/-0.500	
2,4,6-Tribromophenol	96.15	72.0	40 - 125	10.108	10.117	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33907	Instrument:	MS-BNA1
		Calibration:	1339003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L33907-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 12/03/11 12:03		
2-Fluorobiphenyl	50.00	87.3	80 - 120	8.33	8.33	0.0000	+/-0.500	
2-Fluorophenol	100.0	78.4	80 - 120	3.706	3.706	0.0000	+/-0.500	*
Nitrobenzene-d5	50.00	88.2	80 - 120	6.022	6.022	0.0000	+/-0.500	
Phenol-d6	100.0	75.6	80 - 120	4.892	4.892	0.0000	+/-0.500	*
Terphenyl-d14	50.00	101	80 - 120	12.927	12.927	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	91.9	80 - 120	10.114	10.114	0.0000	+/-0.500	
GW0352 (1111148-11) ug/L				Lab File ID: 1114811.D		Analyzed: 12/03/11 12:39		
2-Fluorobiphenyl	47.17	67.8	50 - 110	8.328	8.33	-0.0020	+/-0.500	
2-Fluorophenol	94.34	19.9	20 - 110	3.732	3.706	0.0260	+/-0.500	*
Nitrobenzene-d5	47.17	70.0	40 - 110	6.017	6.022	-0.0050	+/-0.500	
Phenol-d6	94.34	15.6	0 - 110	4.893	4.892	0.0010	+/-0.500	
Terphenyl-d14	47.17	82.4	50 - 135	12.923	12.927	-0.0040	+/-0.500	
2,4,6-Tribromophenol	94.34	74.0	40 - 125	10.112	10.114	-0.0020	+/-0.500	
GW0288 (1111162-01) ug/L				Lab File ID: 1116201.D		Analyzed: 12/03/11 13:10		
2-Fluorobiphenyl	48.08	75.2	50 - 110	8.326	8.33	-0.0040	+/-0.500	
2-Fluorophenol	96.15	25.8	20 - 110	3.697	3.706	-0.0090	+/-0.500	
Nitrobenzene-d5	48.08	71.9	40 - 110	6.009	6.022	-0.0130	+/-0.500	
Phenol-d6	96.15	17.8	0 - 110	4.863	4.892	-0.0290	+/-0.500	
Terphenyl-d14	48.08	92.3	50 - 135	12.922	12.927	-0.0050	+/-0.500	
2,4,6-Tribromophenol	96.15	77.3	40 - 125	10.112	10.114	-0.0020	+/-0.500	
GW0344 (1111162-03) ug/L				Lab File ID: 1116203.D		Analyzed: 12/03/11 13:41		
2-Fluorobiphenyl	50.00	76.1	50 - 110	8.329	8.33	-0.0010	+/-0.500	
2-Fluorophenol	100.0	19.0	20 - 110	3.725	3.706	0.0190	+/-0.500	*
Nitrobenzene-d5	50.00	89.1	40 - 110	6.017	6.022	-0.0050	+/-0.500	
Phenol-d6	100.0	15.1	0 - 110	4.895	4.892	0.0030	+/-0.500	
Terphenyl-d14	50.00	90.3	50 - 135	12.926	12.927	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	69.0	40 - 125	10.115	10.114	0.0010	+/-0.500	
GW0345 (1111162-05) ug/L				Lab File ID: 1116205.D		Analyzed: 12/03/11 14:12		
2-Fluorobiphenyl	49.02	79.6	50 - 110	8.33	8.33	0.0000	+/-0.500	
2-Fluorophenol	98.04	23.8	20 - 110	3.711	3.706	0.0050	+/-0.500	
Nitrobenzene-d5	49.02	90.1	40 - 110	6.012	6.022	-0.0100	+/-0.500	
Phenol-d6	98.04	14.9	0 - 110	4.881	4.892	-0.0110	+/-0.500	
Terphenyl-d14	49.02	96.4	50 - 135	12.926	12.927	-0.0010	+/-0.500	
2,4,6-Tribromophenol	98.04	74.7	40 - 125	10.109	10.114	-0.0050	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33907	Instrument:	MS-BNA1
		Calibration:	1339003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0351 (1111162-07) ug/L				Lab File ID: 1116207.D		Analyzed: 12/03/11 14:43		
2-Fluorobiphenyl	47.17	74.7	50 - 110	8.328	8.33	-0.0020	+/-0.500	
2-Fluorophenol	94.34	20.5	20 - 110	3.711	3.706	0.0050	+/-0.500	
Nitrobenzene-d5	47.17	86.7	40 - 110	6.011	6.022	-0.0110	+/-0.500	
Phenol-d6	94.34	14.3	0 - 110	4.88	4.892	-0.0120	+/-0.500	
Terphenyl-d14	47.17	98.2	50 - 135	12.921	12.927	-0.0060	+/-0.500	
2,4,6-Tribromophenol	94.34	70.0	40 - 125	10.112	10.114	-0.0020	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K17001	Laboratory ID:	1K17001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	44.73	89.5	20 - 110
Acenaphthene	50.00	43.71	87.4	45 - 110
Acenaphthylene	50.00	39.80	79.6	50 - 105
Acetophenone	50.00	47.22	94.4	50 - 110
Anthracene	50.00	39.18	78.4	55 - 110
Atrazine	50.00	52.82	106	70 - 115
Benzaldehyde	50.00	40.09	80.2	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	49.37	98.7	55 - 110
Benzo(a)pyrene	50.00	51.00	102	55 - 110
Benzo(b)fluoranthene	50.00	54.64	109	45 - 120
Benzo(g,h,i)perylene	50.00	40.44	80.9	40 - 125
Benzoic acid	100.0	18.87	18.9	0 - 125
Benzo(k)fluoranthene	50.00	49.47	98.9	45 - 125
1,1-Biphenyl	50.00	39.21	78.4	50 - 110
4-Bromophenyl-phenylether	50.00	53.58	107	50 - 115
Butylbenzylphthalate	50.00	53.74	107	45 - 115
Caprolactam	**50.00**	**9.459**	**18.9**	**20 - 110**
Carbazole	50.00	40.29	80.6	50 - 115
4-Chloro-3-methylphenol	100.0	81.91	81.9	45 - 110
4-Chloroaniline	50.00	28.88	57.8	15 - 110
Bis(2-chloroethoxy)methane	50.00	37.19	74.4	45 - 105
Bis(2-chloroethyl)ether	50.00	36.70	73.4	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	27.37	54.7	25 - 130
2-Chloronaphthalene	50.00	36.71	73.4	50 - 105
2-Chlorophenol	100.0	71.09	71.1	35 - 105
4-Chlorophenyl phenyl ether	**50.00**	**58.16**	**116**	**50 - 110**
Chrysene	50.00	46.16	92.3	55 - 110
Dibenz(a,h)anthracene	50.00	42.21	84.4	40 - 125
Dibenzofuran	50.00	44.77	89.5	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K17001	Laboratory ID:	1K17001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	46.02	92.0	55 - 115
2,4-Dichlorophenol	100.0	71.05	71.1	40 - 110
Diethylphthalate	50.00	57.64	115	40 - 120
2,4-Dimethylphenol	100.0	75.47	75.5	30 - 110
Dimethyl phthalate	50.00	51.53	103	25 - 125
4,6-Dinitro-2-methylphenol	100.0	112.3	112	40 - 130
2,4-Dinitrophenol	100.0	108.4	108	15 - 140
2,4-Dinitrotoluene	50.00	55.20	110	50 - 120
2,6-Dinitrotoluene	50.00	53.18	106	50 - 115
Di-n-octylphthalate	50.00	58.29	117	35 - 135
1,2-Diphenylhydrazine	50.00	48.81	97.6	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	50.31	101	40 - 125
Fluoranthene	50.00	46.19	92.4	55 - 115
Fluorene	50.00	47.00	94.0	50 - 110
Hexachlorobenzene	50.00	50.46	101	50 - 110
Hexachlorobutadiene	50.00	35.55	71.1	25 - 105
Hexachlorocyclopentadiene	50.00	27.97	55.9	10 - 110
Hexachloroethane	50.00	24.13	48.3	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	41.26	82.5	45 - 125
Isophorone	50.00	43.14	86.3	50 - 110
1-Methylnaphthalene	50.00	40.01	80.0	30 - 115
2-Methylnaphthalene	50.00	39.34	78.7	45 - 105
2-Methylphenol	100.0	48.83	48.8	40 - 110
3-Methylphenol/4-Methylphenol	100.0	42.65	42.7	30 - 110
Naphthalene	50.00	34.41	68.8	40 - 100
4-Nitroaniline	50.00	55.27	111	35 - 120
3-Nitroaniline	50.00	36.18	72.4	20 - 125
2-Nitroaniline	**50.00**	**61.26**	**123**	**50 - 115**
Nitrobenzene	50.00	51.44	103	30 - 110
4-Nitrophenol	100.0	43.88	43.9	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K17001	Laboratory ID:	1K17001-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	100.0	88.97	89.0	40 - 115
N-Nitrosodiphenylamine	50.00	33.53	67.1	50 - 110
N-Nitroso-di-n-propylamine	50.00	51.18	102	35 - 130
Pentachlorophenol	100.0	101.8	102	40 - 115
Phenanthrene	50.00	40.93	81.9	50 - 115
Phenol	100.0	22.48	22.5	0 - 115
Pyrene	50.00	48.76	97.5	50 - 130
2,4,6-Trichlorophenol	100.0	97.61	97.6	50 - 115
2,4,5-Trichlorophenol	100.0	102.9	103	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	40.66	81.3	9.54	30	20 - 110
Acenaphthene	50.00	35.32	70.6	21.2	30	45 - 110
Acenaphthylene	50.00	32.51	65.0	20.2	30	50 - 105
Acetophenone	50.00	35.36	70.7	28.7	30	50 - 110
Anthracene	50.00	35.13	70.3	10.9	30	55 - 110
Atrazine	50.00	45.73	91.5	14.4	30	70 - 115
Benzaldehyde	50.00	29.89	59.8	29.1	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	43.87	87.7	11.8	30	55 - 110
Benzo(a)pyrene	50.00	44.02	88.0	14.7	30	55 - 110
Benzo(b)fluoranthene	50.00	48.98	98.0	10.9	30	45 - 120
Benzo(g,h,i)perylene	50.00	35.39	70.8	13.3	30	40 - 125
Benzoic acid	100.0	17.89	17.9	5.35	30	0 - 125
Benzo(k)fluoranthene	50.00	44.96	89.9	9.55	30	45 - 125
1,1-Biphenyl	50.00	30.64	61.3	24.6	30	50 - 110
4-Bromophenyl-phenylether	50.00	44.29	88.6	19.0	30	50 - 115
Butylbenzylphthalate	50.00	47.61	95.2	12.1	30	45 - 115
Caprolactam	**50.00**	**7.449**	**14.9 ***	**23.8**	**30**	**20 - 110**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K17001	Laboratory ID:	1K17001-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.00	36.32	72.6	10.4	30	50 - 115
4-Chloro-3-methylphenol	100.0	64.49	64.5	23.8	30	45 - 110
4-Chloroaniline	50.00	25.98	52.0	10.5	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	28.04	56.1	28.0	30	45 - 105
Bis(2-chloroethyl)ether	50.00	26.89	53.8	30.9 *	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	21.54	43.1	23.8	30	25 - 130
2-Chloronaphthalene	50.00	29.10	58.2	23.1	30	50 - 105
2-Chlorophenol	100.0	50.84	50.8	33.2 *	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	49.39	98.8	16.3	30	50 - 110
Chrysene	50.00	42.16	84.3	9.07	30	55 - 110
Dibenz(a,h)anthracene	50.00	37.57	75.1	11.6	30	40 - 125
Dibenzofuran	50.00	38.17	76.3	15.9	30	55 - 105
Di-n-butylphthalate	50.00	41.33	82.7	10.7	30	55 - 115
2,4-Dichlorophenol	100.0	52.35	52.3	30.3 *	30	40 - 110
Diethylphthalate	50.00	50.52	101	13.2	30	40 - 120
2,4-Dimethylphenol	100.0	54.39	54.4	32.5 *	30	30 - 110
Dimethyl phthalate	50.00	44.48	89.0	14.7	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	103.8	104	7.89	30	40 - 130
2,4-Dinitrophenol	100.0	100.8	101	7.25	30	15 - 140
2,4-Dinitrotoluene	50.00	49.08	98.2	11.7	30	50 - 120
2,6-Dinitrotoluene	50.00	46.98	94.0	12.4	30	50 - 115
Di-n-octylphthalate	50.00	51.44	103	12.5	30	35 - 135
1,2-Diphenylhydrazine	50.00	42.17	84.3	14.6	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	45.84	91.7	9.31	30	40 - 125
Fluoranthene	50.00	42.83	85.7	7.55	30	55 - 115
Fluorene	50.00	40.41	80.8	15.1	30	50 - 110
Hexachlorobenzene	50.00	43.12	86.2	15.7	30	50 - 110
Hexachlorobutadiene	50.00	24.23	48.5	37.9 *	30	25 - 105
Hexachlorocyclopentadiene	50.00	20.70	41.4	29.9	30	10 - 110
Hexachloroethane	50.00	17.11	34.2	34.0 *	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K17001	Laboratory ID:	1K17001-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	50.00	35.23	70.5	15.8	30	45 - 125
Isophorone	50.00	33.67	67.3	24.7	30	50 - 110
1-Methylnaphthalene	50.00	30.66	61.3	26.5	30	30 - 115
2-Methylnaphthalene	50.00	31.42	62.8	22.4	30	45 - 105
2-Methylphenol	**100.0**	**36.64**	**36.6 ***	**28.5**	**30**	**40 - 110**
3-Methylphenol/4-Methylphenol	100.0	32.66	32.7	26.5	30	30 - 110
Naphthalene	50.00	25.84	51.7	28.4	30	40 - 100
4-Nitroaniline	50.00	47.52	95.0	15.1	30	35 - 120
3-Nitroaniline	50.00	34.49	69.0	4.78	30	20 - 125
2-Nitroaniline	50.00	53.91	108	12.8	30	50 - 115
Nitrobenzene	50.00	38.71	77.4	28.2	30	30 - 110
4-Nitrophenol	100.0	38.89	38.9	12.1	30	0 - 125
2-Nitrophenol	100.0	65.58	65.6	30.3 *	30	40 - 115
N-Nitrosodiphenylamine	50.00	29.00	58.0	14.5	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	41.06	82.1	21.9	30	35 - 130
Pentachlorophenol	100.0	88.09	88.1	14.4	30	40 - 115
Phenanthrene	50.00	37.27	74.5	9.36	30	50 - 115
Phenol	100.0	17.09	17.1	27.2	30	0 - 115
Pyrene	50.00	43.27	86.5	11.9	30	50 - 130
2,4,6-Trichlorophenol	100.0	75.93	75.9	25.0	30	50 - 115
2,4,5-Trichlorophenol	100.0	81.70	81.7	22.9	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21011	Laboratory ID:	1K21011-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	52.53	105	20 - 110
Acenaphthene	50.00	40.91	81.8	45 - 110
Acenaphthylene	50.00	37.44	74.9	50 - 105
Acetophenone	50.00	45.62	91.2	50 - 110
Anthracene	50.00	38.19	76.4	55 - 110
Atrazine	50.00	48.14	96.3	70 - 115
Benzaldehyde	50.00	40.63	81.3	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	48.03	96.1	55 - 110
Benzo(a)pyrene	50.00	44.97	89.9	55 - 110
Benzo(b)fluoranthene	50.00	47.36	94.7	45 - 120
Benzo(g,h,i)perylene	50.00	43.07	86.1	40 - 125
Benzoic acid	100.0	13.56	13.6	0 - 125
Benzo(k)fluoranthene	50.00	48.73	97.5	45 - 125
1,1-Biphenyl	50.00	36.51	73.0	50 - 110
4-Bromophenyl-phenylether	50.00	46.77	93.5	50 - 115
Butylbenzylphthalate	50.00	53.17	106	45 - 115
Caprolactam	**50.00**	**7.546**	**15.1**	**20 - 110**
Carbazole	50.00	39.50	79.0	50 - 115
4-Chloro-3-methylphenol	100.0	77.49	77.5	45 - 110
4-Chloroaniline	50.00	31.00	62.0	15 - 110
Bis(2-chloroethoxy)methane	50.00	35.52	71.0	45 - 105
Bis(2-chloroethyl)ether	50.00	35.24	70.5	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	26.82	53.6	25 - 130
2-Chloronaphthalene	50.00	35.28	70.6	50 - 105
2-Chlorophenol	100.0	66.37	66.4	35 - 105
4-Chlorophenyl phenyl ether	**50.00**	**55.94**	**112**	**50 - 110**
Chrysene	50.00	45.95	91.9	55 - 110
Dibenz(a,h)anthracene	50.00	43.87	87.7	40 - 125
Dibenzofuran	50.00	43.83	87.7	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21011	Laboratory ID:	1K21011-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	44.54	89.1	55 - 115
2,4-Dichlorophenol	100.0	67.85	67.9	40 - 110
Diethylphthalate	50.00	54.81	110	40 - 120
2,4-Dimethylphenol	100.0	72.98	73.0	30 - 110
Dimethyl phthalate	50.00	48.86	97.7	25 - 125
4,6-Dinitro-2-methylphenol	100.0	109.7	110	40 - 130
2,4-Dinitrophenol	100.0	112.0	112	15 - 140
2,4-Dinitrotoluene	50.00	52.58	105	50 - 120
2,6-Dinitrotoluene	50.00	49.82	99.6	50 - 115
Di-n-octylphthalate	50.00	50.52	101	35 - 135
1,2-Diphenylhydrazine	50.00	46.02	92.0	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	50.40	101	40 - 125
Fluoranthene	50.00	43.51	87.0	55 - 115
Fluorene	50.00	44.87	89.7	50 - 110
Hexachlorobenzene	50.00	46.87	93.7	50 - 110
Hexachlorobutadiene	50.00	32.55	65.1	25 - 105
Hexachlorocyclopentadiene	50.00	24.90	49.8	10 - 110
Hexachloroethane	50.00	24.53	49.1	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	44.30	88.6	45 - 125
Isophorone	50.00	40.97	81.9	50 - 110
1-Methylnaphthalene	50.00	38.53	77.1	30 - 115
2-Methylnaphthalene	50.00	38.80	77.6	45 - 105
2-Methylphenol	100.0	43.23	43.2	40 - 110
3-Methylphenol/4-Methylphenol	100.0	37.76	37.8	30 - 110
Naphthalene	50.00	34.78	69.6	40 - 100
4-Nitroaniline	50.00	52.55	105	35 - 120
3-Nitroaniline	50.00	40.32	80.6	20 - 125
2-Nitroaniline	**50.00**	**59.00**	**118**	**50 - 115**
Nitrobenzene	50.00	49.12	98.2	30 - 110
4-Nitrophenol	100.0	36.27	36.3	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21011	Laboratory ID:	1K21011-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	100.0	88.45	88.4	40 - 115
N-Nitrosodiphenylamine	50.00	31.27	62.5	50 - 110
N-Nitroso-di-n-propylamine	50.00	49.34	98.7	35 - 130
Pentachlorophenol	100.0	94.68	94.7	40 - 115
Phenanthrene	50.00	38.06	76.1	50 - 115
Phenol	100.0	18.91	18.9	0 - 115
Pyrene	50.00	48.16	96.3	50 - 130
2,4,6-Trichlorophenol	100.0	96.23	96.2	50 - 115
2,4,5-Trichlorophenol	100.0	101.5	101	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	50.02	100	4.91	30	20 - 110
Acenaphthene	50.00	39.24	78.5	4.16	30	45 - 110
Acenaphthylene	50.00	36.34	72.7	2.96	30	50 - 105
Acetophenone	50.00	46.22	92.4	1.32	30	50 - 110
Anthracene	50.00	38.24	76.5	0.138	30	55 - 110
Atrazine	50.00	49.94	99.9	3.65	30	70 - 115
Benzaldehyde	50.00	40.13	80.3	1.23	30	10 - 180
Benzidine	50.00	13.15	26.3		30	0 - 200
Benzo(a)anthracene	50.00	47.28	94.6	1.58	30	55 - 110
Benzo(a)pyrene	50.00	44.58	89.2	0.862	30	55 - 110
Benzo(b)fluoranthene	50.00	47.98	96.0	1.30	30	45 - 120
Benzo(g,h,i)perylene	50.00	40.63	81.3	5.82	30	40 - 125
Benzoic acid	100.0	14.64	14.6	7.71	30	0 - 125
Benzo(k)fluoranthene	50.00	47.43	94.9	2.69	30	45 - 125
1,1-Biphenyl	50.00	35.45	70.9	2.95	30	50 - 110
4-Bromophenyl-phenylether	50.00	47.84	95.7	2.27	30	50 - 115
Butylbenzylphthalate	50.00	53.44	107	0.497	30	45 - 115
Caprolactam	**50.00**	**7.097**	**14.2 ***	**6.14**	**30**	**20 - 110**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21011	Laboratory ID:	1K21011-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.00	39.66	79.3	0.398	30	50 - 115
4-Chloro-3-methylphenol	100.0	74.26	74.3	4.25	30	45 - 110
4-Chloroaniline	50.00	30.27	60.5	2.39	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	36.06	72.1	1.50	30	45 - 105
Bis(2-chloroethyl)ether	50.00	36.32	72.6	3.03	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	27.36	54.7	2.00	30	25 - 130
2-Chloronaphthalene	50.00	33.11	66.2	6.35	30	50 - 105
2-Chlorophenol	100.0	65.14	65.1	1.87	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	52.12	104	7.06	30	50 - 110
Chrysene	50.00	44.61	89.2	2.97	30	55 - 110
Dibenz(a,h)anthracene	50.00	41.06	82.1	6.61	30	40 - 125
Dibenzofuran	50.00	41.37	82.7	5.77	30	55 - 105
Di-n-butylphthalate	50.00	42.91	85.8	3.71	30	55 - 115
2,4-Dichlorophenol	100.0	66.95	67.0	1.33	30	40 - 110
Diethylphthalate	50.00	51.59	103	6.06	30	40 - 120
2,4-Dimethylphenol	100.0	70.37	70.4	3.64	30	30 - 110
Dimethyl phthalate	50.00	46.31	92.6	5.37	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	112.3	112	2.37	30	40 - 130
2,4-Dinitrophenol	100.0	108.4	108	3.27	30	15 - 140
2,4-Dinitrotoluene	50.00	51.68	103	1.72	30	50 - 120
2,6-Dinitrotoluene	50.00	49.42	98.8	0.811	30	50 - 115
Di-n-octylphthalate	50.00	51.97	104	2.83	30	35 - 135
1,2-Diphenylhydrazine	50.00	45.20	90.4	1.79	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	48.20	96.4	4.46	30	40 - 125
Fluoranthene	50.00	43.75	87.5	0.554	30	55 - 115
Fluorene	50.00	43.19	86.4	3.81	30	50 - 110
Hexachlorobenzene	50.00	46.67	93.3	0.425	30	50 - 110
Hexachlorobutadiene	50.00	24.89	49.8	26.7	30	25 - 105
Hexachlorocyclopentadiene	50.00	19.83	39.7	22.7	30	10 - 110
Hexachloroethane	50.00	18.26	36.5	29.3	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21011	Laboratory ID:	1K21011-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	50.00	41.54	83.1	6.44	30	45 - 125
Isophorone	50.00	40.83	81.7	0.347	30	50 - 110
1-Methylnaphthalene	50.00	38.15	76.3	0.969	30	30 - 115
2-Methylnaphthalene	50.00	36.23	72.5	6.85	30	45 - 105
2-Methylphenol	100.0	42.72	42.7	1.21	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	37.62	37.6	0.389	30	30 - 110
Naphthalene	50.00	31.39	62.8	10.2	30	40 - 100
4-Nitroaniline	50.00	48.14	96.3	8.76	30	35 - 120
3-Nitroaniline	50.00	37.28	74.6	7.84	30	20 - 125
2-Nitroaniline	50.00	56.45	113	4.41	30	50 - 115
Nitrobenzene	50.00	49.75	99.5	1.28	30	30 - 110
4-Nitrophenol	100.0	31.78	31.8	13.2	30	0 - 125
2-Nitrophenol	100.0	88.56	88.6	0.129	30	40 - 115
N-Nitrosodiphenylamine	50.00	32.53	65.1	3.95	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	50.29	101	1.91	30	35 - 130
Pentachlorophenol	100.0	94.91	94.9	0.248	30	40 - 115
Phenanthrene	50.00	37.97	75.9	0.249	30	50 - 115
Phenol	100.0	18.44	18.4	2.55	30	0 - 115
Pyrene	50.00	47.93	95.9	0.492	30	50 - 130
2,4,6-Trichlorophenol	100.0	92.69	92.7	3.74	30	50 - 115
2,4,5-Trichlorophenol	100.0	96.81	96.8	4.69	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K17001 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/17/11 10:00	1,000.00	1.00
GW0289	1111148-03	11/17/11 10:00	1,040.00	1.00
GW0290	1111148-05	11/17/11 10:00	1,020.00	1.00
GW0331	1111148-07	11/17/11 10:00	1,060.00	1.00
GW0332	1111148-09	11/17/11 10:00	1,040.00	1.00
GW0352	1111148-11	11/17/11 10:00	1,060.00	1.00
GW0288	1111162-01	11/17/11 14:00	1,040.00	1.00
GW0344	1111162-03	11/17/11 14:00	1,000.00	1.00
GW0345	1111162-05	11/17/11 14:00	1,020.00	1.00
GW0351	1111162-07	11/17/11 14:00	1,060.00	1.00
Blank	1K17001-BLK1	11/17/11 10:00	1,000.00	1.00
LCS	1K17001-BS1	11/17/11 10:00	1,000.00	1.00
LCS Dup	1K17001-BSD1	11/17/11 10:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K21011 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0274	1111177-01	11/21/11 12:00	1,060.00	1.00
GW0275	1111177-03	11/21/11 12:00	1,060.00	1.00
GW0346	1111177-05	11/21/11 12:00	1,040.00	1.00
GW0353	1111177-07	11/21/11 12:00	1,040.00	1.00
Blank	1K21011-BLK1	11/21/11 12:00	1,000.00	1.00
LCS	1K21011-BS1	11/21/11 12:00	1,000.00	1.00
LCS Dup	1K21011-BSD1	11/21/11 12:00	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/04/11
Instrument ID:	MS-BNA1	Injection Time:	14:51
Sequence:	1K31411	Lab Sample ID:	1K31411-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	38.9	PASS
70	Less than 2% of 69	0.471	PASS
127	40 - 60% of 198	45.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.37	PASS
275	10 - 30% of 198	19.9	PASS
365	1 - 200% of 198	2.79	PASS
441	0.001 - 100% of 443	80.5	PASS
442	40 - 200% of 198	94	PASS
443	17 - 23% of 442	18.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/05/11
Instrument ID:	MS-BNA1	Injection Time:	16:30
Sequence:	1K31411	Lab Sample ID:	1K31411-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	36.4	PASS
68	Less than 2% of 69	0.417	PASS
69	Less than 200% of 198	43.7	PASS
70	Less than 2% of 69	0.79	PASS
127	40 - 60% of 198	45.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.7	PASS
275	10 - 30% of 198	19.5	PASS
365	1 - 200% of 198	2.75	PASS
441	0.001 - 100% of 443	77	PASS
442	40 - 200% of 198	109	PASS
443	17 - 23% of 442	19.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/23/11
Instrument ID:	MS-BNA1	Injection Time:	13:28
Sequence:	1K33208	Lab Sample ID:	1K33208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	43.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	68.2	PASS
70	Less than 2% of 69	0.355	PASS
127	40 - 60% of 198	59.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.19	PASS
275	10 - 30% of 198	16.9	PASS
365	1 - 200% of 198	1.81	PASS
441	0.001 - 100% of 443	74.5	PASS
442	40 - 200% of 198	64.5	PASS
443	17 - 23% of 442	19.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/30/11
Instrument ID:	MS-BNA1	Injection Time:	12:50
Sequence:	1L33501	Lab Sample ID:	1L33501-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	33.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.2	PASS
70	Less than 2% of 69	0.533	PASS
127	40 - 60% of 198	49.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.84	PASS
275	10 - 30% of 198	20.8	PASS
365	1 - 200% of 198	2.68	PASS
441	0.001 - 100% of 443	74.5	PASS
442	40 - 200% of 198	127	PASS
443	17 - 23% of 442	19.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	12/01/11
Instrument ID:	MS-BNA1	Injection Time:	07:01
Sequence:	1L33501	Lab Sample ID:	1L33501-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	35.9	PASS
68	Less than 2% of 69	1.17	PASS
69	Less than 200% of 198	55.3	PASS
70	Less than 2% of 69	0.265	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	6.84	PASS
275	10 - 30% of 198	21.6	PASS
365	1 - 200% of 198	2.77	PASS
441	0.001 - 100% of 443	71.5	PASS
442	40 - 200% of 198	123	PASS
443	17 - 23% of 442	20.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUNE.D	Injection Date:	12/03/11
Instrument ID:	MS-BNA1	Injection Time:	00:21
Sequence:	1L33702	Lab Sample ID:	1L33702-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.5	PASS
68	Less than 2% of 69	0.628	PASS
69	Less than 200% of 198	53.4	PASS
70	Less than 2% of 69	0.406	PASS
127	40 - 60% of 198	53.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.57	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.72	PASS
441	0.001 - 100% of 443	75	PASS
442	40 - 200% of 198	121	PASS
443	17 - 23% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/03/11
Instrument ID:	MS-BNA1	Injection Time:	11:38
Sequence:	1L33907	Lab Sample ID:	1L33907-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	46.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	67	PASS
70	Less than 2% of 69	0	PASS
127	40 - 60% of 198	57.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.36	PASS
275	10 - 30% of 198	19.8	PASS
365	1 - 200% of 198	2.38	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	65.5	PASS
443	17 - 23% of 442	19.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K31411	Instrument:	MS-BNA1
Calibration:	1314005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1K31411-TUN1	SEQ-TUN1.D	11/04/11 14:51
Cal Standard	1K31411-CAL1	SEQ-CAL1.D	11/04/11 15:15
Cal Standard	1K31411-CAL2	SEQ-CAL2.D	11/04/11 15:46
Cal Standard	1K31411-CAL3	SEQ-CAL3.D	11/04/11 16:17
Cal Standard	1K31411-CAL4	SEQ-CAL4.D	11/04/11 16:48
Cal Standard	1K31411-CAL5	SEQ-CAL5.D	11/04/11 17:19
Cal Standard	1K31411-CAL6	SEQ-CAL6.D	11/04/11 17:50
Cal Standard	1K31411-CAL7	SEQ-CAL7.D	11/04/11 18:20
Cal Standard	1K31411-CAL8	SEQ-CAL8.D	11/04/11 18:51
Cal Standard	1K31411-CAL9	SEQ-CAL9.D	11/04/11 19:21
Cal Standard	1K31411-CALA	SEQ-CALA.D	11/04/11 19:52
Cal Standard	1K31411-CALB	SEQ-CALB.D	11/04/11 20:22
Cal Standard	1K31411-CALC	SEQ-CALC.D	11/04/11 20:53
Cal Standard	1K31411-CALD	SEQ-CALD.D	11/04/11 21:23
Cal Standard	1K31411-CALE	SEQ-CALE.D	11/04/11 21:53
Cal Standard	1K31411-CALF	SEQ-CALF.D	11/04/11 22:24
Cal Standard	1K31411-CALG	SEQ-CALG.D	11/04/11 22:54
Initial Cal Check	1K31411-ICV1	SEQ-ICV1.D	11/04/11 23:25
Initial Cal Check	1K31411-ICV2	SEQ-ICV2.D	11/04/11 23:56
MS Tune	1K31411-TUN2	SEQ-TUN1.D	11/05/11 16:30
Initial Cal Check	1K31411-ICV3	SEQ-ICV3.D	11/05/11 16:54

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33208	Instrument:	MS-BNA1
Calibration:	1314005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1K33208-TUN1	SEQ-TUN1.D	11/23/11 13:28
Calibration Check	1K33208-CCV1	SEQ-CCV1.D	11/23/11 13:52
Blank	1K21011-BLK1	K21011B1.D	11/23/11 16:55
LCS	1K21011-BS1	K21011L1.D	11/23/11 17:26
LCS Dup	1K21011-BSD1	K21011L2.D	11/23/11 17:56
GW0274	1111177-01	1117701.D	11/23/11 19:58
GW0275	1111177-03	1117703.D	11/23/11 20:28
GW0346	1111177-05	1117705.D	11/23/11 20:58
GW0353	1111177-07	1117707.D	11/23/11 21:29
Blank	1K17001-BLK1	K17001B1.D	11/23/11 22:29
LCS	1K17001-BS1	K17001L1.D	11/23/11 22:59
LCS Dup	1K17001-BSD1	K17001L2.D	11/23/11 23:30

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33501	Instrument:	MS-BNA1
Calibration:	1339003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L33501-TUN1	SEQ-TUN1.D	11/30/11 12:50
Cal Standard	1L33501-CAL1	SEQ-CAL1.D	11/30/11 13:15
Cal Standard	1L33501-CAL2	SEQ-CAL2.D	11/30/11 13:46
Cal Standard	1L33501-CAL3	SEQ-CAL3.D	11/30/11 14:17
Cal Standard	1L33501-CAL4	SEQ-CAL4.D	11/30/11 14:48
Cal Standard	1L33501-CAL5	SEQ-CAL5.D	11/30/11 15:19
Cal Standard	1L33501-CAL6	SEQ-CAL6.D	11/30/11 15:51
Cal Standard	1L33501-CAL7	SEQ-CAL7.D	11/30/11 16:22
Cal Standard	1L33501-CAL8	SEQ-CAL8.D	11/30/11 16:52
Cal Standard	1L33501-CAL9	SEQ-CAL9.D	11/30/11 17:23
Cal Standard	1L33501-CALA	SEQ-CALA.D	11/30/11 17:54
Cal Standard	1L33501-CALB	SEQ-CALB.D	11/30/11 18:24
Cal Standard	1L33501-CALC	SEQ-CALC.D	11/30/11 18:55
Cal Standard	1L33501-CALD	SEQ-CALD.D	11/30/11 19:25
Cal Standard	1L33501-CALE	SEQ-CALE.D	11/30/11 19:55
Cal Standard	1L33501-CALF	SEQ-CALF.D	11/30/11 20:25
Cal Standard	1L33501-CALG	SEQ-CALG.D	11/30/11 20:56
Initial Cal Check	1L33501-ICV1	SEQ-ICV1.D	11/30/11 21:26
Initial Cal Check	1L33501-ICV2	SEQ-ICV2.D	11/30/11 21:56
MS Tune	1L33501-TUN2	SEQ-TUN2.D	12/01/11 07:01
Initial Cal Check	1L33501-ICV4	SEQ-ICV4.D	12/01/11 09:27

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33702	Instrument:	MS-BNA1
Calibration:	1339003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L33702-TUN1	SEQ-TUNE.D	12/03/11 00:21
Calibration Check	1L33702-CCV1	SEQ-CCVE.D	12/03/11 00:46
GW0250	1111148-01	1114801.D	12/03/11 08:23
GW0289	1111148-03	1114803.D	12/03/11 08:54
GW0290	1111148-05	1114805.D	12/03/11 09:25
GW0331	1111148-07	1114807.D	12/03/11 09:55
GW0332	1111148-09	1114809.D	12/03/11 10:27

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33907	Instrument:	MS-BNA1
Calibration:	1339003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L33907-TUN1	SEQ-TUN1.D	12/03/11 11:38
Calibration Check	1L33907-CCV1	SEQ-CCV1.D	12/03/11 12:03
GW0352	1111148-11	1114811.D	12/03/11 12:39
GW0288	1111162-01	1116201.D	12/03/11 13:10
GW0344	1111162-03	1116203.D	12/03/11 13:41
GW0345	1111162-05	1116205.D	12/03/11 14:12
GW0351	1111162-07	1116207.D	12/03/11 14:43

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33208	Instrument:	MS-BNA1
		Calibration:	1314005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1K33208-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/23/11 13:52			
1,4-Dichlorobenzene-d4	418700	5.306	454454	5.57	92	50 - 200	-0.2640	+/-0.50	
Naphthalene-d8	1651591	6.983	1719676	7.234	96	50 - 200	-0.2510	+/-0.50	
Acenaphthene-d10	668877	9.203	764877	9.456	87	50 - 200	-0.2530	+/-0.50	
Phenanthrene-d10	1195738	10.985	1194146	11.239	100	50 - 200	-0.2540	+/-0.50	
Chrysene-d12	896497	14.605	897788	14.954	100	50 - 200	-0.3490	+/-0.50	
Perylene-d12	743891	17.118	746175	17.523	100	50 - 200	-0.4050	+/-0.50	
Blank (1K21011-BLK1)			Lab File ID: K21011B1.D			Analyzed: 11/23/11 16:55			
1,4-Dichlorobenzene-d4	443707	5.303	418700	5.306	106	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1794575	6.976	1651591	6.983	109	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	789743	9.204	668877	9.203	118	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1295518	10.977	1195738	10.985	108	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1005946	14.598	896497	14.605	112	50 - 200	-0.0070	+/-0.50	
Perylene-d12	793132	17.115	743891	17.118	107	50 - 200	-0.0030	+/-0.50	
LCS (1K21011-BS1)			Lab File ID: K21011L1.D			Analyzed: 11/23/11 17:26			
1,4-Dichlorobenzene-d4	466659	5.305	418700	5.306	111	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1945134	6.983	1651591	6.983	118	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	805150	9.21	668877	9.203	120	50 - 200	0.0070	+/-0.50	
Phenanthrene-d10	1503566	10.986	1195738	10.985	126	50 - 200	0.0010	+/-0.50	
Chrysene-d12	1067597	14.609	896497	14.605	119	50 - 200	0.0040	+/-0.50	
Perylene-d12	882913	17.122	743891	17.118	119	50 - 200	0.0040	+/-0.50	
LCS Dup (1K21011-BSD1)			Lab File ID: K21011L2.D			Analyzed: 11/23/11 17:56			
1,4-Dichlorobenzene-d4	463209	5.305	418700	5.306	111	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1946655	6.982	1651591	6.983	118	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	819240	9.209	668877	9.203	122	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	1443372	10.984	1195738	10.985	121	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	965838	14.605	896497	14.605	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	754276	17.11	743891	17.118	101	50 - 200	-0.0080	+/-0.50	
GW0274 (1111177-01)			Lab File ID: 1117701.D			Analyzed: 11/23/11 19:58			
1,4-Dichlorobenzene-d4	466901	5.303	418700	5.306	112	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1886230	6.975	1651591	6.983	114	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	796564	9.203	668877	9.203	119	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1339254	10.976	1195738	10.985	112	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	989841	14.596	896497	14.605	110	50 - 200	-0.0090	+/-0.50	
Perylene-d12	767866	17.108	743891	17.118	103	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1K33208
Instrument: MS-BNA1
Calibration: 1314005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0275 (1111177-03)			Lab File ID: 1117703.D			Analyzed: 11/23/11 20:28			
1,4-Dichlorobenzene-d4	449467	5.302	418700	5.306	107	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1846314	6.974	1651591	6.983	112	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	770761	9.201	668877	9.203	115	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1275943	10.974	1195738	10.985	107	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	967794	14.597	896497	14.605	108	50 - 200	-0.0080	+/-0.50	
Perylene-d12	752248	17.108	743891	17.118	101	50 - 200	-0.0100	+/-0.50	
GW0346 (1111177-05)			Lab File ID: 1117705.D			Analyzed: 11/23/11 20:58			
1,4-Dichlorobenzene-d4	460459	5.302	418700	5.306	110	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1911686	6.974	1651591	6.983	116	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	815197	9.201	668877	9.203	122	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1393672	10.974	1195738	10.985	117	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1048157	14.595	896497	14.605	117	50 - 200	-0.0100	+/-0.50	
Perylene-d12	806486	17.106	743891	17.118	108	50 - 200	-0.0120	+/-0.50	
GW0353 (1111177-07)			Lab File ID: 1117707.D			Analyzed: 11/23/11 21:29			
1,4-Dichlorobenzene-d4	457698	5.302	418700	5.306	109	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1917282	6.974	1651591	6.983	116	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	810838	9.201	668877	9.203	121	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1365182	10.973	1195738	10.985	114	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1066406	14.596	896497	14.605	119	50 - 200	-0.0090	+/-0.50	
Perylene-d12	838550	17.108	743891	17.118	113	50 - 200	-0.0100	+/-0.50	
Blank (1K17001-BLK1)			Lab File ID: K17001B1.D			Analyzed: 11/23/11 22:29			
1,4-Dichlorobenzene-d4	471482	5.301	418700	5.306	113	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1920648	6.973	1651591	6.983	116	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	806278	9.199	668877	9.203	121	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1342061	10.983	1195738	10.985	112	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1019706	14.595	896497	14.605	114	50 - 200	-0.0100	+/-0.50	
Perylene-d12	824840	17.107	743891	17.118	111	50 - 200	-0.0110	+/-0.50	
LCS (1K17001-BS1)			Lab File ID: K17001L1.D			Analyzed: 11/23/11 22:59			
1,4-Dichlorobenzene-d4	461870	5.303	418700	5.306	110	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1894334	6.981	1651591	6.983	115	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	786505	9.198	668877	9.203	118	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1451197	10.985	1195738	10.985	121	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1012986	14.606	896497	14.605	113	50 - 200	0.0010	+/-0.50	
Perylene-d12	734976	17.11	743891	17.118	99	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33208	Instrument:	MS-BNA1
		Calibration:	1314005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (1K17001-BSD1)			Lab File ID: K17001L2.D			Analyzed: 11/23/11 23:30			
1,4-Dichlorobenzene-d4	494328	5.302	418700	5.306	118	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	2055334	6.979	1651591	6.983	124	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	843546	9.205	668877	9.203	126	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	1544477	10.989	1195738	10.985	129	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1106669	14.608	896497	14.605	123	50 - 200	0.0030	+/-0.50	
Perylene-d12	842862	17.11	743891	17.118	113	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33702	Instrument:	MS-BNA1
		Calibration:	1339003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L33702-CCV1)			Lab File ID: SEQ-CCVE.D			Analyzed: 12/03/11 00:46			
1,4-Dichlorobenzene-d4	371701	5.235	376753	5.245	99	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1421049	6.911	1434948	6.923	99	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10	643621	9.138	635965	9.15	101	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1200625	10.913	1163095	10.925	103	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	882313	14.499	871016	14.523	101	50 - 200	-0.0240	+/-0.50	
Perylene-d12	677780	17.002	681720	17.015	99	50 - 200	-0.0130	+/-0.50	
GW0250 (1111148-01)			Lab File ID: 1114801.D			Analyzed: 12/03/11 08:23			
1,4-Dichlorobenzene-d4	359550	5.223	371701	5.235	97	50 - 200	-0.0120	+/-0.50	
Naphthalene-d8	1354028	6.903	1421049	6.911	95	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	624118	9.129	643621	9.138	97	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1079883	10.909	1200625	10.913	90	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	793155	14.499	882313	14.499	90	50 - 200	0.0000	+/-0.50	
Perylene-d12	604970	16.991	677780	17.002	89	50 - 200	-0.0110	+/-0.50	
GW0289 (1111148-03)			Lab File ID: 1114803.D			Analyzed: 12/03/11 08:54			
1,4-Dichlorobenzene-d4	356506	5.232	371701	5.235	96	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1351148	6.901	1421049	6.911	95	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	623561	9.126	643621	9.138	97	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1061292	10.908	1200625	10.913	88	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	821230	14.497	882313	14.499	93	50 - 200	-0.0020	+/-0.50	
Perylene-d12	688300	16.989	677780	17.002	102	50 - 200	-0.0130	+/-0.50	
GW0290 (1111148-05)			Lab File ID: 1114805.D			Analyzed: 12/03/11 09:25			
1,4-Dichlorobenzene-d4	377168	5.231	371701	5.235	101	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1446712	6.902	1421049	6.911	102	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	685905	9.127	643621	9.138	107	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1144785	10.908	1200625	10.913	95	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	884228	14.497	882313	14.499	100	50 - 200	-0.0020	+/-0.50	
Perylene-d12	704660	16.998	677780	17.002	104	50 - 200	-0.0040	+/-0.50	
GW0331 (1111148-07)			Lab File ID: 1114807.D			Analyzed: 12/03/11 09:55			
1,4-Dichlorobenzene-d4	361639	5.221	371701	5.235	97	50 - 200	-0.0140	+/-0.50	
Naphthalene-d8	1332231	6.911	1421049	6.911	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	632100	9.126	643621	9.138	98	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1077068	10.908	1200625	10.913	90	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	886518	14.497	882313	14.499	100	50 - 200	-0.0020	+/-0.50	
Perylene-d12	746445	16.999	677780	17.002	110	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33702	Instrument:	MS-BNA1
		Calibration:	1339003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0332 (1111148-09)			Lab File ID: 1114809.D			Analyzed: 12/03/11 10:27			
1,4-Dichlorobenzene-d4	336093	5.23	371701	5.235	90	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1243091	6.91	1421049	6.911	87	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	584314	9.125	643621	9.138	91	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	969527	10.906	1200625	10.913	81	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	744032	14.494	882313	14.499	84	50 - 200	-0.0050	+/-0.50	
Perylene-d12	576330	16.993	677780	17.002	85	50 - 200	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33907	Instrument:	MS-BNA1
		Calibration:	1339003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L33907-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 12/03/11 12:03			
1,4-Dichlorobenzene-d4	482793	5.232	376753	5.245	128	50 - 200	-0.0130	+/-0.50	
Naphthalene-d8	1852121	6.918	1434948	6.923	129	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	853978	9.141	635965	9.15	134	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1627213	10.918	1163095	10.925	140	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	1141346	14.515	871016	14.523	131	50 - 200	-0.0080	+/-0.50	
Perylene-d12	904028	17.003	681720	17.015	133	50 - 200	-0.0120	+/-0.50	
GW0352 (1111148-11)			Lab File ID: 1114811.D			Analyzed: 12/03/11 12:39			
1,4-Dichlorobenzene-d4	315464	5.235	482793	5.232	65	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1075715	6.918	1852121	6.918	58	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	555021	9.13	853978	9.141	65	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	892947	10.908	1627213	10.918	55	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	787420	14.503	1141346	14.515	69	50 - 200	-0.0120	+/-0.50	
Perylene-d12	551337	16.997	904028	17.003	61	50 - 200	-0.0060	+/-0.50	
GW0288 (1111162-01)			Lab File ID: 1116201.D			Analyzed: 12/03/11 13:10			
1,4-Dichlorobenzene-d4	321134	5.232	482793	5.232	67	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1282569	6.911	1852121	6.918	69	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	571980	9.132	853978	9.141	67	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	954222	10.91	1627213	10.918	59	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	731435	14.493	1141346	14.515	64	50 - 200	-0.0220	+/-0.50	
Perylene-d12	612031	16.992	904028	17.003	68	50 - 200	-0.0110	+/-0.50	
GW0344 (1111162-03)			Lab File ID: 1116203.D			Analyzed: 12/03/11 13:41			
1,4-Dichlorobenzene-d4	443788	5.237	482793	5.232	92	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	1534367	6.918	1852121	6.918	83	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	747628	9.136	853978	9.141	88	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1155871	10.919	1627213	10.918	71	50 - 200	0.0010	+/-0.50	
Chrysene-d12	873881	14.496	1141346	14.515	77	50 - 200	-0.0190	+/-0.50	
Perylene-d12	576954	17.001	904028	17.003	64	50 - 200	-0.0020	+/-0.50	
GW0345 (1111162-05)			Lab File ID: 1116205.D			Analyzed: 12/03/11 14:12			
1,4-Dichlorobenzene-d4	507878	5.232	482793	5.232	105	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1710960	6.911	1852121	6.918	92	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	830056	9.132	853978	9.141	97	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1332356	10.916	1627213	10.918	82	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	892813	14.503	1141346	14.515	78	50 - 200	-0.0120	+/-0.50	
Perylene-d12	622505	16.996	904028	17.003	69	50 - 200	-0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33907	Instrument:	MS-BNA1
		Calibration:	1339003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0351 (1111162-07)			Lab File ID: 1116207.D			Analyzed: 12/03/11 14:43			
1,4-Dichlorobenzene-d4	340001	5.231	482793	5.232	70	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1055134	6.909	1852121	6.918	57	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	588094	9.13	853978	9.141	69	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	958840	10.908	1627213	10.918	59	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	658152	14.5	1141346	14.515	58	50 - 200	-0.0150	+/-0.50	
Perylene-d12	510693	16.995	904028	17.003	56	50 - 200	-0.0080	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine												
Acenaphthene	5	1.272652	10	1.311372	20	1.323647	40	1.329965	50	1.351067	60	1.30412
Acenaphthylene	5	1.884277	10	1.965761	20	2.081394	40	2.02626	50	2.090465	60	2.088915
Acetophenone												
Aniline	5	2.313954	10	2.307858	20	2.400444	40	2.378872	50	2.417697	60	2.283459
Anthracene	5	1.014701	10	1.074329	20	1.194854	40	1.141272	50	1.137575	60	1.107698
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.015848	10	1.043348	20	1.18179	40	1.087591	50	1.17803	60	1.148772
Benzo(a)pyrene	5	0.8871654	10	0.8868113	20	0.9978811	40	0.9541507	50	0.9998728	60	0.9838674
Benzo(b)fluoranthene	5	0.9653354	10	1.010248	20	1.158223	40	1.100112	50	1.214586	60	1.194915
Benzo(g,h,i)perylene	5	0.7664629	10	0.8022213	20	0.7811349	40	0.8163621	50	0.8203291	60	0.8130618
Benzoic acid	5	9.956592E-02	10	0.1125329	20	0.1532093	40	0.1949754	50	0.2079077	60	0.2081039
Benzo(k)fluoranthene	5	1.06054	10	1.120793	20	1.264311	40	1.098289	50	1.158465	60	1.105056
Benzyl alcohol	5	0.9804126	10	0.9494052	20	1.009035	40	1.019565	50	1.031349	60	1.031045
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.1973487	10	0.218791	20	0.2151627	40	0.2067734	50	0.2245211	60	0.201407
Butylbenzylphthalate	5	0.6714491	10	0.7248523	20	0.8434218	40	0.7936063	50	0.8406605	60	0.8329474
Caprolactam												
Carbazole	5	0.9362096	10	0.9711944	20	1.033499	40	1.051206	50	1.054712	60	1.01577
4-Chloro-3-methylphenol	5	0.2210618	10	0.2278447	20	0.2534868	40	0.2599877	50	0.2618972	60	0.2669216
4-Chloroaniline	5	0.4395974	10	0.4576648	20	0.5030711	40	0.4782222	50	0.4988461	60	0.4754224
Bis(2-chloroethoxy)methane	5	0.4612089	10	0.4733015	20	0.4825366	40	0.4797951	50	0.5066217	60	0.467592
Bis(2-chloroethyl)ether	5	1.522901	10	1.564619	20	1.653871	40	1.570775	50	1.676716	60	1.603609
2,2'-Oxybis-1-chloropropane	5	2.359253	10	2.404821	20	2.479478	40	2.392791	50	2.512036	60	2.411918
2-Chloronaphthalene	5	1.198309	10	1.212335	20	1.242325	40	1.25038	50	1.28167	60	1.256246
2-Chlorophenol	5	1.5648	10	1.544465	20	1.657794	40	1.60432	50	1.670273	60	1.617633
4-Chlorophenyl phenyl ether	5	0.5835591	10	0.5878861	20	0.5915299	40	0.5530234	50	0.5740171	60	0.5468967
Chrysene	5	1.090598	10	1.072889	20	1.144748	40	1.074555	50	1.108901	60	1.067109
Dibenz(a,h)anthracene	5	0.7105238	10	0.7599928	20	0.7664358	40	0.8081991	50	0.840125	60	0.8425108

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1314005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 11/4/11_15:15 11/4/11_22:54

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	5	1.68194	10	1.70263	20	1.776887	40	1.734323	50	1.824426	60	1.812186
Di-n-butylphthalate	5	1.36258	10	1.481476	20	1.646427	40	1.627553	50	1.699517	60	1.654541
1,4-Dichlorobenzene	5	1.608165	10	1.595894	20	1.696962	40	1.585817	50	1.657931	60	1.599678
1,3-Dichlorobenzene	5	1.601289	10	1.567272	20	1.658652	40	1.572544	50	1.626057	60	1.587157
1,2-Dichlorobenzene	5	1.502176	10	1.529918	20	1.575872	40	1.54013	50	1.574078	60	1.499384
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2421002	10	0.2560641	20	0.2746218	40	0.2699977	50	0.2836223	60	0.2678889
Diethylphthalate	5	1.321508	10	1.33964	20	1.442808	40	1.438193	50	1.480589	60	1.503709
2,4-Dimethylphenol	5	0.3034479	10	0.3037897	20	0.3227829	40	0.3176188	50	0.3357654	60	0.317256
Dimethyl phthalate	5	1.288671	10	1.376632	20	1.431105	40	1.391375	50	1.427683	60	1.458557
4,6-Dinitro-2-methylphenol	5	3.788847E-02	10	5.494103E-02	20	8.649743E-02	40	0.1139049	50	0.1174462	60	0.122635
2,4-Dinitrophenol	5	3.154144E-02	10	5.239377E-02	20	8.015143E-02	40	0.1109175	50	0.1282205	60	0.1456018
2,4-Dinitrotoluene	5	0.2076892	10	0.2703727	20	0.3342653	40	0.3670077	50	0.3924319	60	0.4055555
2,6-Dinitrotoluene	5	0.2121692	10	0.2665708	20	0.2969508	40	0.3147541	50	0.335151	60	0.3389892
Di-n-octylphthalate	5	1.181265	10	1.618708	20	2.084701	40	1.954475	50	2.078125	60	2.213467
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.839611	10	0.861327	20	0.9179756	40	0.9716433	50	0.9561756	60	0.9731494
Bis(2-ethylhexyl)phthalate	5	0.8330823	10	0.9714445	20	1.15391	40	1.156039	50	1.189834	60	1.175358
Fluoranthene	5	1.017107	10	1.063113	20	1.131974	40	1.122945	50	1.080313	60	1.062854
Fluorene	5	1.183658	10	1.260592	20	1.314289	40	1.275369	50	1.239553	60	1.224153
2-Fluorobiphenyl	5	1.388417	10	1.446904	20	1.510426	40	1.414009	50	1.535882	60	1.502107
2-Fluorophenol	10	1.496892	20	1.557747	40	1.661005	80	1.583907	100	1.605578	120	1.573341
Hexachlorobenzene	5	0.2522405	10	0.2487074	20	0.2616103	40	0.2477297	50	0.2643381	60	0.2454933
Hexachlorobutadiene	5	0.1428792	10	0.1466348	20	0.1557169	40	0.150107	50	0.1526147	60	0.1438227
Hexachlorocyclopentadiene	5	0.2999525	10	0.3252934	20	0.3484359	40	0.3620183	50	0.3716161	60	0.3680673
Hexachloroethane	5	0.5930411	10	0.6104019	20	0.6630424	40	0.6327137	50	0.6589808	60	0.6520743
Indeno(1,2,3-cd)pyrene	5	0.7341907	10	0.7538516	20	0.7496275	40	0.8331041	50	0.8307062	60	0.8092172
Isophorone	5	0.6607813	10	0.6888071	20	0.7215199	40	0.7078381	50	0.7384669	60	0.7152259
1-Methylnaphthalene	5	0.5220099	10	0.5361592	20	0.5632822	40	0.5504452	50	0.543161	60	0.5467833
2-Methylnaphthalene	5	0.5292173	10	0.5598834	20	0.5569471	40	0.5591277	50	0.5525186	60	0.5502538
2-Methylphenol	5	1.284356	10	1.305623	20	1.421998	40	1.375014	50	1.4261	60	1.354654

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11_15:15 11/4/11_22:54

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	1.277129	10	1.380914	20	1.448446	40	1.421571	50	1.469597	60	1.444581
4-Methylphenol	5	1.277129	10	1.380914	20	1.448446	40	1.421571	50	1.469597	60	1.444581
3-Methylphenol/4-Methylphenol	5	1.277129	10	1.380914	20	1.448446	40	1.421571	50	1.469597	60	1.444581
Naphthalene	5	1.085014	10	1.120473	20	1.186624	40	1.151642	50	1.181206	60	1.117115
4-Nitroaniline	5	0.2034151	10	0.2471458	20	0.2950703	40	0.3096398	50	0.3254447	60	0.3397205
3-Nitroaniline	5	0.2678177	10	0.308305	20	0.3522986	40	0.3896785	50	0.402321	60	0.3930731
2-Nitroaniline	5	0.184914	10	0.2258402	20	0.2556024	40	0.2900138	50	0.3271669	60	0.3031216
Nitrobenzene	5	0.2731853	10	0.2917474	20	0.3081108	40	0.3157288	50	0.3355745	60	0.3226066
Nitrobenzene-d5	5	0.2864537	10	0.2929746	20	0.3264694	40	0.3321533	50	0.3489327	60	0.3354451
4-Nitrophenol	5	0.1004604	10	0.1380682	20	0.159504	40	0.1770832	50	0.1877285	60	0.1998305
2-Nitrophenol	5	0.1546934	10	0.1629068	20	0.1925861	40	0.2052308	50	0.2212935	60	0.2185054
N-Nitrosodimethylamine	5	0.6557832	10	0.6636515	20	0.6564386	40	0.6370875	50	0.6456879	60	0.6234337
N-Nitrosodiphenylamine	5	0.687303	10	0.6786133	20	0.7407676	40	0.7135967	50	0.7435165	60	0.7379859
N-Nitroso-di-n-propylamine	5	0.7945501	10	0.8709679	20	0.9300256	40	0.8796787	50	0.9351778	60	0.9009126
Pentachlorophenol	5	0.116285	10	0.1296632	20	0.1533955	40	0.1609632	50	0.1696689	60	0.1667943
Phenanthrene	5	1.061925	10	1.099114	20	1.15767	40	1.119814	50	1.13459	60	1.081313
Phenol	5	1.996923	10	1.969319	20	2.120134	40	2.028075	50	2.105697	60	1.936101
Phenol-d6	10	1.961568	20	1.916537	40	2.067603	80	1.993454	100	2.038491	120	1.931338
Pyrene	5	1.326531	10	1.404193	20	1.607984	40	1.469648	50	1.508671	60	1.436886
Pyridine	5	1.578904	10	1.691332	20	1.755072	40	1.641298	50	1.649935	60	1.581077
Terphenyl-d14	5	0.8730594	10	0.8895711	20	1.034804	40	0.9225361	50	0.9806631	60	0.9160894
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2611341	10	0.2728364	20	0.2854247	40	0.2958158	50	0.3019279	60	0.2981124
2,4,6-Tribromophenol	10	0.134868	20	0.1422795	40	0.1596463	80	0.1559219	100	0.1605292	120	0.1503074
1,2,4-Trichlorobenzene	5	0.2705317	10	0.2796161	20	0.2886802	40	0.2829964	50	0.2784452	60	0.2730939
2,4,6-Trichlorophenol	5	0.3433235	10	0.3391355	20	0.3744948	40	0.3748241	50	0.3922471	60	0.3675811
2,4,5-Trichlorophenol	5	0.3431782	10	0.3390316	20	0.3706545	40	0.3789519	50	0.400699	60	0.4074271

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine					5	0.2634931	10	0.2957996	20	0.321684	40	0.3388517
Acenaphthene	80	1.290209	100	1.202994								
Acenaphthylene	80	1.971751	100	1.994573								
Acetophenone					5	1.544417	10	1.643647	20	1.655666	40	1.65259
Aniline	80	2.168424	100	2.076891								
Anthracene	80	1.067308	100	1.095935								
Atrazine					5	0.1761262	10	0.1858814	20	0.194869	40	0.1956574
Benzaldehyde					5	1.108584	10	1.147186	20	1.127427	40	1.127406
Benzidine					5	0.4434236	10	0.5460193	20	0.6041485	40	0.7064853
Benzo(a)anthracene	80	1.102598	100	1.074463								
Benzo(a)pyrene	80	1.002024	100	0.9774605								
Benzo(b)fluoranthene	80	1.114987	100	1.139244								
Benzo(g,h,i)perylene	80	0.7430025	100	0.7189062								
Benzoic acid	80	0.229673	100	0.2224301								
Benzo(k)fluoranthene	80	1.249212	100	1.139605								
Benzyl alcohol	80	0.9925108	100	0.9924269								
1,1-Biphenyl					5	1.613619	10	1.616952	20	1.633833	40	1.609786
4-Bromophenyl-phenylether	80	0.2010971	100	0.2020731								
Butylbenzylphthalate	80	0.844922	100	0.8104805								
Caprolactam					5	7.874285E-02	10	8.693781E-02	20	9.583275E-02	40	0.104657
Carbazole	80	0.9682277	100	1.06317								
4-Chloro-3-methylphenol	80	0.2676841	100	0.2515873								
4-Chloroaniline	80	0.4738272	100	0.4523965								
Bis(2-chloroethoxy)methane	80	0.4827923	100	0.4565805								
Bis(2-chloroethyl)ether	80	1.607898	100	1.566265								
2,2'-Oxybis-1-chloropropane	80	2.405227	100	2.344961								
2-Chloronaphthalene	80	1.212657	100	1.146463								
2-Chlorophenol	80	1.623814	100	1.590907								
4-Chlorophenyl phenyl ether	80	0.4974229	100	0.4689046								
Chrysene	80	1.048377	100	1.040365								
Dibenz(a,h)anthracene	80	0.7941651	100	0.7765941								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1314005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 11/4/11 15:15 11/4/11 22:54

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	80	1.728295	100	1.652411								
Di-n-butylphthalate	80	1.562625	100	1.599769								
1,4-Dichlorobenzene	80	1.561664	100	1.492871								
1,3-Dichlorobenzene	80	1.568772	100	1.50954								
1,2-Dichlorobenzene	80	1.503392	100	1.427366								
2,6-Dichlorophenol					5	0.2222393	10	0.2423777	20	0.2469832	40	0.2544101
2,4-Dichlorophenol	80	0.2645707	100	0.2567669								
Diethylphthalate	80	1.420975	100	1.411856								
2,4-Dimethylphenol	80	0.3215533	100	0.3097807								
Dimethyl phthalate	80	1.421413	100	1.291328								
4,6-Dinitro-2-methylphenol	80	0.132323	100	0.1405097								
2,4-Dinitrophenol	80	0.1520823	100	0.1634822								
2,4-Dinitrotoluene	80	0.4159038	100	0.4113676								
2,6-Dinitrotoluene	80	0.3367888	100	0.334537								
Di-n-octylphthalate	80	~~2.498908~~	100	~~2.333372~~								
1,4-Dioxane					5	0.6302292	10	0.5940191	20	0.5904621	40	0.5809991
1,2-Diphenylhydrazine	80	0.9767145	100	1.050288								
Bis(2-ethylhexyl)phthalate	80	1.22624	100	1.178866								
Fluoranthene	80	1.018815	100	1.045764								
Fluorene	80	1.082808	100	1.049697								
2-Fluorobiphenyl	80	1.41641	100	1.32497								
2-Fluorophenol	160	1.589738	200	1.516504								
Hexachlorobenzene	80	0.2408909	100	0.2435389								
Hexachlorobutadiene	80	0.1387779	100	0.1283733								
Hexachlorocyclopentadiene	80	0.3653466	100	0.3442967								
Hexachloroethane	80	0.6313428	100	0.6107314								
Indeno(1,2,3-cd)pyrene	80	0.7785119	100	0.7903143								
Isophorone	80	0.7164151	100	0.6905677								
1-Methylnaphthalene	80	0.5215357	100	0.4964567								
2-Methylnaphthalene	80	0.5182636	100	0.4873881								
2-Methylphenol	80	1.355394	100	1.321512								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

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	1.434074	100	1.370975								
4-Methylphenol	80	1.434074	100	1.370975								
3-Methylphenol/4-Methylphenol	80	1.434074	100	1.370975								
Naphthalene	80	1.100248	100	1.029784								
4-Nitroaniline	80	0.3554564	100	0.3563967								
3-Nitroaniline	80	0.4096332	100	0.3994606								
2-Nitroaniline	80	0.3181927	100	0.3185814								
Nitrobenzene	80	0.3303327	100	0.3248576								
Nitrobenzene-d5	80	0.3476462	100	0.3376567								
4-Nitrophenol	80	0.2000154	100	0.1986697								
2-Nitrophenol	80	0.2186554	100	0.2174075								
N-Nitrosodimethylamine	80	0.6181812	100	0.6014511								
N-Nitrosodiphenylamine	80	0.6645543	100	0.6930501								
N-Nitroso-di-n-propylamine	80	0.9136095	100	0.9238803								
Pentachlorophenol	80	0.1603968	100	0.1749228								
Phenanthrene	80	1.011493	100	1.117417								
Phenol	80	1.991659	100	1.875052								
Phenol-d6	160	1.88059	200	1.792802								
Pyrene	80	1.433481	100	1.358285								
Pyridine	80	1.590666	100	1.621795								
Terphenyl-d14	80	0.9225653	100	0.8661808								
1,2,4,5-Tetrachlorobenzene					5	0.2405748	10	0.2382404	20	0.2499044	40	0.2406159
2,3,4,6-Tetrachlorophenol	80	0.2863892	100	0.2734016	5		10		20		40	
2,4,6-Tribromophenol	160	0.1463607	200	0.1540049								
1,2,4-Trichlorobenzene	80	0.2701269	100	0.2566116								
2,4,6-Trichlorophenol	80	0.3634656	100	0.3585351								
2,4,5-Trichlorophenol	80	0.3927812	100	0.3659207								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	50	0.372234	60	0.3810347	80	0.3883848	100	0.3863361				
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.775377	60	1.775747	80	1.749948	100	1.765164				
Aniline												
Anthracene												
Atrazine	50	0.2037446	60	0.2070152	80	0.2065077	100	0.1958784				
Benzaldehyde	50	1.191772	60	1.181127	80	1.181401	100	1.126373				
Benzidine	50	0.7965747	60	0.7408027	80	0.8281847	100	0.8271391				
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	1.732383	60	1.7423	80	1.613118	100	1.549493				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1089345	60	0.1137101	80	0.1128504	100	0.1138012				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
2,6-Dichlorophenol	50	0.2666153	60	0.2693674	80	0.2599274	100	0.2626485				
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	0.6220546	60	0.6261555	80	0.6263855	100	0.605017				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

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	0.2511436	60	0.2489871	80	0.2366564	100	0.2315693				
2,3,4,6-Tetrachlorophenol	50		60		80		100					
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1314005		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	11/4/11 15:15	11/4/11 22:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3434772	13.59259	14.95375	2.965545E-02			15	
Acenaphthene	1.298253	3.498537	9.499375	5.351999E-02			CCC (30)	
Acenaphthylene	2.012924	3.634181	9.266125	4.019884E-02			15	
Acetophenone	1.69532	4.964233	6.139125	7.460045E-02			15	
Aniline	2.29345	5.144325	5.2075	9.771714E-02			15	
Anthracene	1.104209	4.966234	11.325	3.851806E-02			15	
Atrazine	0.19571	5.427508	10.9765	6.770277E-02			15	
Benzaldehyde	1.14891	2.750797	5.016	0.0202269			15	
Benzidine	0.6865972	20.66508	12.95013	0.0359724	0.996025		0.995	
Benzo(a)anthracene	1.104055	5.53381	14.93425	5.741487E-02			15	
Benzo(a)pyrene	0.9611542	5.028277	17.4285	4.908905E-02			CCC (30)	
Benzo(b)fluoranthene	1.112206	7.771083	16.86187	4.472156E-02			15	
Benzo(g,h,i)perylene	0.7826851	4.771669	19.768	5.314759E-02			15	
Benzoic acid	0.1785498	28.22893	7.0415	0.8296019	0.9968523		0.995	
Benzo(k)fluoranthene	1.149534	6.293554	16.90488	6.628121E-02			15	
Benzyl alcohol	1.000719	2.791817	5.803	9.226691E-02			15	
1,1-Biphenyl	1.638936	3.999936	8.738625	0.0554921			15	
4-Bromophenyl-phenylether	0.2083968	4.731703	10.71075	2.877792E-02			15	
Butylbenzylphthalate	0.7952925	8.063637	14.12525	3.253015E-02			15	
Caprolactam	0.1019333	13.136	7.7595	0.2526571			15	
Carbazole	1.011749	4.692943	11.53838	2.853738E-02			15	
4-Chloro-3-methylphenol	0.2513089	7.005438	8.014	5.447183E-02			CCC (30)	
4-Chloroaniline	0.472381	4.65069	7.381	0.0520624			15	
Bis(2-chloroethoxy)methane	0.4763036	3.285344	6.9855	9.660845E-02			15	
Bis(2-chloroethyl)ether	1.595832	3.169849	5.29675	0.1013235			15	
2,2'-Oxybis-1-chloropropane	2.413811	2.337087	6.00525	6.469369E-02			15	
2-Chloronaphthalene	1.225048	3.425295	8.748125	4.014091E-02			15	
2-Chlorophenol	1.609251	2.667227	5.340625	3.106814E-02			15	
4-Chlorophenyl phenyl ether	0.550405	8.189166	10.1255	0.0328386			15	
Chrysene	1.080943	3.117716	15.01012	5.297234E-02			15	
Dibenz(a,h)anthracene	0.7873183	5.580517	19.36738	0.041396			15	
Dibenzofuran	1.739137	3.524606	9.693375	7.301924E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1314005		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	11/4/11 15:15	11/4/11 22:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.579311	6.943725	12.036	3.251667E-02			15	
1,4-Dichlorobenzene	1.599873	3.808517	5.594625	2.988372E-02			CCC (30)	
1,3-Dichlorobenzene	1.58641	2.797939	5.526	3.047539E-02			15	
1,2-Dichlorobenzene	1.519039	3.161252	5.838375	0.0330523			15	
2,6-Dichlorophenol	0.2530711	6.142598	7.380625	2.504419E-02			15	
2,4-Dichlorophenol	0.2644541	4.830969	7.084125	7.810536E-02			CCC (30)	
Diethylphthalate	1.41991	4.434664	10.07313	8.126728E-02			15	
2,4-Dimethylphenol	0.3164993	3.409328	6.864875	7.161653E-02			15	
Dimethyl phthalate	1.385845	4.631869	9.21125	8.663602E-02			15	
4,6-Dinitro-2-methylphenol	0.1007682	37.05855	10.25138	0.1104282		0.9994927	0.99	
2,4-Dinitrophenol	0.1080489	45.02391	9.569125	7.666885E-02		0.9963263	SPCC (0.05)	
2,4-Dinitrotoluene	0.3505742	21.59578	9.760875	8.729566E-02	0.9989732		0.995	
2,6-Dinitrotoluene	0.3044889	14.79164	9.288125	7.598251E-02			15	
Di-n-octylphthalate	1.855124	20.88688	16.2915	2.942614E-02	0.9951039		CCC (30)	
1,4-Dioxane	0.6094153	3.152893	2.297	0.1896706			15	
1,2-Diphenylhydrazine	0.9433606	7.226891	10.31088	3.456388E-02			15	
Bis(2-ethylhexyl)phthalate	1.110597	12.21504	15.17225	2.661934E-02			15	
Fluoranthene	1.067861	4.007124	12.74788	3.321849E-02			CCC (30)	
Fluorene	1.203765	7.757419	10.11338	6.626168E-02			15	
2-Fluorobiphenyl	1.442391	4.911924	8.640875	4.022923E-02			15	
2-Fluorophenol	1.573089	3.261129	4.013125	8.674135E-02			15	
Hexachlorobenzene	0.2505686	3.35494	10.88587	2.925016E-02			15	
Hexachlorobutadiene	0.1448658	5.96381	7.510375	3.562718E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3481283	7.115938	8.43725	2.564003E-02			SPCC (0.05)	
Hexachloroethane	0.6315411	4.028286	6.23725	3.553511E-02			15	
Indeno(1,2,3-cd)pyrene	0.7849404	4.782063	19.3265	5.600263E-02			15	
Isophorone	0.7049527	3.416961	6.67075	0.1129943			15	
1-Methylnaphthalene	0.5349792	3.921483	8.278625	4.378636E-02			15	
2-Methylnaphthalene	0.5392	4.786108	8.143	0.0355832			15	
2-Methylphenol	1.355581	3.791565	5.982125	0.0603672			15	
3-Methylphenol	1.405911	4.403487	6.1835	8.987954E-02			15	
4-Methylphenol	1.405911	4.403487	6.1835	8.987954E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314005	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/4/11 15:15 11/4/11 22:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.405911	4.403487	6.1835	8.987954E-02			15	
Naphthalene	1.121513	4.636777	7.26375	5.595974E-02			15	
4-Nitroaniline	0.3040362	17.83843	10.20737	0.1548282	0.9981183		0.995	
3-Nitroaniline	0.3653235	14.18155	9.450625	9.337966E-02			15	
2-Nitroaniline	0.2779291	18.4181	8.9345	3.806184E-02	0.9979848		0.995	
Nitrobenzene	0.312768	6.739993	6.367625	8.016057E-02			15	
Nitrobenzene-d5	0.3259665	7.252527	6.341875	7.495405E-02			15	
4-Nitrophenol	0.17017	21.00382	9.67025	8.302716E-02	0.9986064		SPCC (0.05)	
2-Nitrophenol	0.1989099	13.36668	6.784375	4.068524E-02			CCC (30)	
N-Nitrosodimethylamine	0.6377143	3.412073	2.62275	7.855476E-02			15	
N-Nitrosodiphenylamine	0.7074234	4.362165	10.28537	7.705786E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.8936003	5.170455	6.195625	0.1465548			SPCC (0.05)	
Pentachlorophenol	0.1540112	13.33264	11.10612	3.809497E-02			CCC (30)	
Phenanthrene	1.097917	4.19042	11.2735	2.334914E-02			15	
Phenol	2.00287	4.093006	5.21	0.2093801			CCC (30)	
Phenol-d6	1.947798	4.535952	5.194125	0.1803891			15	
Pyrene	1.44321	6.120514	13.05038	0.0337791			15	
Pyridine	1.63876	3.714295	2.61525	0.2383931			15	
Terphenyl-d14	0.9256836	6.14577	13.30362	3.419358E-02			15	
1,2,4,5-Tetrachlorobenzene	0.2422115	2.919289	8.40375	2.295666E-02			15	
2,3,4,6-Tetrachlorophenol	0.2843803	5.019947	9.90325	4.744873E-02			15	
2,4,6-Tribromophenol	0.1504897	5.917005	10.43875	4.803125E-02			15	
1,2,4-Trichlorobenzene	0.2750128	3.556766	7.192875	6.311396E-02			15	
2,4,6-Trichlorophenol	0.3642009	4.771139	8.543375	4.117461E-02			CCC (30)	
2,4,5-Trichlorophenol	0.3748305	6.727515	8.5825	4.122785E-02			15	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

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	1.375555	10	1.247681	20	1.315754	40	1.225725	50	1.261709	60	1.176871
Acenaphthylene	5	2.145667	10	2.102139	20	2.169055	40	2.012251	50	2.057351	60	1.960757
Acetophenone												
Aniline	5	2.038928	10	2.002103	20	1.989068	40	1.720014	50	1.781602	60	1.650175
Anthracene	5	1.169783	10	1.124595	20	1.117575	40	1.04507	50	0.9920434	60	1.005004
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.206808	10	1.229534	20	1.237744	40	1.191237	50	1.216966	60	1.195759
Benzo(a)pyrene	5	1.016538	10	1.083834	20	1.116761	40	1.063178	50	1.140848	60	1.089689
Benzo(b)fluoranthene	5	1.183498	10	1.273734	20	1.276442	40	1.243572	50	1.255279	60	1.298359
Benzo(g,h,i)perylene	5	0.7756896	10	0.7930589	20	0.8690167	40	0.7505312	50	0.8057713	60	0.7568796
Benzoic acid	5	7.223997E-02	10	0.1090593	20	0.1667993	40	0.2050271	50	0.2135718	60	0.2273622
Benzo(k)fluoranthene	5	1.371682	10	1.303044	20	1.277055	40	1.298434	50	1.307656	60	1.196975
Benzyl alcohol	5	0.9544969	10	0.9587215	20	0.9749171	40	0.8777122	50	0.9221017	60	0.8462092
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2449424	10	0.258387	20	0.2524239	40	0.2319656	50	0.2224011	60	0.2345428
Butylbenzylphthalate	5	0.6997631	10	0.7107028	20	0.7328562	40	0.7545791	50	0.7394636	60	0.7065071
Caprolactam												
Carbazole	5	1.029252	10	1.019597	20	1.027541	40	0.961032	50	0.9269296	60	0.8804328
4-Chloro-3-methylphenol	5	0.3118936	10	0.3034895	20	0.3219077	40	0.3062898	50	0.3104654	60	0.294544
4-Chloroaniline	5	0.5200419	10	0.5268267	20	0.5358167	40	0.5006113	50	0.4879559	60	0.4751696
Bis(2-chloroethoxy)methane	5	0.4325357	10	0.4261443	20	0.4330646	40	0.3993229	50	0.3955051	60	0.3932113
Bis(2-chloroethyl)ether	5	1.327547	10	1.474999	20	1.423808	40	1.258757	50	1.338232	60	1.249641
2,2'-Oxybis-1-chloropropane	5	1.610303	10	1.547667	20	1.55458	40	1.39838	50	1.393016	60	1.325389
2-Chloronaphthalene	5	1.294376	10	1.231213	20	1.235283	40	1.162279	50	1.224045	60	1.141754
2-Chlorophenol	5	1.671636	10	1.691785	20	1.762926	40	1.666063	50	1.721327	60	1.649937
4-Chlorophenyl phenyl ether	5	0.8071924	10	0.7768704	20	0.7482329	40	0.7335273	50	0.7870887	60	0.6944309
Chrysene	5	1.185918	10	1.189008	20	1.216903	40	1.11949	50	1.115237	60	1.090678
Dibenz(a,h)anthracene	5	0.6989004	10	0.7897943	20	0.9164756	40	0.8180642	50	0.8753817	60	0.7947975
Dibenzofuran	5	1.809079	10	1.793231	20	1.771305	40	1.681558	50	1.72124	60	1.594221

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1339003
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 11/30/11 13:15 11/30/11 20:56

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	1.403346	10	1.402537	20	1.469585	40	1.434439	50	1.360129	60	1.333623
1,4-Dichlorobenzene	5	1.652413	10	1.624942	20	1.658616	40	1.518542	50	1.530718	60	1.462132
1,3-Dichlorobenzene	5	1.668558	10	1.563241	20	1.665246	40	1.508791	50	1.548782	60	1.472939
1,2-Dichlorobenzene	5	1.628123	10	1.481569	20	1.557431	40	1.423931	50	1.464862	60	1.348681
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2789292	10	0.2761339	20	0.2853419	40	0.2689463	50	0.2694449	60	0.2620424
Diethylphthalate	5	1.592741	10	1.523248	20	1.551974	40	1.599869	50	1.634821	60	1.506786
2,4-Dimethylphenol	5	0.3937579	10	0.4051167	20	0.3791056	40	0.3650056	50	0.3639289	60	0.3645451
Dimethyl phthalate	5	1.51359	10	1.546388	20	1.582557	40	1.459096	50	1.480029	60	1.394387
4,6-Dinitro-2-methylphenol	5	8.544765E-02	10	0.1089446	20	0.1420205	40	0.1673422	50	0.1688533	60	0.1730761
2,4-Dinitrophenol	5	6.631966E-02	10	8.884429E-02	20	0.1319692	40	0.204973	50	0.2228808	60	0.2220781
2,4-Dinitrotoluene	5	0.4535326	10	0.434045	20	0.4832556	40	0.4822928	50	0.571593	60	0.5102514
2,6-Dinitrotoluene	5	0.3656062	10	0.3528607	20	0.3827143	40	0.37424	50	0.3909156	60	0.3701093
Di-n-octylphthalate	5	1.616801	10	1.708015	20	1.740395	40	1.828607	50	1.846822	60	1.807411
1,4-Dioxane												
1,2-Diphenylhydrazine	5	1.028703	10	1.003748	20	1.097528	40	1.005532	50	0.9866839	60	0.9735893
Bis(2-ethylhexyl)phthalate	5	0.9459735	10	0.9671348	20	0.9788487	40	0.9775047	50	1.002339	60	0.9502329
Fluoranthene	5	1.284435	10	1.183158	20	1.223974	40	1.144405	50	1.07551	60	1.032885
Fluorene	5	1.53768	10	1.4312	20	1.411833	40	1.332797	50	1.413296	60	1.277686
2-Fluorobiphenyl	5	1.565149	10	1.605912	20	1.519602	40	1.422075	50	1.476932	60	1.263059
2-Fluorophenol	10	1.615464	20	1.619243	40	1.631338	80	1.457694	100	1.498174	120	1.399816
Hexachlorobenzene	5	0.3236496	10	0.2944159	20	0.3094782	40	0.2891328	50	0.2790788	60	0.2753789
Hexachlorobutadiene	5	0.2217381	10	0.2090374	20	0.2259548	40	0.2157471	50	0.2082426	60	0.2076307
Hexachlorocyclopentadiene	5	0.3574699	10	0.3909394	20	0.4288717	40	0.4515476	50	0.4664008	60	0.4488864
Hexachloroethane	5	0.7687991	10	0.7016741	20	0.7168622	40	0.6721136	50	0.6991947	60	0.634264
Indeno(1,2,3-cd)pyrene	5	0.7136406	10	0.773274	20	0.8225789	40	0.7292808	50	0.7941741	60	0.7839002
Isophorone	5	0.7775367	10	0.7317609	20	0.72656	40	0.688879	50	0.6868465	60	0.6873853
1-Methylnaphthalene	5	0.6277238	10	0.6007488	20	0.5901215	40	0.5605235	50	0.5415885	60	0.5294104
2-Methylnaphthalene	5	0.6127208	10	0.6200965	20	0.603991	40	0.5751487	50	0.5687397	60	0.5487356
2-Methylphenol	5	1.313747	10	1.312602	20	1.278305	40	1.161986	50	1.158203	60	1.066158

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

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	1.367522	10	1.290549	20	1.340301	40	1.153541	50	1.168173	60	1.080635
4-Methylphenol	5	1.367522	10	1.290549	20	1.340301	40	1.153541	50	1.168173	60	1.080635
3-Methylphenol/4-Methylphenol	5	1.367522	10	1.290549	20	1.340301	40	1.153541	50	1.168173	60	1.080635
Naphthalene	5	1.199864	10	1.181479	20	1.178419	40	1.092689	50	1.091388	60	1.041687
4-Nitroaniline	5	0.3692442	10	0.3634545	20	0.3706248	40	0.3947368	50	0.4178383	60	0.3803677
3-Nitroaniline	5	0.4156286	10	0.3924432	20	0.4274887	40	0.4314081	50	0.4531696	60	0.4201365
2-Nitroaniline	5	0.3332575	10	0.3794925	20	0.4076597	40	0.4056634	50	0.4324908	60	0.4182705
Nitrobenzene	5	0.4100884	10	0.4042446	20	0.4142637	40	0.3944335	50	0.3952948	60	0.352364
Nitrobenzene-d5	5	0.4075822	10	0.3939838	20	0.4149417	40	0.3915127	50	0.390962	60	0.4010217
4-Nitrophenol	5	0.2057679	10	0.2203829	20	0.2484662	40	0.2810374	50	0.3017516	60	0.2717125
2-Nitrophenol	5	0.2223046	10	0.2210731	20	0.2380373	40	0.2343718	50	0.2392137	60	0.2336634
N-Nitrosodimethylamine	5	0.7076955	10	0.7236665	20	0.7451871	40	0.7084655	50	0.7238717	60	0.7116636
N-Nitrosodiphenylamine	5	0.7030085	10	0.6963414	20	0.6993987	40	0.6377208	50	0.5898602	60	0.5900302
N-Nitroso-di-n-propylamine	5	1.070715	10	1.018179	20	1.048748	40	0.9532285	50	0.9731783	60	0.9065608
Pentachlorophenol	5	0.1010021	10	0.1259185	20	0.1497385	40	0.1722502	50	0.1743009	60	0.1807005
Phenanthrene	5	1.193449	10	1.072202	20	1.108682	40	1.020959	50	1.026984	60	1.004463
Phenol	5	1.857942	10	1.776736	20	1.877833	40	1.571024	50	1.661938	60	1.532276
Phenol-d6	10	1.813224	20	1.718199	40	1.70982	80	1.482996	100	1.528376	120	1.412026
Pyrene	5	1.644673	10	1.688126	20	1.553811	40	1.534925	50	1.529849	60	1.489395
Pyridine	5	1.563752	10	1.36712	20	1.603841	40	1.489136	50	1.507073	60	1.450386
Terphenyl-d14	5	1.016858	10	1.033498	20	1.019229	40	1.008747	50	1.008677	60	0.9927744
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3934074	10	0.4277599	20	0.4187954	40	0.4311638	50	0.452169	60	0.4193833
2,4,6-Tribromophenol	10	0.1914296	20	0.18718	40	0.1871822	80	0.1732202	100	0.1731249	120	0.1720343
1,2,4-Trichlorobenzene	5	0.3471753	10	0.3352755	20	0.3393009	40	0.3156153	50	0.3153726	60	0.3052603
2,4,6-Trichlorophenol	5	0.4595673	10	0.4734188	20	0.4889955	40	0.481326	50	0.4823509	60	0.455419
2,4,5-Trichlorophenol	5	0.4986142	10	0.4510282	20	0.5157088	40	0.4758505	50	0.5123622	60	0.5208317

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

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	1.12226	100	1.058587								
Acenaphthylene	80	1.819152	100	1.807143								
Acetophenone					5	1.7913	10	1.814829	20	1.746252	40	1.688373
Aniline	80	1.568434	100	1.54344								
Anthracene	80	0.9574698	100	0.8691373								
Atrazine					5	0.2471356	10	0.2364306	20	0.2330065	40	0.2170673
Benzaldehyde					5	1.104306	10	1.131279	20	1.116693	40	1.024075
Benzidine					5	0.5291976	10	0.5643232	20	0.6565832	40	0.6224577
Benzo(a)anthracene	80	1.075938	100	1.040087								
Benzo(a)pyrene	80	1.024545	100	0.9876659								
Benzo(b)fluoranthene	80	1.262435	100	1.193907								
Benzo(g,h,i)perylene	80	0.7388674	100	0.6612838								
Benzoic acid	80	0.2341339	100	0.2425468								
Benzo(k)fluoranthene	80	1.105468	100	1.122267								
Benzyl alcohol	80	0.8097086	100	0.7746465								
1,1-Biphenyl					5	1.688711	10	1.617648	20	1.585253	40	1.476907
4-Bromophenyl-phenylether	80	0.2185961	100	0.2029255								
Butylbenzylphthalate	80	0.6611929	100	0.6514392								
Caprolactam					5	0.107489	10	0.1152662	20	0.1168941	40	0.1294507
Carbazole	80	0.901177	100	0.7925815								
4-Chloro-3-methylphenol	80	0.2802317	100	0.2727544								
4-Chloroaniline	80	0.447762	100	0.4246796								
Bis(2-chloroethoxy)methane	80	0.3568203	100	0.3389271								
Bis(2-chloroethyl)ether	80	1.17977	100	1.136868								
2,2'-Oxybis-1-chloropropane	80	1.262642	100	1.177303								
2-Chloronaphthalene	80	1.041222	100	1.029924								
2-Chlorophenol	80	1.551786	100	1.555761								
4-Chlorophenyl phenyl ether	80	0.6453259	100	0.6397207								
Chrysene	80	1.017718	100	1.004927								
Dibenz(a,h)anthracene	80	0.7971418	100	0.7353488								
Dibenzofuran	80	1.477517	100	1.441629								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1339003	Instrument:	MS-BNA1	
Matrix:	Water	Calibration Dates:	11/30/11 13:15	11/30/11 20:56

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	1.292972	100	1.163987								
1,4-Dichlorobenzene	80	1.36903	100	1.349713								
1,3-Dichlorobenzene	80	1.430352	100	1.38453								
1,2-Dichlorobenzene	80	1.313341	100	1.233339								
3,3'-Dichlorobenzidine					5	0.3220309	10	0.3385584	20	0.3733963	40	0.3808522
2,6-Dichlorophenol					5	0.2731235	10	0.2712764	20	0.2828199	40	0.2573947
2,4-Dichlorophenol	80	0.2465686	100	0.2358162								
Diethylphthalate	80	1.428038	100	1.379594								
2,4-Dimethylphenol	80	0.3404946	100	0.3314528								
Dimethyl phthalate	80	1.342544	100	1.240673								
4,6-Dinitro-2-methylphenol	80	0.1713895	100	0.1661378								
2,4-Dinitrophenol	80	0.2285063	100	0.2344167								
2,4-Dinitrotoluene	80	0.4624957	100	0.4640947								
2,6-Dinitrotoluene	80	0.3444989	100	0.3351901								
Di-n-octylphthalate	80	1.757176	100	1.826644								
1,4-Dioxane					5	0.6033912	10	0.5408211	20	0.5493112	40	0.5028836
1,2-Diphenylhydrazine	80	0.9019627	100	0.8711921								
Bis(2-ethylhexyl)phthalate	80	0.8668273	100	0.8691624								
Fluoranthene	80	1.029556	100	0.9347343								
Fluorene	80	1.133295	100	1.116955								
2-Fluorobiphenyl	80	1.302183	100	1.227577								
2-Fluorophenol	160	1.30963	200	1.250153								
Hexachlorobenzene	80	0.2592465	100	0.2368549								
Hexachlorobutadiene	80	0.1910196	100	0.1832582								
Hexachlorocyclopentadiene	80	0.4329448	100	0.4258618								
Hexachloroethane	80	0.6199054	100	0.5634503								
Indeno(1,2,3-cd)pyrene	80	0.7692849	100	0.6930112								
Isophorone	80	0.6464376	100	0.6444657								
1-Methylnaphthalene	80	0.4874856	100	0.4684354								
2-Methylnaphthalene	80	0.5104216	100	0.4817791								
2-Methylphenol	80	1.011481	100	0.9799248								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

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	1.033667	100	0.9266368								
4-Methylphenol	80	1.033667	100	0.9266368								
3-Methylphenol/4-Methylphenol	80	1.033667	100	0.9266368								
Naphthalene	80	0.9819996	100	0.9404951								
4-Nitroaniline	80	0.3881252	100	0.3832878								
3-Nitroaniline	80	0.4139299	100	0.3977326								
2-Nitroaniline	80	0.4356351	100	0.4017542								
Nitrobenzene	80	0.3750456	100	0.3590628								
Nitrobenzene-d5	80	0.3689605	100	0.3609736								
4-Nitrophenol	80	0.2775587	100	0.277709								
2-Nitrophenol	80	0.2213909	100	0.2135818								
N-Nitrosodimethylamine	80	0.7183053	100	0.706173								
N-Nitrosodiphenylamine	80	0.5521674	100	0.5058761								
N-Nitroso-di-n-propylamine	80	0.8762967	100	0.8446054								
Pentachlorophenol	80	0.1757436	100	0.1728811								
Phenanthrene	80	0.9254282	100	0.8409229								
Phenol	80	1.408901	100	1.386721								
Phenol-d6	160	1.285692	200	1.276621								
Pyrene	80	1.315983	100	1.286901								
Pyridine	80	1.408137	100	1.350074								
Terphenyl-d14	80	0.8585279	100	0.8600825								
1,2,4,5-Tetrachlorobenzene					5	0.3310526	10	0.3444954	20	0.3266984	40	0.3238688
2,3,4,6-Tetrachlorophenol	80	0.4235259	100	0.3962841	5		10		20		40	
2,4,6-Tribromophenol	160	0.1659524	200	0.1555679								
1,2,4-Trichlorobenzene	80	0.2872044	100	0.2785286								
2,4,6-Trichlorophenol	80	0.4325376	100	0.417233								
2,4,5-Trichlorophenol	80	0.4506406	100	0.4639872								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1339003		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	11/30/11 13:15	11/30/11 20:56

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	1.711253	60	1.731778	80	1.914449	100	1.921156				
Aniline												
Anthracene												
Atrazine	50	0.2291889	60	0.2136104	80	0.2247401	100	0.2291399				
Benzaldehyde	50	1.046152	60	0.7953874	80	0.7988301	100	~~0.6823468~~				
Benzidine	50	0.624929	60	0.6035355	80	0.4752681	100	~~0.4094918~~				
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	1.196755	60	1.621997	80	1.301759	100	1.289324				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1638672	60	0.1218578	80	0.1282587	100	0.1222227				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1339003	Instrument:	MS-BNA1	
Matrix:	Water	Calibration Dates:	11/30/11 13:15	11/30/11 20:56

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	0.4028969	60	0.413571	80	0.3979825	100	0.3837149				
2,6-Dichlorophenol	50	0.3098875	60	0.2521167	80	0.2559155	100	0.2458684				
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	0.5689554	60	0.5442247	80	0.6156329	100	0.5417458				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

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	0.3734565	60	0.2991032	80	0.2903595	100	0.2877238				
2,3,4,6-Tetrachlorophenol	50		60		80		100					
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1339003	Instrument:	MS-BNA1		
Matrix:	Water	Calibration Dates:	11/30/11 13:15	11/30/11 20:56	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.223018	8.366979	9.181875	8.235406E-02			CCC (30)	
Acenaphthylene	2.009189	6.897399	8.95225	3.940849E-02			15	
Acetophenone	1.789924	4.958515	5.8215	1.309141E-02			15	
Aniline	1.786721	11.21162	4.879	0.1185123			15	
Anthracene	1.035085	9.618168	11.00162	6.692002E-02			15	
Atrazine	0.2287899	4.664547	10.67363	8.489735E-02			15	
Benzaldehyde	1.002389	14.49903	4.677286	8.583372E-02			15	
Benzidine	0.5823277	10.86029	12.59429	2.842732E-02			15	
Benzo(a)anthracene	1.174259	6.306517	14.4875	4.802162E-02			15	
Benzo(a)pyrene	1.065382	4.93681	16.90963	0.0584467			CCC (30)	
Benzo(b)fluoranthene	1.248403	3.2288	16.36063	6.509969E-02			15	
Benzo(g,h,i)perylene	0.7688873	7.768986	19.17475	6.277245E-02			15	
Benzoic acid	0.1838425	34.11835	6.767125	0.86366	0.9980247		0.995	
Benzo(k)fluoranthene	1.247823	7.66288	16.40375	7.721931E-02			15	
Benzyl alcohol	0.8898142	8.382624	5.486375	0.1589559			15	
1,1-Biphenyl	1.472294	12.61941	8.432	4.533547E-02			15	
4-Bromophenyl-phenylether	0.2332731	7.923658	10.39875	4.458491E-02			15	
Butylbenzylphthalate	0.707063	5.1378	13.72975	4.310773E-02			15	
Caprolactam	0.1256633	13.52568	7.459125	0.306622			15	
Carbazole	0.9423179	8.907957	11.21962	0.0586962			15	
4-Chloro-3-methylphenol	0.300197	5.553041	7.726625	0.055464			CCC (30)	
4-Chloroaniline	0.489858	7.998143	7.074375	4.402337E-02			15	
Bis(2-chloroethoxy)methane	0.3969414	8.738226	6.68775	0.1114948			15	
Bis(2-chloroethyl)ether	1.298703	8.897429	4.974	0.1228939			15	
2,2'-Oxybis-1-chloropropane	1.40866	10.84627	5.69425	0.1110455			15	
2-Chloronaphthalene	1.170012	8.137974	8.43175	6.304423E-02			15	
2-Chlorophenol	1.658903	4.453362	5.014125	0.1214828			15	
4-Chlorophenyl phenyl ether	0.7290486	8.727202	9.814875	7.329058E-02			15	
Chrysene	1.117485	7.01632	14.55887	5.268786E-02			15	
Dibenz(a,h)anthracene	0.803238	8.680561	18.81875	4.823662E-02			15	
Dibenzofuran	1.661223	8.570054	9.37575	7.262123E-02			15	
Di-n-butylphthalate	1.357577	7.087232	11.73362	3.279027E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.520763	7.976854	5.2625	3.157809E-02			CCC (30)	
1,3-Dichlorobenzene	1.530305	6.707117	5.19425	2.479029E-02			15	
1,2-Dichlorobenzene	1.43141	9.081372	5.515625	0.032784			15	
3,3'-Dichlorobenzidine	0.3766254	8.408034	14.51388	2.977303E-02			15	
2,6-Dichlorophenol	0.2685503	7.720785	7.074125	8.647018E-03			15	
2,4-Dichlorophenol	0.2654029	6.314426	6.781625	4.513154E-02			CCC (30)	
Diethylphthalate	1.527134	5.742064	9.7745	7.488269E-02			15	
2,4-Dimethylphenol	0.3679259	6.731739	6.570875	0.1102633			15	
Dimethyl phthalate	1.444908	7.853618	8.9105	0.1147256			15	
4,6-Dinitro-2-methylphenol	0.1479015	22.55181	9.94525	0.1102701	0.9981306		0.995	
2,4-Dinitrophenol	0.1749985	39.16743	9.26475	8.987853E-02	0.9976758		SPCC (0.05)	
2,4-Dinitrotoluene	0.4826951	8.801311	9.456375	0.1086129			15	
2,6-Dinitrotoluene	0.3645169	5.237783	8.985125	6.872784E-02			15	
Di-n-octylphthalate	1.766484	4.39532	15.84263	2.798908E-02			CCC (30)	
1,4-Dioxane	0.5583707	6.550002	2.029875	0.2644654			15	
1,2-Diphenylhydrazine	0.9836174	7.22069	10.0005	7.212815E-02			15	
Bis(2-ethylhexyl)phthalate	0.9447529	5.348056	14.75013	3.304377E-02			15	
Fluoranthene	1.113582	10.41598	12.39175	5.536677E-02			CCC (30)	
Fluorene	1.331843	11.12971	9.79525	7.191827E-02			15	
2-Fluorobiphenyl	1.422811	10.0901	8.3315	0.0595527			15	
2-Fluorophenol	1.472689	9.917679	3.709875	0.1363094			15	
Hexachlorobenzene	0.2834044	9.697405	10.56113	4.528503E-02			15	
Hexachlorobutadiene	0.2078286	6.97905	7.201	5.041278E-02			CCC (30)	
Hexachlorocyclopentadiene	0.4253653	8.329594	8.125125	0.0449411			SPCC (0.05)	
Hexachloroethane	0.6720329	9.565053	5.911	5.855926E-02			15	
Indeno(1,2,3-cd)pyrene	0.7598931	5.7787	18.77488	4.715629E-02			15	
Isophorone	0.698734	6.428192	6.358875	0.1451213			15	
1-Methylnaphthalene	0.5507547	10.03637	7.963125	6.835768E-02			15	
2-Methylnaphthalene	0.5652041	8.749507	7.830125	3.581031E-02			15	
2-Methylphenol	1.160301	11.48088	5.681125	3.180342E-02			15	
3-Methylphenol	1.170128	13.26401	5.886625	0.1649128			15	
4-Methylphenol	1.170128	13.26401	5.886625	0.1649128			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339003	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	11/30/11 13:15 11/30/11 20:56

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.170128	13.26401	5.886625	0.1649128			15	
Naphthalene	1.088503	8.825305	6.9475	4.718844E-02			15	
4-Nitroaniline	0.3834599	4.5249	9.902625	0.1593584			15	
3-Nitroaniline	0.4189922	4.590432	9.146	0.1171304			15	
2-Nitroaniline	0.401778	8.202694	8.627625	8.738376E-02			15	
Nitrobenzene	0.3880997	6.01227	6.04875	0.1454208			15	
Nitrobenzene-d5	0.3912423	4.67782	6.025625	0.1132374			15	
4-Nitrophenol	0.2605483	12.63494	9.385625	7.168411E-02			SPCC (0.05)	
2-Nitrophenol	0.2279546	4.16546	6.4695	3.911377E-02			CCC (30)	
N-Nitrosodimethylamine	0.7181285	1.810142	2.34875	0.144435			15	
N-Nitrosodiphenylamine	0.6218004	11.96452	9.979625	7.148376E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.961439	8.51361	5.885375	0.1816638			SPCC (0.05)	
Pentachlorophenol	0.1565669	18.46444	10.79087	5.750484E-02	0.9985384		CCC (30)	
Phenanthrene	1.024136	10.55791	10.94788	4.157204E-02			15	
Phenol	1.634171	11.72266	4.903125	0.2458738			CCC (30)	
Phenol-d6	1.528369	13.27069	4.889	0.2580271			15	
Pyrene	1.505458	9.409853	12.67787	3.718104E-02			15	
Pyridine	1.46744	6.17995	2.336375	0.2615612			15	
Terphenyl-d14	0.9747992	7.406748	12.93425	4.151649E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3220948	9.060355	8.093	3.121556E-02			15	
2,3,4,6-Tetrachlorophenol	0.4203111	4.498753	9.5955	3.820005E-02			15	
2,4,6-Tribromophenol	0.1757114	6.928891	10.12325	7.822694E-02			15	
1,2,4-Trichlorobenzene	0.3154666	7.795358	6.87925	4.304335E-02			15	
2,4,6-Trichlorophenol	0.461356	5.535121	8.2375	0.0485335			CCC (30)	
2,4,5-Trichlorophenol	0.4861279	6.027859	8.2825	5.785111E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-ICV1.D	Calibration Date:	11/04/11 00:00
Sequence:	1K31411	Injection Date:	11/04/11
Lab Sample ID:	1K31411-ICV1	Injection Time:	23:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	53.32	1.298253	1.384386		6.6	20
Acenaphthylene	A	50.00	54.67	2.012924	2.200794		9.3	20
Anthracene	A	50.00	57.81	1.104209	1.276743		15.6	20
Benzo(a)anthracene	A	50.00	57.87	1.104055	1.277831		15.7	20
Benzo(a)pyrene	A	50.00	54.67	0.9611542	1.050965		9.3	20
Benzo(b)fluoranthene	A	50.00	58.98	1.112206	1.311871		18.0	20
Benzo(g,h,i)perylene	A	50.00	46.10	0.7826851	0.7215771		-7.8	20
Benzoic acid	L	50.00	51.04	0.1785498	0.2156447		2.1	20
Benzo(k)fluoranthene	A	50.00	52.86	1.149534	1.215192		5.7	20
4-Bromophenyl-phenylether	A	50.00	55.35	0.2083968	0.2306981		10.7	20
Butylbenzylphthalate	A	50.00	57.50	0.7952925	0.9145375		15.0	20
Carbazole	A	50.00	53.59	1.011749	1.084389		7.2	20
4-Chloro-3-methylphenol	A	50.00	56.15	0.2513089	0.2822166		12.3	20
4-Chloroaniline	A	50.00	53.74	0.472381	0.5076895		7.5	20
Bis(2-chloroethoxy)methane	A	50.00	54.76	0.4763036	0.5216113		9.5	20
Bis(2-chloroethyl)ether	A	50.00	53.74	1.595832	1.715059		7.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	56.64	2.413811	2.734194		13.3	20
2-Chloronaphthalene	A	50.00	53.95	1.225048	1.321709		7.9	20
2-Chlorophenol	A	50.00	53.96	1.609251	1.736721		7.9	20
4-Chlorophenyl phenyl ether	A	50.00	52.96	0.550405	0.5829702		5.9	20
Chrysene	A	50.00	55.07	1.080943	1.19052		10.1	20
Dibenz(a,h)anthracene	A	50.00	49.78	0.7873183	0.7838465		-0.4	20
Dibenzofuran	A	50.00	55.32	1.739137	1.924062		10.6	20
Di-n-butylphthalate	A	50.00	54.27	1.579311	1.714141		8.5	20
2,4-Dichlorophenol	A	50.00	54.30	0.2644541	0.2871803		8.6	20
Diethylphthalate	A	50.00	55.45	1.41991	1.574686		10.9	20
2,4-Dimethylphenol	A	50.00	55.57	0.3164993	0.3517447		11.1	20
Dimethyl phthalate	A	50.00	52.61	1.385845	1.458173		5.2	20
4,6-Dinitro-2-methylphenol	Q	50.00	54.05	0.1007682	0.1369132		8.1	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-ICV1.D	Calibration Date:	11/04/11 00:00
Sequence:	1K31411	Injection Date:	11/04/11
Lab Sample ID:	1K31411-ICV1	Injection Time:	23:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	Q	50.00	51.85	0.1080489	0.1362959	0.05	3.7	20
2,4-Dinitrotoluene	L	50.00	53.65	0.3505742	0.4276614		7.3	20
2,6-Dinitrotoluene	A	50.00	58.59	0.3044889	0.3567932		17.2	20
Di-n-octylphthalate	L	50.00	56.69	1.855124	2.425126		13.4	20
1,2-Diphenylhydrazine	A	50.00	58.53	0.9433606	1.104297		17.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	57.96	1.110597	1.287416		15.9	20
Fluoranthene	A	50.00	56.32	1.067861	1.202856		12.6	20
Fluorene	A	50.00	55.38	1.203765	1.333323		10.8	20
Hexachlorobenzene	A	50.00	55.34	0.2505686	0.2773499		10.7	20
Hexachlorobutadiene	A	50.00	58.69	0.1448658	0.1700435		17.4	20
Hexachlorocyclopentadiene	A	50.00	48.87	0.3481283	0.3402276	0.05	-2.3	20
Hexachloroethane	A	50.00	53.92	0.6315411	0.6810693		7.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	49.31	0.7849404	0.7740882		-1.4	20
Isophorone	A	50.00	53.88	0.7049527	0.7596741		7.8	20
1-Methylnaphthalene	A	50.00	53.11	0.5349792	0.5682525		6.2	20
2-Methylnaphthalene	A	50.00	53.35	0.5392	0.5753753		6.7	20
2-Methylphenol	A	50.00	56.64	1.355581	1.535536		13.3	20
3-Methylphenol/4-Methylphenol	A	50.00	55.43	1.405911	1.558458		10.9	20
Naphthalene	A	50.00	59.26	1.121513	1.329256		18.5	20
4-Nitroaniline	L	50.00	51.31	0.3040362	0.3481516		2.6	20
3-Nitroaniline	A	50.00	58.77	0.3653235	0.4294313		17.5	20
2-Nitroaniline	L	50.00	52.72	0.2779291	0.3262295		5.4	20
Nitrobenzene	A	50.00	53.12	0.312768	0.3322664		6.2	20
4-Nitrophenol	L	50.00	50.63	0.17017	0.1942837	0.05	1.3	20
2-Nitrophenol	A	50.00	54.69	0.1989099	0.2175844		9.4	20
N-Nitrosodiphenylamine	A	50.00	58.02	0.7074234	0.8208261		16.0	20
N-Nitroso-di-n-propylamine	A	50.00	54.69	0.8936003	0.9774761	0.05	9.4	20
Phenanthrene	A	50.00	58.66	1.097917	1.28801		17.3	20
Phenol	A	50.00	54.57	2.00287	2.18607		9.1	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-ICV1.D	Calibration Date:	11/04/11 00:00
Sequence:	1K31411	Injection Date:	11/04/11
Lab Sample ID:	1K31411-ICV1	Injection Time:	23:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pyrene	A	50.00	54.41	1.44321	1.570416		8.8	20
2,4,6-Trichlorophenol	A	50.00	53.97	0.3642009	0.3931381		7.9	20
2,4,5-Trichlorophenol	A	50.00	54.12	0.3748305	0.4056865		8.2	20
2-Fluorobiphenyl	A	50.00	52.09	1.442391	1.502674		4.2	20
2-Fluorophenol	A	100.0	107.1	1.573089	1.684638		7.1	20
Nitrobenzene-d5	A	50.00	53.38	0.3259665	0.347985		6.8	20
Phenol-d6	A	100.0	101.2	1.947798	1.970675		1.2	20
Terphenyl-d14	A	50.00	53.08	0.9256836	0.9827773		6.2	20
2,4,6-Tribromophenol	A	100.0	100.6	0.1504897	0.1513921		0.6	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-ICV2.D	Calibration Date:	11/04/11 00:00
Sequence:	1K31411	Injection Date:	11/04/11
Lab Sample ID:	1K31411-ICV2	Injection Time:	23:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	64.57	0.3434772	0.4435739		29.1	20 *
Acetophenone	A	50.00	51.11	1.69532	1.733089		2.2	20
Atrazine	A	50.00	51.01	0.19571	0.1996786		2.0	20
Benzaldehyde	A	50.00	51.31	1.14891	1.178999		2.6	20
Benzidine	L	50.00	56.40	0.6865972	0.888622		12.8	20
1,1-Biphenyl	A	50.00	50.08	1.638936	1.641569		0.2	20
Caprolactam	A	50.00	53.00	0.1019333	0.1080409		6.0	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-ICV3.D	Calibration Date:	11/04/11 00:00
Sequence:	1K31411	Injection Date:	11/05/11
Lab Sample ID:	1K31411-ICV3	Injection Time:	16:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	54.49	0.1540112	0.1678536		9.0	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-ICV1.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33501	Injection Date:	11/30/11
Lab Sample ID:	1L33501-ICV1	Injection Time:	21:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	54.03	1.223018	1.321556		8.1	20
Acenaphthylene	A	50.00	54.29	2.009189	2.181392		8.6	20
Anthracene	A	50.00	50.91	1.035085	1.053896		1.8	20
Benzo(a)anthracene	A	50.00	55.50	1.174259	1.303503		11.0	20
Benzo(a)pyrene	A	50.00	54.16	1.065382	1.154014		8.3	20
Benzo(b)fluoranthene	A	50.00	53.51	1.248403	1.33592		7.0	20
Benzo(g,h,i)perylene	A	50.00	54.21	0.7688873	0.8336844		8.4	20
Benzoic acid	L	50.00	53.58	0.1838425	0.2411576		7.2	20
Benzo(k)fluoranthene	A	50.00	57.04	1.247823	1.423525		14.1	20
4-Bromophenyl-phenylether	A	50.00	52.09	0.2332731	0.243036		4.2	20
Butylbenzylphthalate	A	50.00	55.52	0.707063	0.7851823		11.0	20
Carbazole	A	50.00	50.47	0.9423179	0.9511458		0.9	20
4-Chloro-3-methylphenol	A	50.00	55.28	0.300197	0.3319045		10.6	20
4-Chloroaniline	A	50.00	53.43	0.489858	0.5234557		6.9	20
Bis(2-chloroethoxy)methane	A	50.00	54.45	0.3969414	0.432259		8.9	20
Bis(2-chloroethyl)ether	A	50.00	45.50	1.298703	1.181857		-9.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.63	1.40866	1.510871		7.3	20
2-Chloronaphthalene	A	50.00	52.26	1.170012	1.223003		4.5	20
2-Chlorophenol	A	50.00	53.44	1.658903	1.772889		6.9	20
4-Chlorophenyl phenyl ether	A	50.00	53.74	0.7290486	0.783586		7.5	20
Chrysene	A	50.00	53.76	1.117485	1.201418		7.5	20
Dibenz(a,h)anthracene	A	50.00	56.53	0.803238	0.9081866		13.1	20
Dibenzofuran	A	50.00	53.36	1.661223	1.772928		6.7	20
Di-n-butylphthalate	A	50.00	50.61	1.357577	1.374212		1.2	20
2,4-Dichlorophenol	A	50.00	51.88	0.2654029	0.2753603		3.8	20
Diethylphthalate	A	50.00	54.22	1.527134	1.656138		8.4	20
2,4-Dimethylphenol	A	50.00	55.26	0.3679259	0.4066229		10.5	20
Dimethyl phthalate	A	50.00	51.81	1.444908	1.497303		3.6	20
4,6-Dinitro-2-methylphenol	L	50.00	57.50	0.1479015	0.1921286		15.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-ICV1.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33501	Injection Date:	11/30/11
Lab Sample ID:	1L33501-ICV1	Injection Time:	21:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	58.06	0.1749985	0.2576662	0.05	16.1	20
2,4-Dinitrotoluene	A	50.00	54.72	0.4826951	0.5283058		9.4	20
2,6-Dinitrotoluene	A	50.00	57.56	0.3645169	0.4196389		15.1	20
Di-n-octylphthalate	A	50.00	56.77	1.766484	2.005497		13.5	20
1,2-Diphenylhydrazine	A	50.00	51.69	0.9836174	1.016841		3.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.37	0.9447529	1.065104		12.7	20
Fluoranthene	A	50.00	51.68	1.113582	1.150988		3.4	20
Fluorene	A	50.00	54.47	1.331843	1.45095		8.9	20
Hexachlorobenzene	A	50.00	50.88	0.2834044	0.2883957		1.8	20
Hexachlorobutadiene	A	50.00	57.90	0.2078286	0.240684		15.8	20
Hexachlorocyclopentadiene	A	50.00	52.31	0.4253653	0.4449854	0.05	4.6	20
Hexachloroethane	A	50.00	53.33	0.6720329	0.7167309		6.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.52	0.7598931	0.8285463		9.0	20
Isophorone	A	50.00	55.90	0.698734	0.7811267		11.8	20
1-Methylnaphthalene	A	50.00	51.80	0.5507547	0.570591		3.6	20
2-Methylnaphthalene	A	50.00	51.48	0.5652041	0.5819419		3.0	20
2-Methylphenol	A	50.00	53.41	1.160301	1.239437		6.8	20
3-Methylphenol/4-Methylphenol	A	50.00	52.79	1.170128	1.235466		5.6	20
Naphthalene	A	50.00	58.36	1.088503	1.270536		16.7	20
4-Nitroaniline	A	50.00	52.95	0.3834599	0.4061074		5.9	20
3-Nitroaniline	A	50.00	55.73	0.4189922	0.4670447		11.5	20
2-Nitroaniline	A	50.00	55.94	0.401778	0.4495289		11.9	20
Nitrobenzene	A	50.00	53.72	0.3880997	0.4170049		7.4	20
4-Nitrophenol	A	50.00	58.85	0.2605483	0.3066811	0.05	17.7	20
2-Nitrophenol	A	50.00	55.08	0.2279546	0.2510947		10.2	20
N-Nitrosodiphenylamine	A	50.00	53.35	0.6218004	0.6634354		6.7	20
N-Nitroso-di-n-propylamine	A	50.00	53.87	0.961439	1.03583	0.05	7.7	20
Phenanthrene	A	50.00	50.55	1.024136	1.035316		1.1	20
Phenol	A	50.00	48.63	1.634171	1.589454		-2.7	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-ICV1.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33501	Injection Date:	11/30/11
Lab Sample ID:	1L33501-ICV1	Injection Time:	21:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pyrene	A	50.00	52.06	1.505458	1.567499		4.1	20
2,4,6-Trichlorophenol	A	50.00	54.23	0.461356	0.5004042		8.5	20
2,4,5-Trichlorophenol	A	50.00	55.32	0.4861279	0.5378785		10.6	20
2-Fluorobiphenyl	A	50.00	51.60	1.422811	1.468462		3.2	20
2-Fluorophenol	A	100.0	102.8	1.472689	1.51385		2.8	20
Nitrobenzene-d5	A	50.00	51.17	0.3912423	0.4003772		2.3	20
Phenol-d6	A	100.0	95.01	1.528369	1.452152		-5.0	20
Terphenyl-d14	A	50.00	50.82	0.9747992	0.9907027		1.6	20
2,4,6-Tribromophenol	A	100.0	97.21	0.1757114	0.1708125		-2.8	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-ICV2.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33501	Injection Date:	11/30/11
Lab Sample ID:	1L33501-ICV2	Injection Time:	21:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.50	1.789924	1.736341		-3.0	20
Atrazine	A	50.00	48.35	0.2287899	0.2212595		-3.3	20
Benzaldehyde	A	50.00	48.97	1.002389	0.9817266		-2.1	20
Benzidine	A	50.00	64.48	0.5823277	0.7509658		29.0	20 *
1,1-Biphenyl	A	50.00	47.41	1.472294	1.396146		-5.2	20
Caprolactam	A	50.00	47.07	0.1256633	0.1183091		-5.9	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-ICV4.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33501	Injection Date:	12/01/11
Lab Sample ID:	1L33501-ICV4	Injection Time:	09:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	25.00	21.48	0.3766254	0.3235554		-14.1	20
Pentachlorophenol	L	50.00	52.83	0.1565669	0.1823986		5.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	11/04/11 00:00
Sequence:	1K33208	Injection Date:	11/23/11
Lab Sample ID:	1K33208-CCV1	Injection Time:	13:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
3,3'-Dichlorobenzidine	A	50.00	62.84	0.3434772	0.4316623		25.7	20	*
Acenaphthene	A	50.00	49.38	1.298253	1.282076		-1.2	20	
Acenaphthylene	A	50.00	49.27	2.012924	1.983414		-1.5	20	
Acetophenone	A	50.00	53.56	1.69532	1.815874		7.1	20	
Anthracene	A	50.00	47.32	1.104209	1.04515		-5.3	20	
Atrazine	A	50.00	56.63	0.19571	0.2216492		13.3	20	
Benzaldehyde	A	50.00	48.95	1.14891	1.124717		-2.1	20	
Benzidine	L	50.00	57.40	0.6865972	0.9059537		14.8	20	
Benzo(a)anthracene	A	50.00	56.42	1.104055	1.245717		12.8	20	
Benzo(a)pyrene	A	50.00	57.19	0.9611542	1.09935		14.4	20	
Benzo(b)fluoranthene	A	50.00	61.32	1.112206	1.363904		22.6	20	*
Benzo(g,h,i)perylene	A	50.00	49.47	0.7826851	0.7743457		-1.1	20	
Benzoic acid	L	50.00	58.95	0.1785498	0.2531276		17.9	20	
Benzo(k)fluoranthene	A	50.00	51.01	1.149534	1.172807		2.0	20	
1,1-Biphenyl	A	50.00	41.78	1.638936	1.369335		-16.4	20	
4-Bromophenyl-phenylether	A	50.00	50.08	0.2083968	0.2087541		0.2	20	
Butylbenzylphthalate	A	50.00	53.66	0.7952925	0.8535167		7.3	20	
Caprolactam	A	50.00	58.55	0.1019333	0.1193627		17.1	20	
Carbazole	A	50.00	47.29	1.011749	0.9569862		-5.4	20	
4-Chloro-3-methylphenol	A	50.00	55.89	0.2513089	0.2808967		11.8	20	
4-Chloroaniline	A	50.00	45.29	0.472381	0.4278987		-9.4	20	
Bis(2-chloroethoxy)methane	A	50.00	39.94	0.4763036	0.3804976		-20.1	20	*
Bis(2-chloroethyl)ether	A	50.00	42.45	1.595832	1.354814		-15.1	20	
2,2'-Oxybis-1-chloropropane	A	50.00	28.44	2.413811	1.37314		-43.1	20	*
2-Chloronaphthalene	A	50.00	43.07	1.225048	1.055224		-13.9	20	
2-Chlorophenol	A	50.00	53.87	1.609251	1.733936		7.7	20	
4-Chlorophenyl phenyl ether	A	50.00	63.04	0.550405	0.6939931		26.1	20	*
Chrysene	A	50.00	52.10	1.080943	1.126366		4.2	20	
Dibenz(a,h)anthracene	A	50.00	49.29	0.7873183	0.7761578		-1.4	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	11/04/11 00:00
Sequence:	1K33208	Injection Date:	11/23/11
Lab Sample ID:	1K33208-CCV1	Injection Time:	13:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.00	48.72	1.739137	1.694781		-2.6	20
Di-n-butylphthalate	A	50.00	44.99	1.579311	1.420989		-10.0	20
2,4-Dichlorophenol	A	50.00	47.53	0.2644541	0.2513901		-4.9	20
Diethylphthalate	A	50.00	57.32	1.41991	1.627662		14.6	20
2,4-Dimethylphenol	A	50.00	52.30	0.3164993	0.3310466		4.6	20
Dimethyl phthalate	A	50.00	49.75	1.385845	1.378914		-0.5	20
4,6-Dinitro-2-methylphenol	Q	50.00	70.00	0.1007682	0.1778356		40.0	20 *
2,4-Dinitrophenol	Q	50.00	76.40	0.1080489	0.2258053	0.05	52.8	20 *
2,4-Dinitrotoluene	L	50.00	55.62	0.3505742	0.4446462		11.2	20
2,6-Dinitrotoluene	A	50.00	59.91	0.3044889	0.3648659		19.8	20
Di-n-octylphthalate	L	50.00	54.00	1.855124	2.303957		8.0	20
1,2-Diphenylhydrazine	A	50.00	54.59	0.9433606	1.029935		9.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	51.60	1.110597	1.146251		3.2	20
Fluoranthene	A	50.00	53.32	1.067861	1.138817		6.6	20
Fluorene	A	50.00	52.25	1.203765	1.258031		4.5	20
Hexachlorobenzene	A	50.00	52.55	0.2505686	0.2633299		5.1	20
Hexachlorobutadiene	A	50.00	61.06	0.1448658	0.1769198		22.1	20 *
Hexachlorocyclopentadiene	A	50.00	51.91	0.3481283	0.3614536	0.05	3.8	20
Hexachloroethane	A	50.00	53.23	0.6315411	0.6723114		6.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.45	0.7849404	0.8234798		4.9	20
Isophorone	A	50.00	47.16	0.7049527	0.66486		-5.7	20
1-Methylnaphthalene	A	50.00	48.56	0.5349792	0.5195616		-2.9	20
2-Methylnaphthalene	A	50.00	49.74	0.5392	0.5364248		-0.5	20
2-Methylphenol	A	50.00	45.06	1.355581	1.221631		-9.9	20
3-Methylphenol/4-Methylphenol	A	50.00	42.49	1.405911	1.194696		-15.0	20
Naphthalene	A	50.00	47.99	1.121513	1.076509		-4.0	20
4-Nitroaniline	L	50.00	62.64	0.3040362	0.4315795		25.3	20 *
3-Nitroaniline	A	50.00	60.25	0.3653235	0.4402244		20.5	20 *
2-Nitroaniline	L	50.00	67.26	0.2779291	0.4222014		34.5	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1314005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	11/04/11 00:00
Sequence:	1K33208	Injection Date:	11/23/11
Lab Sample ID:	1K33208-CCV1	Injection Time:	13:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Nitrobenzene	A	50.00	59.26	0.312768	0.3706802		18.5	20	
4-Nitrophenol	L	50.00	69.92	0.17017	0.2743823	0.05	39.8	20	*
2-Nitrophenol	A	50.00	58.19	0.1989099	0.2315062		16.4	20	
N-Nitrosodiphenylamine	A	50.00	44.84	0.7074234	0.6344473		-10.3	20	
N-Nitroso-di-n-propylamine	A	50.00	54.19	0.8936003	0.9684261	0.05	8.4	20	
Pentachlorophenol	A	50.00	55.64	0.1540112	0.171384		11.3	20	
Phenanthrene	A	50.00	45.37	1.097917	0.9963052		-9.3	20	
Phenol	A	50.00	43.05	2.00287	1.724643		-13.9	20	
Pyrene	A	50.00	54.46	1.44321	1.57188		8.9	20	
2,4,6-Trichlorophenol	A	50.00	62.27	0.3642009	0.4535614		24.5	20	*
2,4,5-Trichlorophenol	A	50.00	61.52	0.3748305	0.4611634		23.0	20	*
2-Fluorobiphenyl	A	50.00	48.15	1.442391	1.38901		-3.7	20	
2-Fluorophenol	A	100.0	91.26	1.573089	1.435652		-8.7	20	
Nitrobenzene-d5	A	50.00	55.10	0.3259665	0.3591882		10.2	20	
Phenol-d6	A	100.0	74.39	1.947798	1.448897		-25.6	20	*
Terphenyl-d14	A	50.00	51.20	0.9256836	0.9478189		2.4	20	
2,4,6-Tribromophenol	A	100.0	108.3	0.1504897	0.1629424		8.3	20	

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-CCVE.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33702	Injection Date:	12/03/11
Lab Sample ID:	1L33702-CCV1	Injection Time:	00:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	47.17	1.223018	1.153848		-5.7	20
Acenaphthylene	A	50.00	46.03	2.009189	1.849604		-7.9	20
Acetophenone	A	50.00	47.59	1.789924	1.703539		-4.8	20
Anthracene	A	50.00	46.59	1.035085	0.9644324		-6.8	20
Atrazine	A	50.00	41.87	0.2287899	0.1915909		-16.3	20
Benzaldehyde	A	50.00	36.24	1.002389	0.7266163		-27.5	20 *
Benzidine	A	50.00	54.22	0.5823277	0.6314231		8.4	20
Benzo(a)anthracene	A	50.00	46.67	1.174259	1.096142		-6.7	20
Benzo(a)pyrene	A	50.00	45.52	1.065382	0.9700257		-9.0	20
Benzo(b)fluoranthene	A	50.00	48.60	1.248403	1.213401		-2.8	20
Benzo(g,h,i)perylene	A	50.00	38.97	0.7688873	0.5992151		-22.1	20 *
Benzoic acid	L	50.00	40.03	0.1838425	0.1723431		-19.9	20
Benzo(k)fluoranthene	A	50.00	47.16	1.247823	1.176876		-5.7	20
1,1-Biphenyl	A	50.00	42.48	1.472294	1.250768		-15.0	20
4-Bromophenyl-phenylether	A	50.00	46.33	0.2332731	0.2161621		-7.3	20
Butylbenzylphthalate	A	50.00	46.90	0.707063	0.663186		-6.2	20
Caprolactam	A	50.00	44.57	0.1256633	0.1120096		-10.9	20
Carbazole	A	50.00	45.77	0.9423179	0.8625887		-8.5	20
4-Chloro-3-methylphenol	A	50.00	45.34	0.300197	0.2722344		-9.3	20
4-Chloroaniline	A	50.00	40.85	0.489858	0.4002193		-18.3	20
Bis(2-chloroethoxy)methane	A	50.00	41.89	0.3969414	0.3325431		-16.2	20
Bis(2-chloroethyl)ether	A	50.00	42.60	1.298703	1.106569		-14.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	36.54	1.40866	1.029324		-26.9	20 *
2-Chloronaphthalene	A	50.00	42.34	1.170012	0.9907172		-15.3	20
2-Chlorophenol	A	50.00	44.99	1.658903	1.492802		-10.0	20
4-Chlorophenyl phenyl ether	A	50.00	45.99	0.7290486	0.6706307		-8.0	20
Chrysene	A	50.00	42.79	1.117485	0.9564161		-14.4	20
Dibenz(a,h)anthracene	A	50.00	42.76	0.803238	0.6868671		-14.5	20
Dibenzofuran	A	50.00	46.68	1.661223	1.550874		-6.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-CCVE.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33702	Injection Date:	12/03/11
Lab Sample ID:	1L33702-CCV1	Injection Time:	00:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	46.38	1.357577	1.259219		-7.2	20
3,3'-Dichlorobenzidine	A	50.00	57.04	0.3766254	0.4296861		14.1	20
2,4-Dichlorophenol	A	50.00	46.05	0.2654029	0.2444318		-7.9	20
Diethylphthalate	A	50.00	46.59	1.527134	1.423046		-6.8	20
2,4-Dimethylphenol	A	50.00	44.90	0.3679259	0.3304376		-10.2	20
Dimethyl phthalate	A	50.00	46.59	1.444908	1.34633		-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	47.17	0.1479015	0.1559161		-5.7	20
2,4-Dinitrophenol	L	50.00	45.97	0.1749985	0.1973621	0.05	-8.1	20
2,4-Dinitrotoluene	A	50.00	47.24	0.4826951	0.4561007		-5.5	20
2,6-Dinitrotoluene	A	50.00	48.22	0.3645169	0.3515087		-3.6	20
Di-n-octylphthalate	A	50.00	52.45	1.766484	1.853052		4.9	20
1,2-Diphenylhydrazine	A	50.00	44.31	0.9836174	0.8717613		-11.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	47.07	0.9447529	0.8893878		-5.9	20
Fluoranthene	A	50.00	46.34	1.113582	1.032093		-7.3	20
Fluorene	A	50.00	46.45	1.331843	1.237369		-7.1	20
Hexachlorobenzene	A	50.00	47.04	0.2834044	0.2666385		-5.9	20
Hexachlorobutadiene	A	50.00	48.00	0.2078286	0.199518		-4.0	20
Hexachlorocyclopentadiene	A	50.00	51.32	0.4253653	0.4366421	0.05	2.7	20
Hexachloroethane	A	50.00	45.68	0.6720329	0.6139386		-8.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	42.40	0.7598931	0.6444781		-15.2	20
Isophorone	A	50.00	44.57	0.698734	0.6228925		-10.9	20
1-Methylnaphthalene	A	50.00	44.67	0.5507547	0.4920782		-10.7	20
2-Methylnaphthalene	A	50.00	44.03	0.5652041	0.49775		-11.9	20
2-Methylphenol	A	50.00	44.26	1.160301	1.027004		-11.5	20
3-Methylphenol/4-Methylphenol	A	50.00	43.10	1.170128	1.00874		-13.8	20
Naphthalene	A	50.00	44.76	1.088503	0.9743833		-10.5	20
4-Nitroaniline	A	50.00	48.15	0.3834599	0.3693018		-3.7	20
3-Nitroaniline	A	50.00	47.02	0.4189922	0.3940331		-6.0	20
2-Nitroaniline	A	50.00	45.80	0.401778	0.3679955		-8.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-CCVE.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33702	Injection Date:	12/03/11
Lab Sample ID:	1L33702-CCV1	Injection Time:	00:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	44.27	0.3880997	0.3436515		-11.5	20
4-Nitrophenol	A	50.00	49.43	0.2605483	0.2575764	0.05	-1.1	20
2-Nitrophenol	A	50.00	46.00	0.2279546	0.2097369		-8.0	20
N-Nitrosodiphenylamine	A	50.00	44.63	0.6218004	0.5550156		-10.7	20
N-Nitroso-di-n-propylamine	A	50.00	45.94	0.961439	0.8833336	0.05	-8.1	20
Pentachlorophenol	L	50.00	49.82	0.1565669	0.1715207		-0.4	20
Phenanthrene	A	50.00	45.91	1.024136	0.9403776		-8.2	20
Phenol	A	50.00	44.98	1.634171	1.470227		-10.0	20
Pyrene	A	50.00	48.06	1.505458	1.446979		-3.9	20
2,4,6-Trichlorophenol	A	50.00	47.60	0.461356	0.439256		-4.8	20
2,4,5-Trichlorophenol	A	50.00	48.07	0.4861279	0.4673719		-3.9	20
2-Fluorobiphenyl	A	50.00	45.34	1.422811	1.290259		-9.3	20
2-Fluorophenol	A	100.0	84.03	1.472689	1.237495		-16.0	20
Nitrobenzene-d5	A	50.00	42.46	0.3912423	0.332212		-15.1	20
Phenol-d6	A	100.0	82.38	1.528369	1.259005		-17.6	20
Terphenyl-d14	A	50.00	45.84	0.9747992	0.8938089		-8.3	20
2,4,6-Tribromophenol	A	100.0	90.78	0.1757114	0.1595036		-9.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-CCV1.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33907	Injection Date:	12/03/11
Lab Sample ID:	1L33907-CCV1	Injection Time:	12:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	45.37	1.223018	1.109833		-9.3	20
Acenaphthylene	A	50.00	44.54	2.009189	1.789668		-10.9	20
Acetophenone	A	50.00	47.96	1.789924	1.716742		-4.1	20
Anthracene	A	50.00	44.95	1.035085	0.9306425		-10.1	20
Atrazine	A	50.00	40.34	0.2287899	0.1845688		-19.3	20
Benzaldehyde	A	50.00	34.79	1.002389	0.697397		-30.4	20 *
Benzidine	A	50.00	59.43	0.5823277	0.6921225		18.9	20
Benzo(a)anthracene	A	50.00	50.03	1.174259	1.174983		0.06	20
Benzo(a)pyrene	A	50.00	45.69	1.065382	0.973576		-8.6	20
Benzo(b)fluoranthene	A	50.00	45.60	1.248403	1.138541		-8.8	20
Benzo(g,h,i)perylene	A	50.00	40.66	0.7688873	0.6252143		-18.7	20
Benzoic acid	L	50.00	44.53	0.1838425	0.1951911		-10.9	20
Benzo(k)fluoranthene	A	50.00	51.57	1.247823	1.28708		3.1	20
1,1-Biphenyl	A	50.00	42.22	1.472294	1.243097		-15.6	20
4-Bromophenyl-phenylether	A	50.00	45.19	0.2332731	0.2108371		-9.6	20
Butylbenzylphthalate	A	50.00	52.21	0.707063	0.7383514		4.4	20
Caprolactam	A	50.00	44.72	0.1256633	0.1124052		-10.6	20
Carbazole	A	50.00	45.26	0.9423179	0.8529858		-9.5	20
4-Chloro-3-methylphenol	A	50.00	47.95	0.300197	0.2878888		-4.1	20
4-Chloroaniline	A	50.00	39.85	0.489858	0.3904294		-20.3	20 *
Bis(2-chloroethoxy)methane	A	50.00	41.37	0.3969414	0.3284058		-17.3	20
Bis(2-chloroethyl)ether	A	50.00	40.91	1.298703	1.062683		-18.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	33.83	1.40866	0.9531572		-32.3	20 *
2-Chloronaphthalene	A	50.00	42.02	1.170012	0.9832853		-16.0	20
2-Chlorophenol	A	50.00	44.68	1.658903	1.48232		-10.6	20
4-Chlorophenyl phenyl ether	A	50.00	45.00	0.7290486	0.6562267		-10.0	20
Chrysene	A	50.00	47.35	1.117485	1.058224		-5.3	20
Dibenz(a,h)anthracene	A	50.00	43.14	0.803238	0.6929644		-13.7	20
Dibenzofuran	A	50.00	45.52	1.661223	1.512477		-9.0	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-CCV1.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33907	Injection Date:	12/03/11
Lab Sample ID:	1L33907-CCV1	Injection Time:	12:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	47.65	1.357577	1.293723		-4.7	20
3,3'-Dichlorobenzidine	A	50.00	57.59	0.3766254	0.4337693		15.2	20
2,4-Dichlorophenol	A	50.00	44.76	0.2654029	0.2376164		-10.5	20
Diethylphthalate	A	50.00	46.79	1.527134	1.429142		-6.4	20
2,4-Dimethylphenol	A	50.00	46.88	0.3679259	0.3450025		-6.2	20
Dimethyl phthalate	A	50.00	45.17	1.444908	1.305388		-9.7	20
4,6-Dinitro-2-methylphenol	L	50.00	48.03	0.1479015	0.1589383		-3.9	20
2,4-Dinitrophenol	L	50.00	53.71	0.1749985	0.2359546	0.05	7.4	20
2,4-Dinitrotoluene	A	50.00	49.48	0.4826951	0.4776854		-1.0	20
2,6-Dinitrotoluene	A	50.00	47.83	0.3645169	0.3487247		-4.3	20
Di-n-octylphthalate	A	50.00	54.06	1.766484	1.910083		8.1	20
1,2-Diphenylhydrazine	A	50.00	43.18	0.9836174	0.8493939		-13.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	50.41	0.9447529	0.9525329		0.8	20
Fluoranthene	A	50.00	48.15	1.113582	1.072379		-3.7	20
Fluorene	A	50.00	44.91	1.331843	1.196366		-10.2	20
Hexachlorobenzene	A	50.00	45.91	0.2834044	0.2602477		-8.2	20
Hexachlorobutadiene	A	50.00	50.12	0.2078286	0.2083086		0.2	20
Hexachlorocyclopentadiene	A	50.00	48.21	0.4253653	0.4101136	0.05	-3.6	20
Hexachloroethane	A	50.00	45.38	0.6720329	0.6099094		-9.2	20
Indeno(1,2,3-cd)pyrene	A	50.00	41.73	0.7598931	0.634252		-16.5	20
Isophorone	A	50.00	45.09	0.698734	0.6300811		-9.8	20
1-Methylnaphthalene	A	50.00	43.89	0.5507547	0.4834319		-12.2	20
2-Methylnaphthalene	A	50.00	44.03	0.5652041	0.4976949		-11.9	20
2-Methylphenol	A	50.00	41.62	1.160301	0.9658632		-16.8	20
3-Methylphenol/4-Methylphenol	A	50.00	40.00	1.170128	0.9361859		-20.0	20
Naphthalene	A	50.00	43.86	1.088503	0.9547614		-12.3	20
4-Nitroaniline	A	50.00	50.40	0.3834599	0.3865299		0.8	20
3-Nitroaniline	A	50.00	48.64	0.4189922	0.4075693		-2.7	20
2-Nitroaniline	A	50.00	47.68	0.401778	0.3831321		-4.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1339003
Lab File ID:	SEQ-CCV1.D	Calibration Date:	11/30/11 00:00
Sequence:	1L33907	Injection Date:	12/03/11
Lab Sample ID:	1L33907-CCV1	Injection Time:	12:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	46.35	0.3880997	0.3597769		-7.3	20
4-Nitrophenol	A	50.00	50.31	0.2605483	0.2621819	0.05	0.6	20
2-Nitrophenol	A	50.00	46.99	0.2279546	0.2142413		-6.0	20
N-Nitrosodiphenylamine	A	50.00	45.44	0.6218004	0.5650392		-9.1	20
N-Nitroso-di-n-propylamine	A	50.00	44.48	0.961439	0.855285	0.05	-11.0	20
Pentachlorophenol	L	50.00	51.30	0.1565669	0.1768481		2.6	20
Phenanthrene	A	50.00	45.44	1.024136	0.9307541		-9.1	20
Phenol	A	50.00	40.27	1.634171	1.316263		-19.5	20
Pyrene	A	50.00	49.67	1.505458	1.495539		-0.7	20
2,4,6-Trichlorophenol	A	50.00	48.52	0.461356	0.447678		-3.0	20
2,4,5-Trichlorophenol	A	50.00	48.93	0.4861279	0.4757724		-2.1	20
2-Fluorobiphenyl	A	50.00	43.67	1.422811	1.242819		-12.7	20
2-Fluorophenol	A	100.0	78.45	1.472689	1.155357		-21.5	20 *
Nitrobenzene-d5	A	50.00	44.08	0.3912423	0.3449291		-11.8	20
Phenol-d6	A	100.0	75.58	1.528369	1.155113		-24.4	20 *
Terphenyl-d14	A	50.00	50.38	0.9747992	0.9821491		0.8	20
2,4,6-Tribromophenol	A	100.0	91.93	0.1757114	0.1615363		-8.1	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K17001-BLK1 File ID: K17001B1.D

Sampled: Prepared: Analyzed: 11/23/11 22:29

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K17001 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
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	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	Y, U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	Q, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	Y, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	Q, U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	Q, X, U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	Q, U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	Q, 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	X, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1K17001-BLK1	File ID:	K17001B1.D
Sampled:		Prepared:		Analyzed:	11/23/11 22:29
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1K17001 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, X, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, 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	X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	X, U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	Q, X, U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	X, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	Q, 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	X, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	35.11	70.2	50 - 110	
2-Fluorophenol	100.0	25.96	26.0	20 - 110	
Nitrobenzene-d5	50.00	39.77	79.5	40 - 110	
Phenol-d6	100.0	13.51	13.5	0 - 110	Y
Terphenyl-d14	50.00	45.21	90.4	50 - 135	
2,4,6-Tribromophenol	100.0	84.45	84.4	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_036

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

Matrix: | Laboratory ID: 1K17001-BS1 | File ID: K17001L1.D

Sampled: | Prepared: | Analyzed: 11/23/11 22:59

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1K17001 | Sequence: 1K33208 | Calibration: 1314005 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	44.73	1.25	2.50	5.00	X
83-32-9	Acenaphthene	43.71	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.80	1.25	2.50	5.00	
98-86-2	Acetophenone	47.22	1.25	2.50	5.00	
120-12-7	Anthracene	39.18	1.25	2.50	5.00	
1912-24-9	Atrazine	52.82	1.25	2.50	5.00	
100-52-7	Benzaldehyde	40.09	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	49.37	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	51.00	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	54.64	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	40.44	1.25	2.50	5.00	
65-85-0	Benzoic acid	18.87	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	49.47	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	39.21	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	53.58	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	53.74	1.25	2.50	5.00	
105-60-2	Caprolactam	9.459	1.25	2.50	5.00	
86-74-8	Carbazole	40.29	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	81.91	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	28.88	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	37.19	1.25	2.50	5.00	Y
111-44-4	Bis(2-chloroethyl)ether	36.70	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	27.37	1.25	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	36.71	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	71.09	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	58.16	1.25	2.50	5.00	X
218-01-9	Chrysene	46.16	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	42.21	1.25	2.50	5.00	
132-64-9	Dibenzofuran	44.77	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	46.02	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	71.05	1.25	2.50	5.00	
84-66-2	Diethylphthalate	57.64	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	75.47	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	51.53	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	112.3	5.00	10.0	20.0	X, E
51-28-5	2,4-Dinitrophenol	108.4	1.00	25.0	50.0	X, E
121-14-2	2,4-Dinitrotoluene	55.20	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	53.18	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	58.29	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_036

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

Matrix: | Laboratory ID: 1K17001-BS1 | File ID: K17001L1.D

Sampled: | Prepared: | Analyzed: 11/23/11 22:59

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1K17001 | Sequence: 1K33208 | Calibration: 1314005 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	48.81	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	50.31	1.25	2.50	5.00	
206-44-0	Fluoranthene	46.19	1.25	2.50	5.00	
86-73-7	Fluorene	47.00	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.46	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	35.55	1.25	2.50	5.00	X
77-47-4	Hexachlorocyclopentadiene	27.97	1.25	2.50	5.00	
67-72-1	Hexachloroethane	24.13	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	41.26	1.25	2.50	5.00	
78-59-1	Isophorone	43.14	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	40.01	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	39.34	1.25	2.50	5.00	
95-48-7	2-Methylphenol	48.83	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	42.65	1.25	2.50	5.00	
91-20-3	Naphthalene	34.41	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	55.27	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	36.18	5.00	10.0	20.0	X
88-74-4	2-Nitroaniline	61.26	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	51.44	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	43.88	5.00	10.0	20.0	X
88-75-5	2-Nitrophenol	88.97	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	33.53	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	51.18	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	101.8	5.00	10.0	20.0	E
85-01-8	Phenanthrene	40.93	1.25	2.50	5.00	
108-95-2	Phenol	22.48	1.25	2.50	5.00	
129-00-0	Pyrene	48.76	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	97.61	1.25	2.50	5.00	X
95-95-4	2,4,5-Trichlorophenol	102.9	1.25	2.50	5.00	X, E

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.22	86.4	50 - 110	
2-Fluorophenol	100.0	38.66	38.7	20 - 110	
Nitrobenzene-d5	50.00	47.33	94.7	40 - 110	
Phenol-d6	100.0	20.04	20.0	0 - 110	Y
Terphenyl-d14	50.00	49.08	98.2	50 - 135	
2,4,6-Tribromophenol	100.0	101.0	101	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K17001-BSD1 File ID: K17001L2.D

Sampled: Prepared: Analyzed: 11/23/11 23:30

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K17001 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	40.66	1.25	2.50	5.00	X
83-32-9	Acenaphthene	35.32	1.25	2.50	5.00	
208-96-8	Acenaphthylene	32.51	1.25	2.50	5.00	
98-86-2	Acetophenone	35.36	1.25	2.50	5.00	
120-12-7	Anthracene	35.13	1.25	2.50	5.00	
1912-24-9	Atrazine	45.73	1.25	2.50	5.00	
100-52-7	Benzaldehyde	29.89	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	43.87	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	44.02	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	48.98	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	35.39	1.25	2.50	5.00	
65-85-0	Benzoic acid	17.89	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	44.96	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	30.64	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	44.29	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	47.61	1.25	2.50	5.00	
105-60-2	Caprolactam	7.449	1.25	2.50	5.00	
86-74-8	Carbazole	36.32	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	64.49	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	25.98	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	28.04	1.25	2.50	5.00	Y
111-44-4	Bis(2-chloroethyl)ether	26.89	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	21.54	1.25	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	29.10	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	50.84	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	49.39	1.25	2.50	5.00	X
218-01-9	Chrysene	42.16	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	37.57	1.25	2.50	5.00	
132-64-9	Dibenzofuran	38.17	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	41.33	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	52.35	1.25	2.50	5.00	
84-66-2	Diethylphthalate	50.52	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	54.39	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	44.48	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	103.8	5.00	10.0	20.0	X, E
51-28-5	2,4-Dinitrophenol	100.8	1.00	25.0	50.0	X, E
121-14-2	2,4-Dinitrotoluene	49.08	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	46.98	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	51.44	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K17001-BSD1 File ID: K17001L2.D

Sampled: Prepared: Analyzed: 11/23/11 23:30

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K17001 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.17	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	45.84	1.25	2.50	5.00	
206-44-0	Fluoranthene	42.83	1.25	2.50	5.00	
86-73-7	Fluorene	40.41	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	43.12	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	24.23	1.25	2.50	5.00	X
77-47-4	Hexachlorocyclopentadiene	20.70	1.25	2.50	5.00	
67-72-1	Hexachloroethane	17.11	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	35.23	1.25	2.50	5.00	
78-59-1	Isophorone	33.67	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	30.66	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	31.42	1.25	2.50	5.00	
95-48-7	2-Methylphenol	36.64	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	32.66	1.25	2.50	5.00	
91-20-3	Naphthalene	25.84	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	47.52	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	34.49	5.00	10.0	20.0	X
88-74-4	2-Nitroaniline	53.91	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	38.71	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	38.89	5.00	10.0	20.0	X
88-75-5	2-Nitrophenol	65.58	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	29.00	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.06	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	88.09	5.00	10.0	20.0	
85-01-8	Phenanthrene	37.27	1.25	2.50	5.00	
108-95-2	Phenol	17.09	1.25	2.50	5.00	
129-00-0	Pyrene	43.27	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	75.93	1.25	2.50	5.00	X
95-95-4	2,4,5-Trichlorophenol	81.70	1.25	2.50	5.00	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.94	69.9	50 - 110	
2-Fluorophenol	100.0	27.49	27.5	20 - 110	
Nitrobenzene-d5	50.00	35.67	71.3	40 - 110	
Phenol-d6	100.0	15.42	15.4	0 - 110	Y
Terphenyl-d14	50.00	44.43	88.9	50 - 135	
2,4,6-Tribromophenol	100.0	83.91	83.9	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21011-BLK1 File ID: K21011B1.D

Sampled: Prepared: Analyzed: 11/23/11 16:55

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
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	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	Y, 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	Y, 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	X, Q, U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	X, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21011-BLK1 File ID: K21011B1.D

Sampled: Prepared: Analyzed: 11/23/11 16:55

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 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	X, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	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	X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	X, U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	Q, X, U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	X, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	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	X, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	35.87	71.7	50 - 110	
2-Fluorophenol	100.0	31.06	31.1	20 - 110	
Nitrobenzene-d5	50.00	44.71	89.4	40 - 110	
Phenol-d6	100.0	16.77	16.8	0 - 110	Y
Terphenyl-d14	50.00	47.65	95.3	50 - 135	
2,4,6-Tribromophenol	100.0	93.94	93.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21011-BS1 File ID: K21011L1.D

Sampled: Prepared: Analyzed: 11/23/11 17:26

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	52.53	1.25	2.50	5.00	X
83-32-9	Acenaphthene	40.91	1.25	2.50	5.00	
208-96-8	Acenaphthylene	37.44	1.25	2.50	5.00	
98-86-2	Acetophenone	45.62	1.25	2.50	5.00	
120-12-7	Anthracene	38.19	1.25	2.50	5.00	
1912-24-9	Atrazine	48.14	1.25	2.50	5.00	
100-52-7	Benzaldehyde	40.63	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	48.03	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	44.97	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	47.36	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	43.07	1.25	2.50	5.00	
65-85-0	Benzoic acid	13.56	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	48.73	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	36.51	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	46.77	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	53.17	1.25	2.50	5.00	
105-60-2	Caprolactam	7.546	1.25	2.50	5.00	
86-74-8	Carbazole	39.50	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	77.49	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	31.00	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	35.52	1.25	2.50	5.00	Y
111-44-4	Bis(2-chloroethyl)ether	35.24	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	26.82	1.25	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	35.28	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	66.37	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	55.94	1.25	2.50	5.00	X
218-01-9	Chrysene	45.95	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	43.87	1.25	2.50	5.00	
132-64-9	Dibenzofuran	43.83	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	44.54	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	67.85	1.25	2.50	5.00	
84-66-2	Diethylphthalate	54.81	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	72.98	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	48.86	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	109.7	5.00	10.0	20.0	X, E
51-28-5	2,4-Dinitrophenol	112.0	1.00	25.0	50.0	X, E
121-14-2	2,4-Dinitrotoluene	52.58	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	49.82	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	50.52	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_036

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

Matrix: | Laboratory ID: 1K21011-BS1 | File ID: K21011L1.D

Sampled: | Prepared: | Analyzed: 11/23/11 17:26

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1K21011 | Sequence: 1K33208 | Calibration: 1314005 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	46.02	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	50.40	1.25	2.50	5.00	
206-44-0	Fluoranthene	43.51	1.25	2.50	5.00	
86-73-7	Fluorene	44.87	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	46.87	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	32.55	1.25	2.50	5.00	X
77-47-4	Hexachlorocyclopentadiene	24.90	1.25	2.50	5.00	
67-72-1	Hexachloroethane	24.53	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	44.30	1.25	2.50	5.00	
78-59-1	Isophorone	40.97	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	38.53	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	38.80	1.25	2.50	5.00	
95-48-7	2-Methylphenol	43.23	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	37.76	1.25	2.50	5.00	
91-20-3	Naphthalene	34.78	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	52.55	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	40.32	5.00	10.0	20.0	X
88-74-4	2-Nitroaniline	59.00	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	49.12	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	36.27	5.00	10.0	20.0	X
88-75-5	2-Nitrophenol	88.45	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	31.27	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	49.34	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	94.68	5.00	10.0	20.0	
85-01-8	Phenanthrene	38.06	1.25	2.50	5.00	
108-95-2	Phenol	18.91	1.25	2.50	5.00	
129-00-0	Pyrene	48.16	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	96.23	1.25	2.50	5.00	X
95-95-4	2,4,5-Trichlorophenol	101.5	1.25	2.50	5.00	X, E

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.34	82.7	50 - 110	
2-Fluorophenol	100.0	32.42	32.4	20 - 110	
Nitrobenzene-d5	50.00	44.88	89.8	40 - 110	
Phenol-d6	100.0	16.29	16.3	0 - 110	Y
Terphenyl-d14	50.00	52.39	105	50 - 135	
2,4,6-Tribromophenol	100.0	95.27	95.3	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21011-BSD1 File ID: K21011L2.D

Sampled: Prepared: Analyzed: 11/23/11 17:56

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	50.02	1.25	2.50	5.00	X
83-32-9	Acenaphthene	39.24	1.25	2.50	5.00	
208-96-8	Acenaphthylene	36.34	1.25	2.50	5.00	
98-86-2	Acetophenone	46.22	1.25	2.50	5.00	
120-12-7	Anthracene	38.24	1.25	2.50	5.00	
1912-24-9	Atrazine	49.94	1.25	2.50	5.00	
100-52-7	Benzaldehyde	40.13	1.25	2.50	5.00	
92-87-5	Benzidine	13.15	12.5	25.0	50.0	J
56-55-3	Benzo(a)anthracene	47.28	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	44.58	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	47.98	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	40.63	1.25	2.50	5.00	
65-85-0	Benzoic acid	14.64	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	47.43	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	35.45	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	47.84	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	53.44	1.25	2.50	5.00	
105-60-2	Caprolactam	7.097	1.25	2.50	5.00	
86-74-8	Carbazole	39.66	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	74.26	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	30.27	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	36.06	1.25	2.50	5.00	Y
111-44-4	Bis(2-chloroethyl)ether	36.32	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	27.36	1.25	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	33.11	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	65.14	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	52.12	1.25	2.50	5.00	X
218-01-9	Chrysene	44.61	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	41.06	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.37	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	42.91	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	66.95	1.25	2.50	5.00	
84-66-2	Diethylphthalate	51.59	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	70.37	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	46.31	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	112.3	5.00	10.0	20.0	X, E
51-28-5	2,4-Dinitrophenol	108.4	1.00	25.0	50.0	X, E
121-14-2	2,4-Dinitrotoluene	51.68	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	49.42	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	51.97	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Matrix: Laboratory ID: 1K21011-BSD1 File ID: K21011L2.D

Sampled: Prepared: Analyzed: 11/23/11 17:56

Solids: Preparation: EXT_3510 Dilution:

Batch: 1K21011 Sequence: 1K33208 Calibration: 1314005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	45.20	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	48.20	1.25	2.50	5.00	
206-44-0	Fluoranthene	43.75	1.25	2.50	5.00	
86-73-7	Fluorene	43.19	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	46.67	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	24.89	1.25	2.50	5.00	X
77-47-4	Hexachlorocyclopentadiene	19.83	1.25	2.50	5.00	
67-72-1	Hexachloroethane	18.26	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	41.54	1.25	2.50	5.00	
78-59-1	Isophorone	40.83	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	38.15	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	36.23	1.25	2.50	5.00	
95-48-7	2-Methylphenol	42.72	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	37.62	1.25	2.50	5.00	
91-20-3	Naphthalene	31.39	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	48.14	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	37.28	5.00	10.0	20.0	X
88-74-4	2-Nitroaniline	56.45	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	49.75	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	31.78	5.00	10.0	20.0	X
88-75-5	2-Nitrophenol	88.56	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	32.53	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	50.29	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	94.91	5.00	10.0	20.0	
85-01-8	Phenanthrene	37.97	1.25	2.50	5.00	
108-95-2	Phenol	18.44	1.25	2.50	5.00	
129-00-0	Pyrene	47.93	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	92.69	1.25	2.50	5.00	X
95-95-4	2,4,5-Trichlorophenol	96.81	1.25	2.50	5.00	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.90	79.8	50 - 110	
2-Fluorophenol	100.0	31.46	31.5	20 - 110	
Nitrobenzene-d5	50.00	45.33	90.7	40 - 110	
Phenol-d6	100.0	15.89	15.9	0 - 110	Y
Terphenyl-d14	50.00	53.04	106	50 - 135	
2,4,6-Tribromophenol	100.0	95.43	95.4	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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
GW0250	11/15/11 09:41	11/16/11 08:20	11/17/11 10:00	1.97	7.00	12/03/11 08:23	15.93	40.00	
GW0289	11/15/11 13:29	11/16/11 08:20	11/17/11 10:00	1.81	7.00	12/03/11 08:54	15.95	40.00	
GW0290	11/15/11 10:58	11/16/11 08:20	11/17/11 10:00	1.92	7.00	12/03/11 09:25	15.98	40.00	
GW0331	11/14/11 16:18	11/16/11 08:20	11/17/11 10:00	2.70	7.00	12/03/11 09:55	16.00	40.00	
GW0332	11/14/11 13:39	11/16/11 08:20	11/17/11 10:00	2.81	7.00	12/03/11 10:27	16.02	40.00	
GW0352	11/15/11 13:31	11/16/11 08:20	11/17/11 10:00	1.81	7.00	12/03/11 12:39	16.11	40.00	
GW0288	11/15/11 15:44	11/17/11 08:30	11/17/11 14:00	1.89	7.00	12/03/11 13:10	15.97	40.00	
GW0344	11/16/11 10:21	11/17/11 08:30	11/17/11 14:00	1.11	7.00	12/03/11 13:41	15.99	40.00	
GW0345	11/16/11 13:08	11/17/11 08:30	11/17/11 14:00	0.99	7.00	12/03/11 14:12	16.01	40.00	
GW0351	11/16/11 10:23	11/17/11 08:30	11/17/11 14:00	1.11	7.00	12/03/11 14:43	16.03	40.00	
GW0274	11/17/11 11:11	11/18/11 08:20	11/21/11 12:00	3.99	7.00	11/23/11 19:58	2.33	40.00	
GW0275	11/17/11 11:11	11/18/11 08:20	11/21/11 12:00	3.99	7.00	11/23/11 20:28	2.35	40.00	
GW0346	11/17/11 11:43	11/18/11 08:20	11/21/11 12:00	3.97	7.00	11/23/11 20:58	2.37	40.00	
GW0353	11/16/11 14:53	11/18/11 08:20	11/21/11 12:00	4.84	7.00	11/23/11 21:29	2.40	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26927	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I26927-CAL1	003F0301.D	09/23/11 14:35
Cal Standard	1I26927-CAL2	004F0401.D	09/23/11 15:15
Cal Standard	1I26927-CAL3	005F0501.D	09/23/11 15:55
Cal Standard	1I26927-CAL4	006F0601.D	09/23/11 16:34
Cal Standard	1I26927-CAL5	007F0701.D	09/23/11 17:14
Cal Standard	1I26927-CAL6	008F0801.D	09/23/11 17:53
Initial Cal Check	1I26927-ICV1	009F0901.D	09/23/11 18:33

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33304	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1K33304-CCV1	003F0301.D	11/22/11 16:14
LCS	1K22002-BS1	004F0401.D	11/22/11 16:54
Blank	1K22002-BLK1	005F0501.D	11/22/11 17:34
GW0289	1111148-03	008F0801.D	11/22/11 19:35
GW0290	1111148-05	009F0901.D	11/22/11 20:14
GW0331	1111148-07	010F1001.D	11/22/11 20:54
GW0332	1111148-09	011F1101.D	11/22/11 21:34
GW0352	1111148-11	012F1201.D	11/22/11 22:13
GW0288	1111162-01	013F1301.D	11/22/11 22:52
GW0344	1111162-03	014F1401.D	11/22/11 23:31
GW0250	1111148-01	015F1501.D	11/23/11 00:11
GW0250	1K22002-MS1	016F1601.D	11/23/11 00:51
GW0250	1K22002-MSD1	017F1701.D	11/23/11 01:30
Calibration Check	1K33304-CCV2	018F1801.D	11/23/11 02:09
GW0345	1111162-05	019F1901.D	11/23/11 02:49
GW0351	1111162-07	020F2001.D	11/23/11 03:28
GW0274	1111177-01	021F2101.D	11/23/11 04:08
GW0275	1111177-03	022F2201.D	11/23/11 04:47
GW0346	1111177-05	023F2301.D	11/23/11 05:27
GW0353	1111177-07	024F2401.D	11/23/11 06:06
Calibration Check	1K33304-CCV3	025F2501.D	11/23/11 06:46

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	015F1501.D
Sampled:	11/15/11 09:41	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 00:11
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04246	84.9	50 - 150	Y

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	008F0801.D
Sampled:	11/15/11 13:29	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 19:35
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04367	87.3	50 - 150	Y

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	009F0901.D
Sampled:	11/15/11 10:58	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 20:14
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04452	89.0	50 - 150	Y

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	010F1001.D
Sampled:	11/14/11 16:18	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 20:54
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04433	88.7	50 - 150	Y

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	011F1101.D
Sampled:	11/14/11 13:39	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 21:34
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04417	88.3	50 - 150	Y

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	012F1201.D
Sampled:	11/15/11 13:31	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 22:13
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.36	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05226	105	50 - 150	Y

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	013F1301.D
Sampled:	11/15/11 15:44	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 22:52
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04318	86.4	50 - 150	Y

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	014F1401.D
Sampled:	11/16/11 10:21	Prepared:	11/22/11 06:35	Analyzed:	11/22/11 23:31
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.653	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04886	97.7	50 - 150	Y

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	019F1901.D
Sampled:	11/16/11 13:08	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 02:49
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.258	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04289	85.8	50 - 150	Y

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	020F2001.D
Sampled:	11/16/11 10:23	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 03:28
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.596	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04705	94.1	50 - 150	Y

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	021F2101.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 04:08
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.03868	77.4	50 - 150	Y

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	022F2201.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 04:47
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.03963	79.3	50 - 150	Y

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	023F2301.D
Sampled:	11/17/11 11:43	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 05:27
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.03930	78.6	50 - 150	Y

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	024F2401.D
Sampled:	11/16/11 14:53	Prepared:	11/22/11 06:35	Analyzed:	11/23/11 06:06
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.04654	93.1	50 - 150	Y

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K22002	Laboratory ID:	1K22002-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	0.5065	101	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0250

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1K22002

% Solids:

Source Sample Name: **1111148-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.4832	96.6		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4632	92.6	4.21		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K22002 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/22/11 06:35	5.00	5.00
GW0289	1111148-03	11/22/11 06:35	5.00	5.00
GW0290	1111148-05	11/22/11 06:35	5.00	5.00
GW0331	1111148-07	11/22/11 06:35	5.00	5.00
GW0332	1111148-09	11/22/11 06:35	5.00	5.00
GW0352	1111148-11	11/22/11 06:35	5.00	5.00
GW0288	1111162-01	11/22/11 06:35	5.00	5.00
GW0344	1111162-03	11/22/11 06:35	5.00	5.00
GW0345	1111162-05	11/22/11 06:35	5.00	5.00
GW0351	1111162-07	11/22/11 06:35	5.00	5.00
GW0274	1111177-01	11/22/11 06:35	5.00	5.00
GW0275	1111177-03	11/22/11 06:35	5.00	5.00
GW0346	1111177-05	11/22/11 06:35	5.00	5.00
GW0353	1111177-07	11/22/11 06:35	5.00	5.00
Blank	1K22002-BLK1	11/22/11 06:35	5.00	5.00
LCS	1K22002-BS1	11/22/11 06:35	5.00	5.00
GW0250	1K22002-MS1	11/22/11 06:35	5.00	5.00
GW0250	1K22002-MSD1	11/22/11 06:35	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26927	Instrument:	GL-GCVOA2
Calibration:	1269006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0631	GRO Cal 0.1ppm	1I26927-CAL1	003F0301.D	09/23/11 14:35
11I0632	GRO Cal 0.2ppm	1I26927-CAL2	004F0401.D	09/23/11 15:15
11I0633	GRO Cal 0.5ppm	1I26927-CAL3	005F0501.D	09/23/11 15:55
11I0634	GRO Cal 1.0ppm	1I26927-CAL4	006F0601.D	09/23/11 16:34
11I0635	GRO Cal 2.0ppm	1I26927-CAL5	007F0701.D	09/23/11 17:14
11I0636	GRO Cal 5.0ppm	1I26927-CAL6	008F0801.D	09/23/11 17:53

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1269006	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	9/23/11_14:35	9/23/11_17:53

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
Gasoline Range Organics (C6-C10	0.1	3188740	0.2	2712460	0.5	1411068	1	1373003	2	1322475	5	1275322
Bromofluorobenzene	0.01	1718300	0.02	1371850	0.05	1001380	0.1	1121160	0.2	1130485	0.5	912802

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1269006	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	9/23/11 14:35	9/23/11 17:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1880511	44.8658	7.793	1.770253E-02	0.9990881		0.995	
Bromofluorobenzene	1209330	24.26723	20.268	1.370141E-02		0.9988025	0.99	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	009F0901.D	Calibration Date:	09/23/11 14:35
Sequence:	1I26927	Injection Date:	09/23/11
Lab Sample ID:	1I26927-ICV1	Injection Time:	18:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4798	1880511	1545794		-4.0	20
Bromofluorobenzene	Q	0.05000	0.05264	1209330	1283600		5.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	003F0301.D	Calibration Date:	09/23/11 14:35
Sequence:	1K33304	Injection Date:	11/22/11
Lab Sample ID:	1K33304-CCV1	Injection Time:	16:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5057	1880511	1609848		1.1	20
Bromofluorobenzene	Q	0.05000	0.05460	1209330	1331540		9.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	018F1801.D	Calibration Date:	09/23/11 14:35
Sequence:	1K33304	Injection Date:	11/23/11
Lab Sample ID:	1K33304-CCV2	Injection Time:	02:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4648	1880511	1508528		-7.0	20
Bromofluorobenzene	Q	0.05000	0.03608	1209330	869560		-27.8	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	025F2501.D	Calibration Date:	09/23/11 14:35
Sequence:	1K33304	Injection Date:	11/23/11
Lab Sample ID:	1K33304-CCV3	Injection Time:	06:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4254	1880511	1410990		-14.9	20
Bromofluorobenzene	Q	0.05000	0.03815	1209330	922380		-23.7	20 *

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33304	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K33304-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/22/11 16:14		
Bromofluorobenzene	0.05000	109	80 - 120	20.273	20.273	0.0000	+/-0.210	
LCS (1K22002-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/22/11 16:54		
Bromofluorobenzene	0.05000	107	50 - 150	20.273	20.273	0.0000	+/-0.210	
Blank (1K22002-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/22/11 17:34		
Bromofluorobenzene	0.05000	106	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0289 (1111148-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 11/22/11 19:35		
Bromofluorobenzene	0.05000	87.3	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0290 (1111148-05) mg/L				Lab File ID: 009F0901.D		Analyzed: 11/22/11 20:14		
Bromofluorobenzene	0.05000	89.0	50 - 150	20.273	20.273	0.0000	+/-0.210	
GW0331 (1111148-07) mg/L				Lab File ID: 010F1001.D		Analyzed: 11/22/11 20:54		
Bromofluorobenzene	0.05000	88.7	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0332 (1111148-09) mg/L				Lab File ID: 011F1101.D		Analyzed: 11/22/11 21:34		
Bromofluorobenzene	0.05000	88.3	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0352 (1111148-11) mg/L				Lab File ID: 012F1201.D		Analyzed: 11/22/11 22:13		
Bromofluorobenzene	0.05000	105	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0288 (1111162-01) mg/L				Lab File ID: 013F1301.D		Analyzed: 11/22/11 22:52		
Bromofluorobenzene	0.05000	86.4	50 - 150	20.28	20.273	0.0070	+/-0.210	
GW0344 (1111162-03) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/22/11 23:31		
Bromofluorobenzene	0.05000	97.7	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0250 (1111148-01) mg/L				Lab File ID: 015F1501.D		Analyzed: 11/23/11 00:11		
Bromofluorobenzene	0.05000	84.9	50 - 150	20.276	20.273	0.0030	+/-0.210	
Matrix Spike (1K22002-MS1) mg/L				Lab File ID: 016F1601.D		Analyzed: 11/23/11 00:51		
Bromofluorobenzene	0.05000	65.0	50 - 150	20.276	20.273	0.0030	+/-0.210	
Matrix Spike Dup (1K22002-MSD1) mg/L				Lab File ID: 017F1701.D		Analyzed: 11/23/11 01:30		
Bromofluorobenzene	0.05000	62.2	50 - 150	20.276	20.273	0.0030	+/-0.210	
Calibration Check (1K33304-CCV2) ug/mL				Lab File ID: 018F1801.D		Analyzed: 11/23/11 02:09		
Bromofluorobenzene	0.05000	72.2	80 - 120	20.276	20.273	0.0030	+/-0.210	*
GW0345 (1111162-05) mg/L				Lab File ID: 019F1901.D		Analyzed: 11/23/11 02:49		
Bromofluorobenzene	0.05000	85.8	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0351 (1111162-07) mg/L				Lab File ID: 020F2001.D		Analyzed: 11/23/11 03:28		
Bromofluorobenzene	0.05000	94.1	50 - 150	20.276	20.273	0.0030	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33304	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0274 (1111177-01) mg/L				Lab File ID: 021F2101.D		Analyzed: 11/23/11 04:08		
Bromofluorobenzene	0.05000	77.4	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0275 (1111177-03) mg/L				Lab File ID: 022F2201.D		Analyzed: 11/23/11 04:47		
Bromofluorobenzene	0.05000	79.3	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0346 (1111177-05) mg/L				Lab File ID: 023F2301.D		Analyzed: 11/23/11 05:27		
Bromofluorobenzene	0.05000	78.6	50 - 150	20.276	20.273	0.0030	+/-0.210	
GW0353 (1111177-07) mg/L				Lab File ID: 024F2401.D		Analyzed: 11/23/11 06:06		
Bromofluorobenzene	0.05000	93.1	50 - 150	20.273	20.273	0.0000	+/-0.210	
Calibration Check (1K33304-CCV3) ug/mL				Lab File ID: 025F2501.D		Analyzed: 11/23/11 06:46		
Bromofluorobenzene	0.05000	76.3	80 - 120	20.273	20.273	0.0000	+/-0.210	*

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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
GW0250	11/15/11 09:41	11/16/11 08:20	11/22/11 06:35	N/A	14.00	11/23/11 00:11	7.56	14.00	
GW0289	11/15/11 13:29	11/16/11 08:20	11/22/11 06:35	N/A	14.00	11/22/11 19:35	7.21	14.00	
GW0290	11/15/11 10:58	11/16/11 08:20	11/22/11 06:35	N/A	14.00	11/22/11 20:14	7.34	14.00	
GW0331	11/14/11 16:18	11/16/11 08:20	11/22/11 06:35	N/A	14.00	11/22/11 20:54	8.15	14.00	
GW0332	11/14/11 13:39	11/16/11 08:20	11/22/11 06:35	N/A	14.00	11/22/11 21:34	8.29	14.00	
GW0352	11/15/11 13:31	11/16/11 08:20	11/22/11 06:35	N/A	14.00	11/22/11 22:13	7.32	14.00	
GW0288	11/15/11 15:44	11/17/11 08:30	11/22/11 06:35	N/A	14.00	11/22/11 22:52	7.26	14.00	
GW0344	11/16/11 10:21	11/17/11 08:30	11/22/11 06:35	N/A	14.00	11/22/11 23:31	6.51	14.00	
GW0345	11/16/11 13:08	11/17/11 08:30	11/22/11 06:35	N/A	14.00	11/23/11 02:49	6.53	14.00	
GW0351	11/16/11 10:23	11/17/11 08:30	11/22/11 06:35	N/A	14.00	11/23/11 03:28	6.67	14.00	
GW0274	11/17/11 11:11	11/18/11 08:20	11/22/11 06:35	N/A	14.00	11/23/11 04:08	5.66	14.00	
GW0275	11/17/11 11:11	11/18/11 08:20	11/22/11 06:35	N/A	14.00	11/23/11 04:47	5.69	14.00	
GW0346	11/17/11 11:43	11/18/11 08:20	11/22/11 06:35	N/A	14.00	11/23/11 05:27	5.70	14.00	
GW0353	11/16/11 14:53	11/18/11 08:20	11/22/11 06:35	N/A	14.00	11/23/11 06:06	6.59	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K22002-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	11/22/11 17:34
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 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	0.05287	106	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1K22002-BS1
File ID: 004F0401.D
Sampled:
Prepared:
Analyzed: 11/22/11 16:54
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1K22002
Sequence: 1K33304
Calibration: 1269006
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5065	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05329	107	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K22002-MS1	File ID:	016F1601.D
Sampled:		Prepared:		Analyzed:	11/23/11 00:51
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4832	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03248	65.0	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1K22002-MSD1	File ID:	017F1701.D
Sampled:		Prepared:		Analyzed:	11/23/11 01:30
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1K22002 Sequence: 1K33304 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4632	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03112	62.2	50 - 150	Y

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K31508	Instrument:	GL-GCFID2
Calibration:	1315002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1K31508-CAL6	003F0301.D	11/10/11 19:58
Cal Standard	1K31508-CAL5	004F0401.D	11/10/11 20:30
Cal Standard	1K31508-CAL4	005F0501.D	11/10/11 21:03
Cal Standard	1K31508-CAL3	006F0601.D	11/10/11 21:36
Cal Standard	1K31508-CAL2	007F0701.D	11/10/11 22:08
Cal Standard	1K31508-CAL1	008F0801.D	11/10/11 22:41
Initial Cal Check	1K31508-ICV1	009F0901.D	11/10/11 23:14

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32214	Instrument:	GL-GCFID2
Calibration:	1315002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1K32214-CCV1	003F0301.D	11/17/11 15:12
Calibration Check	1K32214-CCV2	010F1001.D	11/17/11 19:03
Blank	1K17002-BLK1	011F1101.D	11/17/11 19:36
LCS	1K17002-BS1	012F1201.D	11/17/11 20:09
LCS Dup	1K17002-BSD1	013F1301.D	11/17/11 20:41
GW0250	1111148-01	014F1401.D	11/17/11 21:14
GW0289	1111148-03	015F1501.D	11/17/11 21:47
GW0290	1111148-05	016F1601.D	11/17/11 22:20
GW0331	1111148-07	017F1701.D	11/17/11 22:52
GW0332	1111148-09	018F1801.D	11/17/11 23:25
GW0352	1111148-11	019F1901.D	11/17/11 23:58
GW0288	1111162-01	020F2001.D	11/18/11 00:31
GW0344	1111162-03	021F2101.D	11/18/11 01:04
GW0345	1111162-05	022F2201.D	11/18/11 01:37
GW0351	1111162-07	023F2301.D	11/18/11 02:10
Calibration Check	1K32214-CCV3	024F2401.D	11/18/11 02:43

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33409	Instrument:	GL-GCFID2
Calibration:	1315002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1K33409-CCV1	029F3101.D	11/29/11 11:05
Blank	1K21022-BLK1	033F3501.D	11/29/11 13:17
LCS	1K21022-BS1	034F3601.D	11/29/11 13:50
LCS Dup	1K21022-BSD1	035F3701.D	11/29/11 14:23
GW0274	1111177-01	036F3801.D	11/29/11 14:56
GW0275	1111177-03	037F3901.D	11/29/11 15:29
GW0346	1111177-05	038F4001.D	11/29/11 16:02
GW0353	1111177-07	039F4101.D	11/29/11 16:35
Calibration Check	1K33409-CCV2	046F4801.D	11/29/11 20:25

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	014F1401.D
Sampled:	11/15/11 09:41	Prepared:	11/17/11 12:00	Analyzed:	11/17/11 21:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01440	73.5	30 - 140	

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	015F1501.D
Sampled:	11/15/11 13:29	Prepared:	11/17/11 12:00	Analyzed:	11/17/11 21:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01515	78.8	30 - 140	

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	016F1601.D
Sampled:	11/15/11 10:58	Prepared:	11/17/11 12:00	Analyzed:	11/17/11 22:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01568	81.5	30 - 140	

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	017F1701.D
Sampled:	11/14/11 16:18	Prepared:	11/17/11 12:00	Analyzed:	11/17/11 22:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01616	85.7	30 - 140	

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	018F1801.D
Sampled:	11/14/11 13:39	Prepared:	11/17/11 12:00	Analyzed:	11/17/11 23:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01503	79.6	30 - 140	

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	019F1901.D
Sampled:	11/15/11 13:31	Prepared:	11/17/11 12:00	Analyzed:	11/17/11 23:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	3.18	0.0962	0.0962	0.0962	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01762	91.6	30 - 140	

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	020F2001.D
Sampled:	11/15/11 15:44	Prepared:	11/17/11 12:00	Analyzed:	11/18/11 00:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01701	88.5	30 - 140	

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	021F2101.D
Sampled:	11/16/11 10:21	Prepared:	11/17/11 12:00	Analyzed:	11/18/11 01:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.88	0.0980	0.0980	0.0980	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01887	96.2	30 - 140	

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	022F2201.D
Sampled:	11/16/11 13:08	Prepared:	11/17/11 12:00	Analyzed:	11/18/11 01:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.672	0.0980	0.0980	0.0980	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01676	85.5	30 - 140	

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	023F2301.D
Sampled:	11/16/11 10:23	Prepared:	11/17/11 12:00	Analyzed:	11/18/11 02:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K17002 Sequence: 1K32214 Calibration: 1315002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.72	0.0935	0.0935	0.0935	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01874	100	30 - 140	

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	036F3801.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 10:29	Analyzed:	11/29/11 14:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21022 Sequence: 1K33409 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01660	88.0	30 - 140	

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	037F3901.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 10:29	Analyzed:	11/29/11 15:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21022 Sequence: 1K33409 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01464	76.1	30 - 140	

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	038F4001.D
Sampled:	11/17/11 11:43	Prepared:	11/22/11 10:29	Analyzed:	11/29/11 16:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21022 Sequence: 1K33409 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01351	71.6	30 - 140	

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	039F4101.D
Sampled:	11/16/11 14:53	Prepared:	11/22/11 10:29	Analyzed:	11/29/11 16:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1K21022 Sequence: 1K33409 Calibration: 1315002 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01382	73.2	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K17002	Laboratory ID:	1K17002-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	0.6642	66.4	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	0.6421	64.2	3.38	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K21022	Laboratory ID:	1K21022-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	0.6701	67.0	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	0.7644	76.4	13.2	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K17002 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/17/11 12:00	1,020.00	1.00
GW0289	1111148-03	11/17/11 12:00	1,040.00	1.00
GW0290	1111148-05	11/17/11 12:00	1,040.00	1.00
GW0331	1111148-07	11/17/11 12:00	1,060.00	1.00
GW0332	1111148-09	11/17/11 12:00	1,060.00	1.00
GW0352	1111148-11	11/17/11 12:00	1,040.00	1.00
GW0288	1111162-01	11/17/11 12:00	1,040.00	1.00
GW0344	1111162-03	11/17/11 12:00	1,020.00	1.00
GW0345	1111162-05	11/17/11 12:00	1,020.00	1.00
GW0351	1111162-07	11/17/11 12:00	1,070.00	1.00
Blank	1K17002-BLK1	11/17/11 12:00	1,000.00	1.00
LCS	1K17002-BS1	11/17/11 12:00	1,000.00	1.00
LCS Dup	1K17002-BSD1	11/17/11 12:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K21022 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0274	1111177-01	11/22/11 10:29	1,060.00	1.00
GW0275	1111177-03	11/22/11 10:29	1,040.00	1.00
GW0346	1111177-05	11/22/11 10:29	1,060.00	1.00
GW0353	1111177-07	11/22/11 10:29	1,060.00	1.00
Blank	1K21022-BLK1	11/22/11 10:29	1,000.00	1.00
LCS	1K21022-BS1	11/22/11 10:29	1,000.00	1.00
LCS Dup	1K21022-BSD1	11/22/11 10:29	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K31508	Instrument:	GL-GCFID2
Calibration:	1315002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11K0386	DRO ICAL6@100ppm	1K31508-CAL6	003F0301.D	11/10/11 19:58
11K0385	DRO ICAL5@250ppm	1K31508-CAL5	004F0401.D	11/10/11 20:30
11K0384	DRO ICAL4@500ppm	1K31508-CAL4	005F0501.D	11/10/11 21:03
11K0383	DRO ICAL3@1000ppm	1K31508-CAL3	006F0601.D	11/10/11 21:36
11K0382	DRO ICAL2@2500ppm	1K31508-CAL2	007F0701.D	11/10/11 22:08
11K0381	DRO ICAL1@5000ppm	1K31508-CAL1	008F0801.D	11/10/11 22:41

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1315002	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/10/11 19:58	11/10/11 22:41

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	2041.668	2500	2487.361	1000	2021.6	500	1989.968	250	1823.312	100	1765.79
o-Terphenyl	250	2634.252	125	2602.872	50	2494.1	25	2539.72	12.5	2487.2	5	2510.4

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1315002	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/10/11 19:58	11/10/11 22:41

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2021.616	12.5742	6.073	6.719313E-03			20	
o-Terphenyl	2544.757	2.388465	11.16483	0.2714372			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1315002
Lab File ID:	009F0901.D	Calibration Date:	11/10/11 14:57
Sequence:	1K31508	Injection Date:	11/10/11
Lab Sample ID:	1K31508-ICV1	Injection Time:	23:14

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1195	2021.616	2416.736		19.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1315002
Lab File ID:	003F0301.D	Calibration Date:	11/10/11 14:57
Sequence:	1K32214	Injection Date:	11/17/11
Lab Sample ID:	1K32214-CCV1	Injection Time:	15:12

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1071	2021.616	2164.868		7.1	20
o-Terphenyl	A	50.00	53.78	2544.757	2737.18		7.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1315002
Lab File ID:	010F1001.D	Calibration Date:	11/10/11 14:57
Sequence:	1K32214	Injection Date:	11/17/11
Lab Sample ID:	1K32214-CCV2	Injection Time:	19:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1048	2021.616	2118.44		4.8	20
o-Terphenyl	A	50.00	53.21	2544.757	2708.16		6.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1315002
Lab File ID:	024F2401.D	Calibration Date:	11/10/11 14:57
Sequence:	1K32214	Injection Date:	11/18/11
Lab Sample ID:	1K32214-CCV3	Injection Time:	02:43

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1055	2021.616	2133.054		5.5	20
o-Terphenyl	A	50.00	53.16	2544.757	2705.7		6.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1315002
Lab File ID:	029F3101.D	Calibration Date:	11/10/11 14:57
Sequence:	1K33409	Injection Date:	11/29/11
Lab Sample ID:	1K33409-CCV1	Injection Time:	11:05

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1054	2021.616	2131.796		5.5	20
o-Terphenyl	A	50.00	48.89	2544.757	2488.3		-2.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1315002
Lab File ID:	046F4801.D	Calibration Date:	11/10/11 14:57
Sequence:	1K33409	Injection Date:	11/29/11
Lab Sample ID:	1K33409-CCV2	Injection Time:	20:25

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	995.4	2021.616	2012.328		-0.5	20
o-Terphenyl	A	50.00	46.76	2544.757	2379.76		-6.5	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K32214	Instrument:	GL-GCFID2
		Calibration:	1315002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K32214-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 11/17/11 15:12		
o-Terphenyl	50.00	108	80 - 120	11.133	11.133	0.0000	+/-0.050	
Calibration Check (1K32214-CCV2) mg/L				Lab File ID: 010F1001.D		Analyzed: 11/17/11 19:03		
o-Terphenyl	50.00	106	80 - 120	11.126	11.133	-0.0070	+/-0.050	
Blank (1K17002-BLK1) mg/L				Lab File ID: 011F1101.D		Analyzed: 11/17/11 19:36		
o-Terphenyl	0.02000	97.8	30 - 140	11.13	11.133	-0.0030	+/-0.050	
LCS (1K17002-BS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 11/17/11 20:09		
o-Terphenyl	0.02000	74.7	30 - 140	11.133	11.133	0.0000	+/-0.050	
LCS Dup (1K17002-BSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 11/17/11 20:41		
o-Terphenyl	0.02000	70.0	30 - 140	11.13	11.133	-0.0030	+/-0.050	
GW0250 (1111148-01) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/17/11 21:14		
o-Terphenyl	0.01961	73.5	30 - 140	11.133	11.133	0.0000	+/-0.050	
GW0289 (1111148-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 11/17/11 21:47		
o-Terphenyl	0.01923	78.8	30 - 140	11.123	11.133	-0.0100	+/-0.050	
GW0290 (1111148-05) mg/L				Lab File ID: 016F1601.D		Analyzed: 11/17/11 22:20		
o-Terphenyl	0.01923	81.5	30 - 140	11.12	11.133	-0.0130	+/-0.050	
GW0331 (1111148-07) mg/L				Lab File ID: 017F1701.D		Analyzed: 11/17/11 22:52		
o-Terphenyl	0.01887	85.7	30 - 140	11.113	11.133	-0.0200	+/-0.050	
GW0332 (1111148-09) mg/L				Lab File ID: 018F1801.D		Analyzed: 11/17/11 23:25		
o-Terphenyl	0.01887	79.6	30 - 140	11.123	11.133	-0.0100	+/-0.050	
GW0352 (1111148-11) mg/L				Lab File ID: 019F1901.D		Analyzed: 11/17/11 23:58		
o-Terphenyl	0.01923	91.6	30 - 140	11.113	11.133	-0.0200	+/-0.050	
GW0288 (1111162-01) mg/L				Lab File ID: 020F2001.D		Analyzed: 11/18/11 00:31		
o-Terphenyl	0.01923	88.5	30 - 140	11.11	11.133	-0.0230	+/-0.050	
GW0344 (1111162-03) mg/L				Lab File ID: 021F2101.D		Analyzed: 11/18/11 01:04		
o-Terphenyl	0.01961	96.2	30 - 140	11.113	11.133	-0.0200	+/-0.050	
GW0345 (1111162-05) mg/L				Lab File ID: 022F2201.D		Analyzed: 11/18/11 01:37		
o-Terphenyl	0.01961	85.5	30 - 140	11.103	11.133	-0.0300	+/-0.050	
GW0351 (1111162-07) mg/L				Lab File ID: 023F2301.D		Analyzed: 11/18/11 02:10		
o-Terphenyl	0.01869	100	30 - 140	11.106	11.133	-0.0270	+/-0.050	
Calibration Check (1K32214-CCV3) mg/L				Lab File ID: 024F2401.D		Analyzed: 11/18/11 02:43		
o-Terphenyl	50.00	106	80 - 120	11.103	11.133	-0.0300	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33409	Instrument:	GL-GCFID2
		Calibration:	1315002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1K33409-CCV1) mg/L				Lab File ID: 029F3101.D		Analyzed: 11/29/11 11:05		
o-Terphenyl	50.00	97.8	80 - 120	11.12	11.12	0.0000	+/-0.050	
Blank (1K21022-BLK1) mg/L				Lab File ID: 033F3501.D		Analyzed: 11/29/11 13:17		
o-Terphenyl	0.02000	81.7	30 - 140	11.133	11.12	0.0130	+/-0.050	
LCS (1K21022-BS1) mg/L				Lab File ID: 034F3601.D		Analyzed: 11/29/11 13:50		
o-Terphenyl	0.02000	75.0	30 - 140	11.116	11.12	-0.0040	+/-0.050	
LCS Dup (1K21022-BSD1) mg/L				Lab File ID: 035F3701.D		Analyzed: 11/29/11 14:23		
o-Terphenyl	0.02000	82.0	30 - 140	11.113	11.12	-0.0070	+/-0.050	
GW0274 (1111177-01) mg/L				Lab File ID: 036F3801.D		Analyzed: 11/29/11 14:56		
o-Terphenyl	0.01887	88.0	30 - 140	11.126	11.12	0.0060	+/-0.050	
GW0275 (1111177-03) mg/L				Lab File ID: 037F3901.D		Analyzed: 11/29/11 15:29		
o-Terphenyl	0.01923	76.1	30 - 140	11.143	11.12	0.0230	+/-0.050	
GW0346 (1111177-05) mg/L				Lab File ID: 038F4001.D		Analyzed: 11/29/11 16:02		
o-Terphenyl	0.01887	71.6	30 - 140	11.15	11.12	0.0300	+/-0.050	
GW0353 (1111177-07) mg/L				Lab File ID: 039F4101.D		Analyzed: 11/29/11 16:35		
o-Terphenyl	0.01887	73.2	30 - 140	11.15	11.12	0.0300	+/-0.050	
Calibration Check (1K33409-CCV2) mg/L				Lab File ID: 046F4801.D		Analyzed: 11/29/11 20:25		
o-Terphenyl	50.00	93.5	80 - 120	11.1	11.12	-0.0200	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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
GW0250	11/15/11 09:41	11/16/11 08:20	11/17/11 12:00	2.05	7.00	11/17/11 21:14	0.38	40.00	
GW0289	11/15/11 13:29	11/16/11 08:20	11/17/11 12:00	1.90	7.00	11/17/11 21:47	0.41	40.00	
GW0290	11/15/11 10:58	11/16/11 08:20	11/17/11 12:00	2.00	7.00	11/17/11 22:20	0.43	40.00	
GW0331	11/14/11 16:18	11/16/11 08:20	11/17/11 12:00	2.78	7.00	11/17/11 22:52	0.45	40.00	
GW0332	11/14/11 13:39	11/16/11 08:20	11/17/11 12:00	2.89	7.00	11/17/11 23:25	0.48	40.00	
GW0352	11/15/11 13:31	11/16/11 08:20	11/17/11 12:00	1.90	7.00	11/17/11 23:58	0.50	40.00	
GW0288	11/15/11 15:44	11/17/11 08:30	11/17/11 12:00	1.80	7.00	11/18/11 00:31	0.52	40.00	
GW0344	11/16/11 10:21	11/17/11 08:30	11/17/11 12:00	1.03	7.00	11/18/11 01:04	0.54	40.00	
GW0345	11/16/11 13:08	11/17/11 08:30	11/17/11 12:00	0.91	7.00	11/18/11 01:37	0.57	40.00	
GW0351	11/16/11 10:23	11/17/11 08:30	11/17/11 12:00	1.03	7.00	11/18/11 02:10	0.59	40.00	
GW0274	11/17/11 11:11	11/18/11 08:20	11/22/11 10:29	4.93	7.00	11/29/11 14:56	7.19	40.00	
GW0275	11/17/11 11:11	11/18/11 08:20	11/22/11 10:29	4.93	7.00	11/29/11 15:29	7.21	40.00	
GW0346	11/17/11 11:43	11/18/11 08:20	11/22/11 10:29	4.91	7.00	11/29/11 16:02	7.23	40.00	
GW0353	11/16/11 14:53	11/18/11 08:20	11/22/11 10:29	5.78	7.00	11/29/11 16:35	7.25	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1K17002-BLK1	File ID:	011F1101.D
Sampled:		Prepared:		Analyzed:	11/17/11 19:36
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1K17002	Sequence:	1K32214	Calibration:	1315002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01956	97.8	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1K17002-BS1	File ID:	012F1201.D
Sampled:		Prepared:		Analyzed:	11/17/11 20:09
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1K17002	Sequence:	1K32214	Calibration:	1315002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6642	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01493	74.7	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1K17002-BSD1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	11/17/11 20:41
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1K17002	Sequence:	1K32214	Calibration:	1315002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6421	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01401	70.0	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1K21022-BLK1	File ID:	033F3501.D
Sampled:		Prepared:		Analyzed:	11/29/11 13:17
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1K21022	Sequence:	1K33409	Calibration:	1315002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01634	81.7	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1K21022-BS1	File ID:	034F3601.D
Sampled:		Prepared:		Analyzed:	11/29/11 13:50
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1K21022	Sequence:	1K33409	Calibration:	1315002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6701	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01500	75.0	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K21022-BSD1	File ID:	035F3701.D
Sampled:		Prepared:		Analyzed:	11/29/11 14:23
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1K21022 Sequence: 1K33409 Calibration: 1315002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7644	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01640	82.0	30 - 140	

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K31403	Instrument:	GL-ECD2
Calibration:	1314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1K31403-CAL1	002R0101.D	11/07/11 11:19
Cal Standard	1K31403-CAL1	002F0101.D	11/07/11 11:19
Cal Standard	1K31403-CAL2	003F0101.D	11/07/11 11:40
Cal Standard	1K31403-CAL2	003R0101.D	11/07/11 11:40
Cal Standard	1K31403-CAL3	004F0101.D	11/07/11 12:02
Cal Standard	1K31403-CAL3	004R0101.D	11/07/11 12:02
Cal Standard	1K31403-CAL4	005R0101.D	11/07/11 12:24
Cal Standard	1K31403-CAL4	005F0101.D	11/07/11 12:24
Cal Standard	1K31403-CAL5	006R0101.D	11/07/11 12:46
Cal Standard	1K31403-CAL5	006F0101.D	11/07/11 12:46
Cal Standard	1K31403-CAL6	007F0101.D	11/07/11 13:07
Cal Standard	1K31403-CAL6	007R0101.D	11/07/11 13:07
Cal Standard	1K31403-CAL7	008F0101.D	11/07/11 13:29
Cal Standard	1K31403-CAL7	008R0101.D	11/07/11 13:29
Cal Standard	1K31403-CAL8	009F0101.D	11/07/11 13:51
Cal Standard	1K31403-CAL8	009R0101.D	11/07/11 13:51
Initial Cal Check	1K31403-ICV1	010R0101.D	11/07/11 14:12
Initial Cal Check	1K31403-ICV1	010F0101.D	11/07/11 14:12

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33801	Instrument:	GL-ECD2
Calibration:	1314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L33801-CCV1	002R0101.D	11/22/11 15:13
Calibration Check	1L33801-CCV1	002F0101.D	11/22/11 15:13
Blank	1K22001-BLK1	003R0101.D	11/22/11 15:34
LCS	1K22001-BS1	004F0101.D	11/22/11 15:55
LCS	1K22001-BS1	004R0101.D	11/22/11 15:55
LCS Dup	1K22001-BSD1	005R0101.D	11/22/11 16:16
LCS Dup	1K22001-BSD1	005F0101.D	11/22/11 16:16
GW0250	1111148-01	006F0101.D	11/22/11 16:38
GW0289	1111148-03	007R0101.D	11/22/11 16:59
GW0289	1111148-03	007F0101.D	11/22/11 16:59
GW0290	1111148-05	008F0101.D	11/22/11 17:20
GW0290	1111148-05	008R0101.D	11/22/11 17:20
GW0331	1111148-07	009R0101.D	11/22/11 17:41
GW0331	1111148-07	009F0101.D	11/22/11 17:41
GW0332	1111148-09	010R0101.D	11/22/11 18:03
GW0352	1111148-11	011F0101.D	11/22/11 18:24
GW0352	1111148-11	011R0101.D	11/22/11 18:24
GW0288	1111162-01	012R0101.D	11/22/11 18:45
GW0288	1111162-01	012F0101.D	11/22/11 18:45
GW0344	1111162-03	013R0101.D	11/22/11 19:07
GW0344	1111162-03	013F0101.D	11/22/11 19:07
GW0345	1111162-05	014R0101.D	11/22/11 19:28
GW0345	1111162-05	014F0101.D	11/22/11 19:28
GW0351	1111162-07	015R0101.D	11/22/11 19:49
Calibration Check	1L33801-CCV2	016F0101.D	11/22/11 20:11
Calibration Check	1L33801-CCV2	016R0101.D	11/22/11 20:11
GW0274	1111177-01	017R0101.D	11/22/11 20:32
GW0275	1111177-03	018F0101.D	11/22/11 20:54
GW0346	1111177-05	019R0101.D	11/22/11 21:15
GW0353	1111177-07	020R0101.D	11/22/11 21:36
Calibration Check	1L33801-CCV3	021R0101.D	11/22/11 21:57
Calibration Check	1L33801-CCV3	021F0101.D	11/22/11 21:57

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-01	File ID:	006F0101.D
Sampled:	11/15/11 09:41	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 16:38
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00934	0.0187	0.0280	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03	File ID:	007F0101.D
Sampled:	11/15/11 13:29	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 16:59
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.277	0.00947	0.0189	0.0284	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05	File ID:	008F0101.D
Sampled:	11/15/11 10:58	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 17:20
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.241	0.00929	0.0186	0.0279	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07	File ID:	009F0101.D
Sampled:	11/14/11 16:18	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 17:41
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.0531	0.00942	0.0188	0.0283	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09	File ID:	010R0101.D
Sampled:	11/14/11 13:39	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 18:03
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00916	0.0183	0.0275	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11	File ID:	011F0101.D
Sampled:	11/15/11 13:31	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 18:24
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.146	0.00938	0.0188	0.0281	P

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01	File ID:	012F0101.D
Sampled:	11/15/11 15:44	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 18:45
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.430	0.00924	0.0185	0.0277	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03	File ID:	013R0101.D
Sampled:	11/16/11 10:21	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 19:07
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0387	0.00927	0.0185	0.0278	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05	File ID:	014F0101.D
Sampled:	11/16/11 13:08	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 19:28
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.552	0.00924	0.0185	0.0277	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07	File ID:	015R0101.D
Sampled:	11/16/11 10:23	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 19:49
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00936	0.0187	0.0281	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01	File ID:	017R0101.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 20:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00929	0.0186	0.0279	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03	File ID:	018F0101.D
Sampled:	11/17/11 11:11	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 20:54
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00931	0.0186	0.0279	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05	File ID:	019R0101.D
Sampled:	11/17/11 11:43	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 21:15
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00927	0.0185	0.0278	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07	File ID:	020R0101.D
Sampled:	11/16/11 14:53	Prepared:	11/22/11 06:32	Analyzed:	11/22/11 21:36
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00930	0.0186	0.0279	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K22001	Laboratory ID:	1K22001-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	0.4256	85.1	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.3960	79.2	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	0.4448	89.0	4.40	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4100	82.0	3.46	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K22001 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/22/11 06:32	37.49	35.00
GW0289	1111148-03	11/22/11 06:32	36.95	35.00
GW0290	1111148-05	11/22/11 06:32	37.66	35.00
GW0331	1111148-07	11/22/11 06:32	37.15	35.00
GW0332	1111148-09	11/22/11 06:32	38.20	35.00
GW0352	1111148-11	11/22/11 06:32	37.33	35.00
GW0288	1111162-01	11/22/11 06:32	37.87	35.00
GW0344	1111162-03	11/22/11 06:32	37.75	35.00
GW0345	1111162-05	11/22/11 06:32	37.88	35.00
GW0351	1111162-07	11/22/11 06:32	37.38	35.00
GW0274	1111177-01	11/22/11 06:32	37.66	35.00
GW0275	1111177-03	11/22/11 06:32	37.61	35.00
GW0346	1111177-05	11/22/11 06:32	37.76	35.00
GW0353	1111177-07	11/22/11 06:32	37.65	35.00
Blank	1K22001-BLK1	11/22/11 06:32	35.00	35.00
LCS	1K22001-BS1	11/22/11 06:32	35.00	35.00
LCS Dup	1K22001-BSD1	11/22/11 06:32	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K22001-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	11/22/11 06:32	Analyzed:	11/22/11 15:34
Solids:		Preparation:	EDB	Dilution:	

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K31403	Instrument:	GL-ECD2
Calibration:	1314001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11K0184	EDB ICAL 1 (0.03ppb)	1K31403-CAL1	002R0101.D	11/07/11 11:19
11K0184	EDB ICAL 1 (0.03ppb)	1K31403-CAL1	002F0101.D	11/07/11 11:19
11K0188	EDB ICAL 2 (0.05ppb)	1K31403-CAL2	003F0101.D	11/07/11 11:40
11K0188	EDB ICAL 2 (0.05ppb)	1K31403-CAL2	003R0101.D	11/07/11 11:40
11K0189	EDB ICAL 3 (0.10ppb)	1K31403-CAL3	004F0101.D	11/07/11 12:02
11K0189	EDB ICAL 3 (0.10ppb)	1K31403-CAL3	004R0101.D	11/07/11 12:02
11K0190	EDB ICAL 4 (0.15ppb)	1K31403-CAL4	005R0101.D	11/07/11 12:24
11K0190	EDB ICAL 4 (0.15ppb)	1K31403-CAL4	005F0101.D	11/07/11 12:24
11K0191	EDB ICAL 5 (0.2ppb)	1K31403-CAL5	006R0101.D	11/07/11 12:46
11K0191	EDB ICAL 5 (0.2ppb)	1K31403-CAL5	006F0101.D	11/07/11 12:46
11K0193	EDB ICAL 6 (0.4ppb)	1K31403-CAL6	007F0101.D	11/07/11 13:07
11K0193	EDB ICAL 6 (0.4ppb)	1K31403-CAL6	007R0101.D	11/07/11 13:07
11K0194	EDB ICAL 7 (0.5ppb)	1K31403-CAL7	008F0101.D	11/07/11 13:29
11K0194	EDB ICAL 7 (0.5ppb)	1K31403-CAL7	008R0101.D	11/07/11 13:29
11K0195	EDB ICAL 8 (1.0ppb)	1K31403-CAL8	009R0101.D	11/07/11 13:51
11K0195	EDB ICAL 8 (1.0ppb)	1K31403-CAL8	009F0101.D	11/07/11 13:51

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1314001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	11/7/11_11:19	11/7/11_13:51

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	38668	0.5	45114	0.4	48535	0.2	59765	0.15	74380	0.1	82230
1,2-Dibromoethane [2C]	1	34398	0.5	36908	0.4	36665	0.2	38375	0.15	42040	0.1	43960
1,2-Dibromo-3-chloropropane	1	52876	0.5	62964	0.4	65760	0.2	78440	0.15	90106.66	0.1	97370
1,2-Dibromo-3-chloropropane [2C]	1	64801	0.5	69550	0.4	71752.5	0.2	83155	0.15	92153.34	0.1	103400

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1314001	Instrument:	GL-ECD2
Matrix:	Water	Calibration Dates:	11/7/11 11:19 11/7/11 13:51

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	124780	0.03	170133.3								
1,2-Dibromoethane [2C]	0.05	45540	0.03	53566.67								
1,2-Dibromo-3-chloropropane	0.05	124440	0.03	150500								
1,2-Dibromo-3-chloropropane [2C]	0.05	136940	0.03	168066.7								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1314001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	11/7/11 11:19	11/7/11 13:51

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	80450.67	56.55116	2.405875	0.1966167		0.9989625	0.995	
1,2-Dibromoethane [2C]	41431.58	15.07027	2.274375	0.2028472	0.9989821		0.995	
1,2-Dibromo-3-chloropropane	90307.08	36.79823	8.491875	1.518922E-02		0.9996701	0.995	
1,2-Dibromo-3-chloropropane [2C]	98727.31	36.93066	8.6815	2.705922E-02	0.9994625		0.995	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1314001
Lab File ID:	010F0101.D	Calibration Date:	11/07/11 11:19
Sequence:	1K31403	Injection Date:	11/07/11
Lab Sample ID:	1K31403-ICV1	Injection Time:	14:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4250	80450.67	40618		-15.0	20
1,2-Dibromoethane [2C]	L	0.5000	0.4247	41431.58	30640		-15.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1314001
Lab File ID:	002F0101.D	Calibration Date:	11/07/11 11:19
Sequence:	1L33801	Injection Date:	11/22/11
Lab Sample ID:	1L33801-CCV1	Injection Time:	15:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4952	80450.67	45444		-1.0	20
1,2-Dibromoethane [2C]	L	0.5000	0.4361	41431.58	31414		-12.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1314001
Lab File ID:	016F0101.D	Calibration Date:	11/07/11 11:19
Sequence:	1L33801	Injection Date:	11/22/11
Lab Sample ID:	1L33801-CCV2	Injection Time:	20:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4570	80450.67	42836		-8.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.4471	41431.58	32158		-10.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1314001
Lab File ID:	021F0101.D	Calibration Date:	11/07/11 11:19
Sequence:	1L33801	Injection Date:	11/22/11
Lab Sample ID:	1L33801-CCV3	Injection Time:	21:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4555	80450.67	42732		-8.9	20
1,2-Dibromoethane [2C]	L	0.5000	0.4476	41431.58	32188		-10.5	20

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

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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
GW0250	11/15/11 09:41	11/16/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 16:38	7.25	14.00	
GW0289	11/15/11 13:29	11/16/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 16:59	7.10	14.00	
GW0290	11/15/11 10:58	11/16/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 17:20	7.22	14.00	
GW0331	11/14/11 16:18	11/16/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 17:41	8.02	14.00	
GW0332	11/14/11 13:39	11/16/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 18:03	8.14	14.00	
GW0352	11/15/11 13:31	11/16/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 18:24	7.16	14.00	
GW0288	11/15/11 15:44	11/17/11 08:30	11/22/11 06:32	N/A	14.00	11/22/11 18:45	7.08	14.00	
GW0344	11/16/11 10:21	11/17/11 08:30	11/22/11 06:32	N/A	14.00	11/22/11 19:07	6.32	14.00	
GW0345	11/16/11 13:08	11/17/11 08:30	11/22/11 06:32	N/A	14.00	11/22/11 19:28	6.22	14.00	
GW0351	11/16/11 10:23	11/17/11 08:30	11/22/11 06:32	N/A	14.00	11/22/11 19:49	6.35	14.00	
GW0274	11/17/11 11:11	11/18/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 20:32	5.35	14.00	
GW0275	11/17/11 11:11	11/18/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 20:54	5.36	14.00	
GW0346	11/17/11 11:43	11/18/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 21:15	5.36	14.00	
GW0353	11/16/11 14:53	11/18/11 08:20	11/22/11 06:32	N/A	14.00	11/22/11 21:36	6.24	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K22001-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	11/22/11 15:55
Solids:		Preparation:	EDB	Dilution:	

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4256	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1K22001-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 11/22/11 15:55
Solids:
Preparation: EDB
Dilution:
Batch: 1K22001
Sequence: 1L33801
Calibration: 1314001
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.3960	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K22001-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	11/22/11 16:16
Solids:		Preparation:	EDB	Dilution:	

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4448	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_036
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1K22001-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	11/22/11 16:16
Solids:		Preparation:	EDB	Dilution:	

Batch: 1K22001 Sequence: 1L33801 Calibration: 1314001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4100	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0289

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111148-03

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.277	
	2	2.29	2.24	2.30	0.259	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0290

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111148-05

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.241	
	2	2.29	2.24	2.30	0.225	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0331

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111148-07

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.0531	
	2	2.29	2.24	2.30	0.0394	30

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0352

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111148-11

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.146	
	2	2.29	2.24	2.30	0.0894	48

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0288

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111162-01

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.430	
	2	2.29	2.24	2.30	0.409	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0344

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111162-03

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.0356	
	2	2.29	2.24	2.30	0.0387	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0345

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1111162-05

Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.552	
	2	2.29	2.24	2.30	0.551	0

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1K22001-BS1 Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.4256	
	2	2.29	2.24	2.30	0.3960	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1K22001-BSD1 Date(s) Analyzed: 11/22/2011 11/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.4448	
	2	2.29	2.24	2.30	0.4100	8

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0250

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/15/11 09:41
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111148-01
Received: 11/16/11 08:20

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44400	1000	2000	5000	1		SW6010B	1L01005	12/05/11 11:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 11:44
7439-95-4	Magnesium	5440	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:44
7440-09-7	Potassium	2200	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 11:44
7440-23-5	Sodium	21600	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:44

ANALYSIS DATA SHEET

GW0250

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-02
Sampled:	11/15/11 09:41	Received:	11/16/11 08:20
% 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	1L05011	12/05/11 15:50
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 15:50

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03
Sampled:	11/15/11 13:29	Received:	11/16/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	66600	1000	2000	5000	1		SW6010B	1L01005	12/05/11 11:48
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 11:48
7439-95-4	Magnesium	8990	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:48
7440-09-7	Potassium	2840	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 11:48
7440-23-5	Sodium	31200	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:48

ANALYSIS DATA SHEET

GW0289

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/15/11 13:29
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111148-04
Received: 11/16/11 08:20

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	1L05011	12/05/11 15:55
7439-96-5	Manganese (dissolved)	8.15	3.00	6.00	15.0	1	J	SW6010B	1L05011	12/05/11 15:55

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05
Sampled:	11/15/11 10:58	Received:	11/16/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44800	1000	2000	5000	1		SW6010B	1L01005	12/05/11 11:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 11:53
7439-95-4	Magnesium	6010	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:53
7440-09-7	Potassium	2330	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 11:53
7440-23-5	Sodium	25100	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:53

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-06
Sampled:	11/15/11 10:58	Received:	11/16/11 08:20
% 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	1L05011	12/05/11 15:59
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 15:59

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-07
Sampled:	11/14/11 16:18	Received:	11/16/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	40900	1000	2000	5000	1		SW6010B	1L01005	12/05/11 11:57
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 11:57
7439-95-4	Magnesium	5590	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:57
7440-09-7	Potassium	2370	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 11:57
7440-23-5	Sodium	22100	1000	3000	5000	1		SW6010B	1L01005	12/05/11 11:57

ANALYSIS DATA SHEET

GW0331

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-08
Sampled:	11/14/11 16:18	Received:	11/16/11 08:20
% 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	1L05011	12/05/11 16:04
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 16:04

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09
Sampled:	11/14/11 13:39	Received:	11/16/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	32600	1000	2000	5000	1		SW6010B	1L01005	12/05/11 12:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 12:02
7439-95-4	Magnesium	4470	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:02
7440-09-7	Potassium	2050	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:02
7440-23-5	Sodium	21100	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:02

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-10
Sampled:	11/14/11 13:39	Received:	11/16/11 08:20
% 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	1L05011	12/05/11 16:08
7439-96-5	Manganese (dissolved)	3.60	3.00	6.00	15.0	1	J	SW6010B	1L05011	12/05/11 16:08

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-11
Sampled:	11/15/11 13:31	Received:	11/16/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	56300	1000	2000	5000	1		SW6010B	1L01005	12/05/11 12:06
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 12:06
7439-95-4	Magnesium	7390	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:06
7440-09-7	Potassium	2750	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:06
7440-23-5	Sodium	25600	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:06

ANALYSIS DATA SHEET

GW0352

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-12
Sampled:	11/15/11 13:31	Received:	11/16/11 08:20
% 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	1L05011	12/05/11 16:13
7439-96-5	Manganese (dissolved)	15.9	3.00	6.00	15.0	1		SW6010B	1L05011	12/05/11 16:13

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-01
Sampled:	11/15/11 15:44	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	54500	1000	2000	5000	1		SW6010B	1L01005	12/05/11 12:11
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 12:11
7439-95-4	Magnesium	7230	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:11
7440-09-7	Potassium	2580	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:11
7440-23-5	Sodium	29000	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:11

ANALYSIS DATA SHEET

GW0288

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-02
Sampled:	11/15/11 15:44	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1L05011	12/05/11 16:17
7439-96-5	Manganese (dissolved)	36.4	3.00	6.00	15.0	1		SW6010B	1L05011	12/05/11 16:17

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03
Sampled:	11/16/11 10:21	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	73100	1000	2000	5000	1		SW6010B	1L01005	12/05/11 12:15
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 12:15
7439-95-4	Magnesium	9950	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:15
7440-09-7	Potassium	3330	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:15
7440-23-5	Sodium	29100	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:15

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-04
Sampled:	11/16/11 10:21	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1L05011	12/05/11 16:22
7439-96-5	Manganese (dissolved)	247	3.00	6.00	15.0	1		SW6010B	1L05011	12/05/11 16:22

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05
Sampled:	11/16/11 13:08	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	52000	1000	2000	5000	1		SW6010B	1L01005	12/05/11 12:20
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 12:20
7439-95-4	Magnesium	6870	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:20
7440-09-7	Potassium	2810	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:20
7440-23-5	Sodium	25300	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:20

ANALYSIS DATA SHEET

GW0345

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/16/11 13:08
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111162-06
Received: 11/17/11 08:30

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	1L05011	12/05/11 16:26
7439-96-5	Manganese (dissolved)	39.4	3.00	6.00	15.0	1		SW6010B	1L05011	12/05/11 16:26

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07
Sampled:	11/16/11 10:23	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	60800	1000	2000	5000	1		SW6010B	1L01005	12/05/11 12:24
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L01005	12/05/11 12:24
7439-95-4	Magnesium	7920	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:24
7440-09-7	Potassium	3040	1000	3000	5000	1	J	SW6010B	1L01005	12/05/11 12:24
7440-23-5	Sodium	28100	1000	3000	5000	1		SW6010B	1L01005	12/05/11 12:24

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-08
Sampled:	11/16/11 10:23	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	181	30.0	60.0	100	1		SW6010B	1L05011	12/05/11 17:04
7439-96-5	Manganese (dissolved)	49.4	3.00	6.00	15.0	1		SW6010B	1L05011	12/05/11 17:04

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-01
Sampled:	11/17/11 11:11	Received:	11/18/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	49800	1000	2000	5000	1		SW6010B	1L06003	12/08/11 11:21
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L06003	12/08/11 11:21
7439-95-4	Magnesium	7080	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:21
7440-09-7	Potassium	2420	1000	3000	5000	1	J	SW6010B	1L06003	12/08/11 11:21
7440-23-5	Sodium	25300	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:21

ANALYSIS DATA SHEET

GW0274

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-02
Sampled:	11/17/11 11:11	Received:	11/18/11 08:20
% 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	1L05011	12/05/11 17:08
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 17:08

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-03
Sampled:	11/17/11 11:11	Received:	11/18/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	49800	1000	2000	5000	1		SW6010B	1L06003	12/08/11 11:25
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L06003	12/08/11 11:25
7439-95-4	Magnesium	7140	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:25
7440-09-7	Potassium	2410	1000	3000	5000	1	J	SW6010B	1L06003	12/08/11 11:25
7440-23-5	Sodium	25400	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:25

ANALYSIS DATA SHEET

GW0275

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-04
Sampled:	11/17/11 11:11	Received:	11/18/11 08:20
% 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	1L05011	12/05/11 17:13
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 17:13

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05
Sampled:	11/17/11 11:43	Received:	11/18/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36900	1000	2000	5000	1		SW6010B	1L06003	12/08/11 11:30
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L06003	12/08/11 11:30
7439-95-4	Magnesium	5010	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:30
7440-09-7	Potassium	2220	1000	3000	5000	1	J	SW6010B	1L06003	12/08/11 11:30
7440-23-5	Sodium	23600	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:30

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-06
Sampled:	11/17/11 11:43	Received:	11/18/11 08:20
% 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	1L05011	12/05/11 17:17
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 17:17

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-07
Sampled:	11/16/11 14:53	Received:	11/18/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36800	1000	2000	5000	1		SW6010B	1L06003	12/08/11 11:34
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L06003	12/08/11 11:34
7439-95-4	Magnesium	4840	1000	3000	5000	1	J	SW6010B	1L06003	12/08/11 11:34
7440-09-7	Potassium	2280	1000	3000	5000	1	J	SW6010B	1L06003	12/08/11 11:34
7440-23-5	Sodium	23300	1000	3000	5000	1		SW6010B	1L06003	12/08/11 11:34

ANALYSIS DATA SHEET

GW0353

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-08
Sampled:	11/17/11 14:53	Received:	11/18/11 08:20
% 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	1L05011	12/05/11 17:22
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1L05011	12/05/11 17:22

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_036
Project: Kirtland AFB 2011
Calibration: 1336001
Sequence: 1L33601

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33601-ICV1	Calcium	50000	53030	106	ug/L	+/- 10.00%
	Lead	1000	963.1	96.3	ug/L	+/- 10.00%
	Magnesium	50000	50780	102	ug/L	+/- 10.00%
	Potassium	10000	9396	94.0	ug/L	+/- 10.00%
	Sodium	50000	52530	105	ug/L	+/- 10.00%
1L33601-CCV1	Calcium	50000	53030	106	ug/L	+/- 10.00%
	Lead	1000	953.0	95.3	ug/L	+/- 10.00%
	Magnesium	50000	50950	102	ug/L	+/- 10.00%
	Potassium	10000	10050	101	ug/L	+/- 10.00%
	Sodium	50000	53200	106	ug/L	+/- 10.00%
1L33601-CCV2	Calcium	50000	47790	95.6	ug/L	+/- 10.00%
	Lead	1000	1010	101	ug/L	+/- 10.00%
	Magnesium	50000	48500	97.0	ug/L	+/- 10.00%
	Potassium	10000	9678	96.8	ug/L	+/- 10.00%
	Sodium	50000	47570	95.1	ug/L	+/- 10.00%
1L33601-CCV3	Calcium	50000	52700	105	ug/L	+/- 10.00%
	Lead	1000	963.4	96.3	ug/L	+/- 10.00%
	Magnesium	50000	50420	101	ug/L	+/- 10.00%
	Potassium	10000	10020	100	ug/L	+/- 10.00%
	Sodium	50000	51910	104	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_036
Project: Kirtland AFB 2011
Calibration: 1340001
Sequence: 1L34001

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L34001-ICV1	Calcium	50000	52220	104	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10430	104	ug/L	+/- 10.00%
	Lead	1000	957.6	95.8	ug/L	+/- 10.00%
	Magnesium	50000	49620	99.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1015	101	ug/L	+/- 10.00%
	Potassium	10000	9117	91.2	ug/L	+/- 10.00%
	Sodium	50000	51160	102	ug/L	+/- 10.00%
1L34001-CCV1	Calcium	50000	50550	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10070	101	ug/L	+/- 10.00%
	Lead	1000	1004	100	ug/L	+/- 10.00%
	Magnesium	50000	49350	98.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1003	100	ug/L	+/- 10.00%
	Potassium	10000	9767	97.7	ug/L	+/- 10.00%
	Sodium	50000	49240	98.5	ug/L	+/- 10.00%
1L34001-CCV2	Calcium	50000	51700	103	ug/L	+/- 10.00%
	Lead	1000	1005	100	ug/L	+/- 10.00%
	Magnesium	50000	49180	98.4	ug/L	+/- 10.00%
	Potassium	10000	9806	98.1	ug/L	+/- 10.00%
	Sodium	50000	49150	98.3	ug/L	+/- 10.00%
1L34001-CCV5	Iron (dissolved)	10000	9984	99.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1026	103	ug/L	+/- 10.00%
1L34001-CCV6	Iron (dissolved)	10000	10370	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1043	104	ug/L	+/- 10.00%
1L34001-CCV7	Iron (dissolved)	10000	10440	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1023	102	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_036
Project: Kirtland AFB 2011
Calibration: 1342006
Sequence: 1L34218

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L34218-ICV1	Calcium	50000	52490	105	ug/L	+/- 10.00%
	Lead	1000	980.5	98.0	ug/L	+/- 10.00%
	Magnesium	50000	49830	99.7	ug/L	+/- 10.00%
	Potassium	10000	9194	91.9	ug/L	+/- 10.00%
	Sodium	50000	50740	101	ug/L	+/- 10.00%
1L34218-CCV1	Calcium	50000	52520	105	ug/L	+/- 10.00%
	Lead	1000	978.8	97.9	ug/L	+/- 10.00%
	Magnesium	50000	50960	102	ug/L	+/- 10.00%
	Potassium	10000	9943	99.4	ug/L	+/- 10.00%
	Sodium	50000	52120	104	ug/L	+/- 10.00%
1L34218-CCV2	Calcium	50000	51710	103	ug/L	+/- 10.00%
	Lead	1000	975.0	97.5	ug/L	+/- 10.00%
	Magnesium	50000	50460	101	ug/L	+/- 10.00%
	Potassium	10000	9897	99.0	ug/L	+/- 10.00%
	Sodium	50000	52100	104	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1336001

Sequence: 1L33601

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L33601-CRL1	Calcium	2000	2146	107	ug/L	80 - 120
	Lead	3.000	2.862	95.4	ug/L	80 - 120
	Magnesium	3000	3164	105	ug/L	80 - 120
	Potassium	3000	3067	102	ug/L	80 - 120
	Sodium	3000	3196	107	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1340001

Sequence: 1L34001

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L34001-CRL1	Calcium	2000	2177	109	ug/L	80 - 120
	Iron (dissolved)	60.00	67.29	112	ug/L	80 - 120
	Lead	3.000	3.091	103	ug/L	80 - 120
	Magnesium	3000	3117	104	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.383	106	ug/L	80 - 120
	Potassium	3000	3015	100	ug/L	80 - 120
	Sodium	3000	3120	104	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1342006

Sequence: 1L34218

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L34218-CRL1	Calcium	2000	2163	108	ug/L	80 - 120
	Lead	3.000	2.699	90.0	ug/L	80 - 120
	Magnesium	3000	3136	105	ug/L	80 - 120
	Potassium	3000	3063	102	ug/L	80 - 120
	Sodium	3000	3112	104	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1L33601
Calibration: 1336001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33601-ICB1	Calcium	4.820	1000	5000	ug/L	U	SW6010B
	Lead	0.1340	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.970	1000	5000	ug/L	U	SW6010B
	Potassium	13.64	1000	5000	ug/L	U	SW6010B
	Sodium	14.53	1000	5000	ug/L	U	SW6010B
1L33601-CCB1	Calcium	13.9	1000	5000	ug/L	U	SW6010B
	Lead	-0.241	1.50	3.00	ug/L	U	SW6010B
	Magnesium	10.3	1000	5000	ug/L	U	SW6010B
	Potassium	-6.00	1000	5000	ug/L	U	SW6010B
	Sodium	22.8	1000	5000	ug/L	U	SW6010B
1L33601-CCB2	Calcium	23.8	1000	5000	ug/L	U	SW6010B
	Lead	0.0569	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.81	1000	5000	ug/L	U	SW6010B
	Potassium	-6.37	1000	5000	ug/L	U	SW6010B
	Sodium	9.55	1000	5000	ug/L	U	SW6010B
1L01005-BLK1	Calcium	32.8	1000	5000	ug/L	U	SW6010B
	Lead	-0.104	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.47	1000	5000	ug/L	U	SW6010B
	Potassium	5.36	1000	5000	ug/L	U	SW6010B
	Sodium	16.4	1000	5000	ug/L	U	SW6010B
1L33601-CCB3	Calcium	9.81	1000	5000	ug/L	U	SW6010B
	Lead	-0.758	1.50	3.00	ug/L	U	SW6010B
	Magnesium	12.5	1000	5000	ug/L	U	SW6010B
	Potassium	19.1	1000	5000	ug/L	U	SW6010B
	Sodium	21.4	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1L34001
Calibration: 1340001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L34001-ICB1	Calcium	8.010	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.137	30.0	100	ug/L	U	SW6010B
	Lead	0.3660	1.50	3.00	ug/L	U	SW6010B
	Magnesium	17.74	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.02205	3.00	15.0	ug/L	U	SW6010B
	Potassium	1.070	1000	5000	ug/L	U	SW6010B
	Sodium	17.97	1000	5000	ug/L	U	SW6010B
1L34001-CCB1	Calcium	10.5	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.94	30.0	100	ug/L	U	SW6010B
	Lead	0.849	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.34	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.123	3.00	15.0	ug/L	U	SW6010B
	Potassium	-5.52	1000	5000	ug/L	U	SW6010B
	Sodium	18.0	1000	5000	ug/L	U	SW6010B
1L34001-CCB2	Calcium	9.34	1000	5000	ug/L	U	SW6010B
	Lead	0.176	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.1	1000	5000	ug/L	U	SW6010B
	Potassium	24.8	1000	5000	ug/L	U	SW6010B
	Sodium	29.3	1000	5000	ug/L	U	SW6010B
1L34001-CCB5	Iron (dissolved)	2.43	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.114	3.00	15.0	ug/L	U	SW6010B
1L05011-BLK1	Iron (dissolved)	2.44	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0582	3.00	15.0	ug/L	U	SW6010B
1L34001-CCB6	Iron (dissolved)	0.868	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.769	3.00	15.0	ug/L	U	SW6010B
1L34001-CCB7	Iron (dissolved)	16.2	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.608	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1L34218
Calibration: 1342006

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L34218-ICB1	Calcium	4.060	1000	5000	ug/L	U	SW6010B
	Lead	-0.3486	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.100	1000	5000	ug/L	U	SW6010B
	Potassium	5.970	1000	5000	ug/L	U	SW6010B
	Sodium	8.350	1000	5000	ug/L	U	SW6010B
1L34218-CCB1	Calcium	5.15	1000	5000	ug/L	U	SW6010B
	Lead	0.237	1.50	3.00	ug/L	U	SW6010B
	Magnesium	16.2	1000	5000	ug/L	U	SW6010B
	Potassium	19.5	1000	5000	ug/L	U	SW6010B
	Sodium	20.2	1000	5000	ug/L	U	SW6010B
1L06003-BLK1	Calcium	9.59	1000	5000	ug/L	U	SW6010B
	Lead	0.103	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.10	1000	5000	ug/L	U	SW6010B
	Potassium	8.85	1000	5000	ug/L	U	SW6010B
	Sodium	14.9	1000	5000	ug/L	U	SW6010B
1L34218-CCB2	Calcium	20.7	1000	5000	ug/L	U	SW6010B
	Lead	-0.513	1.50	3.00	ug/L	U	SW6010B
	Magnesium	22.9	1000	5000	ug/L	U	SW6010B
	Potassium	14.9	1000	5000	ug/L	U	SW6010B
	Sodium	17.5	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1336001
Sequence: 1L33601

Lab Sample ID	Analyte	True	Found	%R	Units
1L33601-IFA1	Calcium	500000	505,640.00	101	ug/L
	Lead		4.06		ug/L
	Magnesium	500000	501,200.00	100	ug/L
	Potassium		-25.53		ug/L
	Sodium		50.59		ug/L
1L33601-IFB1	Calcium	500000	497,990.00	99.6	ug/L
	Lead	50.00	49.78	99.6	ug/L
	Magnesium	500000	497,450.00	99.5	ug/L
	Potassium		-17.86		ug/L
	Sodium		51.72		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1340001
Sequence: 1L34001

Lab Sample ID	Analyte	True	Found	%R	Units
1L34001-IFA1	Calcium	500000	498,540.00	99.7	ug/L
	Iron (dissolved)	200000	206,780.00	103	ug/L
	Lead		1.08		ug/L
	Magnesium	500000	487,260.00	97.5	ug/L
	Manganese (dissolved)		-3.70		ug/L
	Potassium		-7.72		ug/L
	Sodium		71.48		ug/L
1L34001-IFB1	Calcium	500000	505,900.00	101	ug/L
	Iron (dissolved)	200000	207,830.00	104	ug/L
	Lead	50.00	47.04	94.1	ug/L
	Magnesium	500000	493,560.00	98.7	ug/L
	Manganese (dissolved)	500.0	491.36	98.3	ug/L
	Potassium		-32.04		ug/L
	Sodium		64.91		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1342006
Sequence: 1L34218

Lab Sample ID	Analyte	True	Found	%R	Units
1L34218-IFA1	Calcium	500000	487,030.00	97.4	ug/L
	Lead		0.81		ug/L
	Magnesium	500000	490,440.00	98.1	ug/L
	Potassium		-8.99		ug/L
	Sodium		71.33		ug/L
1L34218-IFB1	Calcium	500000	493,320.00	98.7	ug/L
	Lead	50.00	48.26	96.5	ug/L
	Magnesium	500000	495,040.00	99.0	ug/L
	Potassium		-20.97		ug/L
	Sodium		58.71		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L01005	Laboratory ID:	1L01005-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	5270	105	80 - 120
Lead	250.0	254.7	102	80 - 120
Magnesium	5000	5156	103	80 - 120
Potassium	5000	5089	102	80 - 120
Sodium	5000	5082	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L05011	Laboratory ID:	1L05011-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	1052	105	80 - 120
Manganese (dissolved)	500.0	526.6	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L06003	Laboratory ID:	1L06003-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	5221	104	80 - 120
Lead	250.0	240.0	96.0	80 - 120
Magnesium	5000	5092	102	80 - 120
Potassium	5000	4949	99.0	80 - 120
Sodium	5000	5192	104	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_036

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_036

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_036

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_036

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_036

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_036

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_036

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L01005 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	12/01/11 08:29	50.00	50.00
GW0289	1111148-03	12/01/11 08:29	50.00	50.00
GW0290	1111148-05	12/01/11 08:29	50.00	50.00
GW0331	1111148-07	12/01/11 08:29	50.00	50.00
GW0332	1111148-09	12/01/11 08:29	50.00	50.00
GW0352	1111148-11	12/01/11 08:29	50.00	50.00
GW0288	1111162-01	12/01/11 08:29	50.00	50.00
GW0344	1111162-03	12/01/11 08:29	50.00	50.00
GW0345	1111162-05	12/01/11 08:29	50.00	50.00
GW0351	1111162-07	12/01/11 08:29	50.00	50.00
Blank	1L01005-BLK1	12/01/11 08:29	50.00	50.00
LCS	1L01005-BS1	12/01/11 08:29	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L05011 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-02	12/05/11 10:27	50.00	50.00
GW0289	1111148-04	12/05/11 10:27	50.00	50.00
GW0290	1111148-06	12/05/11 10:27	50.00	50.00
GW0331	1111148-08	12/05/11 10:27	50.00	50.00
GW0332	1111148-10	12/05/11 10:27	50.00	50.00
GW0352	1111148-12	12/05/11 10:27	50.00	50.00
GW0288	1111162-02	12/05/11 10:27	50.00	50.00
GW0344	1111162-04	12/05/11 10:27	50.00	50.00
GW0345	1111162-06	12/05/11 10:27	50.00	50.00
GW0351	1111162-08	12/05/11 10:27	50.00	50.00
GW0274	1111177-02	12/05/11 10:27	50.00	50.00
GW0275	1111177-04	12/05/11 10:27	50.00	50.00
GW0346	1111177-06	12/05/11 10:27	50.00	50.00
GW0353	1111177-08	12/05/11 10:27	50.00	50.00
Blank	1L05011-BLK1	12/05/11 10:27	50.00	50.00
LCS	1L05011-BS1	12/05/11 10:27	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L06003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0274	1111177-01	12/06/11 08:45	50.00	50.00
GW0275	1111177-03	12/06/11 08:45	50.00	50.00
GW0346	1111177-05	12/06/11 08:45	50.00	50.00
GW0353	1111177-07	12/06/11 08:45	50.00	50.00
Blank	1L06003-BLK1	12/06/11 08:45	50.00	50.00
LCS	1L06003-BS1	12/06/11 08:45	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33601	Instrument:	ME-ICP
Calibration:	1336001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L33601-CAL1	120111A-001	12/01/11 12:29
Cal Standard	1L33601-CAL2	120111A-002	12/01/11 12:33
Cal Standard	1L33601-CAL3	120111A-003	12/01/11 12:37
Cal Standard	1L33601-CAL5	120111A-005	12/01/11 12:46
Cal Standard	1L33601-CAL6	120111A-006	12/01/11 12:51
Cal Standard	1L33601-CAL7	120111A-007	12/01/11 12:57
Cal Standard	1L33601-CAL8	120111A-008	12/01/11 13:01
Initial Cal Check	1L33601-ICV1	120111B-001	12/01/11 13:31
Initial Cal Blank	1L33601-ICB1	120111B-002	12/01/11 13:38
Instrument RL Check	1L33601-CRL1	120111B-003	12/01/11 13:42
Interference Check A	1L33601-IFA1	120111B-005	12/01/11 13:53
Interference Check B	1L33601-IFB1	120111B-006	12/01/11 13:58
Calibration Check	1L33601-CCV1	120111B-008	12/01/11 14:10
Calibration Blank	1L33601-CCB1	120111B-009	12/01/11 14:17
Calibration Check	1L33601-CCV2	120111B-025	12/01/11 15:32
Calibration Blank	1L33601-CCB2	120111B-026	12/01/11 15:40
Blank	1L01005-BLK1	120111B-027	12/01/11 15:44
LCS	1L01005-BS1	120111B-028	12/01/11 15:49
Calibration Check	1L33601-CCV3	120111B-037	12/01/11 16:33
Calibration Blank	1L33601-CCB3	120111B-038	12/01/11 16:40

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34001	Instrument:	ME-ICP
Calibration:	1340001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L34001-CAL1	120511A-001	12/05/11 09:45
Cal Standard	1L34001-CAL1	120511A-001	12/05/11 09:45
Cal Standard	1L34001-CAL2	120511A-002	12/05/11 09:50
Cal Standard	1L34001-CAL2	120511A-002	12/05/11 09:50
Cal Standard	1L34001-CAL3	120511A-003	12/05/11 09:54
Cal Standard	1L34001-CAL3	120511A-003	12/05/11 09:54
Cal Standard	1L34001-CAL4	120511A-004	12/05/11 09:59
Cal Standard	1L34001-CAL5	120511A-005	12/05/11 10:03
Cal Standard	1L34001-CAL5	120511A-005	12/05/11 10:03
Cal Standard	1L34001-CAL6	120511A-006	12/05/11 10:08
Cal Standard	1L34001-CAL6	120511A-006	12/05/11 10:08
Cal Standard	1L34001-CAL7	120511A-007	12/05/11 10:14
Cal Standard	1L34001-CAL8	120511A-008	12/05/11 10:19
Initial Cal Check	1L34001-ICV1	120511B-001	12/05/11 10:52
Initial Cal Check	1L34001-ICV1	120511B-001	12/05/11 10:52
Initial Cal Blank	1L34001-ICB1	120511B-002	12/05/11 10:59
Initial Cal Blank	1L34001-ICB1	120511B-002	12/05/11 10:59
Instrument RL Check	1L34001-CRL1	120511B-003	12/05/11 11:04
Instrument RL Check	1L34001-CRL1	120511B-003	12/05/11 11:04
Interference Check A	1L34001-IFA1	120511B-005	12/05/11 11:14
Interference Check A	1L34001-IFA1	120511B-005	12/05/11 11:14
Interference Check B	1L34001-IFB1	120511B-006	12/05/11 11:19
Interference Check B	1L34001-IFB1	120511B-006	12/05/11 11:19
Calibration Check	1L34001-CCV1	120511B-008	12/05/11 11:32
Calibration Check	1L34001-CCV1	120511B-008	12/05/11 11:32
Calibration Blank	1L34001-CCB1	120511B-009	12/05/11 11:39
Calibration Blank	1L34001-CCB1	120511B-009	12/05/11 11:39
GW0250	1111148-01	120511B-010	12/05/11 11:44
GW0289	1111148-03	120511B-011	12/05/11 11:48
GW0290	1111148-05	120511B-012	12/05/11 11:53
GW0331	1111148-07	120511B-013	12/05/11 11:57
GW0332	1111148-09	120511B-014	12/05/11 12:02

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34001	Instrument:	ME-ICP
Calibration:	1340001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0352	1111148-11	120511B-015	12/05/11 12:06
GW0288	1111162-01	120511B-016	12/05/11 12:11
GW0344	1111162-03	120511B-017	12/05/11 12:15
GW0345	1111162-05	120511B-018	12/05/11 12:20
GW0351	1111162-07	120511B-019	12/05/11 12:24
Calibration Check	1L34001-CCV2	120511B-020	12/05/11 12:30
Calibration Blank	1L34001-CCB2	120511B-021	12/05/11 12:37
Calibration Check	1L34001-CCV5	120511B-055	12/05/11 15:28
Calibration Blank	1L34001-CCB5	120511B-056	12/05/11 15:35
Blank	1L05011-BLK1	120511B-057	12/05/11 15:39
LCS	1L05011-BS1	120511B-058	12/05/11 15:44
GW0250	1111148-02	120511B-059	12/05/11 15:50
GW0289	1111148-04	120511B-060	12/05/11 15:55
GW0290	1111148-06	120511B-061	12/05/11 15:59
GW0331	1111148-08	120511B-062	12/05/11 16:04
GW0332	1111148-10	120511B-063	12/05/11 16:08
GW0352	1111148-12	120511B-064	12/05/11 16:13
GW0288	1111162-02	120511B-065	12/05/11 16:17
GW0344	1111162-04	120511B-066	12/05/11 16:22
GW0345	1111162-06	120511B-067	12/05/11 16:26
Calibration Check	1L34001-CCV6	120511B-072	12/05/11 16:52
Calibration Blank	1L34001-CCB6	120511B-073	12/05/11 16:59
GW0351	1111162-08	120511B-074	12/05/11 17:04
GW0274	1111177-02	120511B-075	12/05/11 17:08
GW0275	1111177-04	120511B-076	12/05/11 17:13
GW0346	1111177-06	120511B-077	12/05/11 17:17
GW0353	1111177-08	120511B-078	12/05/11 17:22
Calibration Check	1L34001-CCV7	120511B-082	12/05/11 17:40
Calibration Blank	1L34001-CCB7	120511B-083	12/05/11 17:47

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34218	Instrument:	ME-ICP
Calibration:	1342006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L34218-CAL1	120811A-001	12/08/11 08:43
Cal Standard	1L34218-CAL2	120811A-002	12/08/11 08:48
Cal Standard	1L34218-CAL3	120811A-003	12/08/11 08:52
Cal Standard	1L34218-CAL5	120811A-005	12/08/11 09:02
Cal Standard	1L34218-CAL6	120811A-006	12/08/11 09:08
Cal Standard	1L34218-CAL7	120811A-007	12/08/11 09:14
Cal Standard	1L34218-CAL8	120811A-008	12/08/11 09:19
Initial Cal Check	1L34218-ICV1	120811B-001	12/08/11 09:52
Initial Cal Blank	1L34218-ICB1	120811B-002	12/08/11 09:59
Instrument RL Check	1L34218-CRL1	120811B-004	12/08/11 10:09
Interference Check A	1L34218-IFA1	120811B-007	12/08/11 10:25
Interference Check B	1L34218-IFB1	120811B-008	12/08/11 10:30
Calibration Check	1L34218-CCV1	120811B-010	12/08/11 10:41
Calibration Blank	1L34218-CCB1	120811B-011	12/08/11 10:48
Blank	1L06003-BLK1	120811B-012	12/08/11 10:53
LCS	1L06003-BS1	120811B-013	12/08/11 10:58
GW0274	1111177-01	120811B-017	12/08/11 11:21
GW0275	1111177-03	120811B-018	12/08/11 11:25
GW0346	1111177-05	120811B-019	12/08/11 11:30
GW0353	1111177-07	120811B-020	12/08/11 11:34
Calibration Check	1L34218-CCV2	120811B-025	12/08/11 11:58
Calibration Blank	1L34218-CCB2	120811B-026	12/08/11 12:05

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1336001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/1/11 12:29 12/1/11 13:01

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	2.2434E-05	10000	2.1723E-05			500000	2.175E-05		
Antimony	0	0	100	0.0005068	1000	5.1567E-04					10000	4.9989E-04
Arsenic	0	0	100	0.0003298	1000	3.4671E-04					10000	3.3866E-04
Barium	0	0	50	0.0108808	1000	0.010164	5000	0.010451				
Beryllium	0	0	100	0.0029289	1000	0.002926					10000	0.0028981
Boron	0	0	50	0.000016	1000	1.535E-05					5000	1.5114E-05
Cadmium	0	0	100	0.016882	1000	0.016882					10000	0.016043
Calcium	0	0	1100	6.833637E-05	50000	6.5452E-05					10000	
Chromium	0	0	100	0.000051	1000	4.938E-05					10000	4.844E-05
Cobalt	0	0	100	0.0046653	1000	0.0045351					10000	0.0045315
Copper	0	0	100	0.0000635	1000	5.904E-05					10000	5.662E-05
Iron	0	0	5100	2.21451E-05	10000	2.0746E-05			500000	2.0274E-05	10000	
Lead	0	0	100	0.0012706	1000	0.0012275					10000	0.0012336
Magnesium	0	0	5100		50000	2.68E-06			500000	2.7076E-06	10000	
Manganese	0	0	100	0.0002993	1000	2.8765E-04	10000	0.0002825			10000	
Molybdenum	0	0	100	0.0036452	1000	0.0037043					10000	0.0036492
Nickel	0	0	100	0.0032297	1000	0.0031532					10000	0.0031455
Potassium	0	0	1000	9.189999E-06	10000	1.324E-05						
Selenium	0	0	100	0.0003799	1000	0.0003834					10000	3.7007E-04
Silver	0	0	20	0.000065	500	6.076E-05	2000	0.0000641				
Sodium	0	0	1000		50000	4.0294E-05						
Strontium	0	0	100	0.001605	1000	0.001589					10000	0.001565
Thallium	0	0	100	0.0007076	1000	7.0158E-04					10000	7.0308E-04
Tin	0	0	50	0.0012734	1000	0.0012946					5000	0.0012916
Titanium	0	0	100	0.0002252	1000	2.2015E-04					10000	2.1686E-04
Vanadium	0	0	100	0.0000549	1000	5.378E-05					10000	5.2808E-05
Zinc	0	0	100	0.0069658	1000	0.0069546					10000	0.006807

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1336001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/1/11 12:29 12/1/11 13:01

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	6.3758E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6329E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3724E-05										
Selenium												
Silver												
Sodium	100000	4.0869E-05	500000	4.0284E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1336001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	12/1/11 12:29	12/1/11 13:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.647675E-05	66.69656	2.155225	170.0115	0.9999999		0.998	
Antimony	3.8059E-04	66.68826	21.26879	195.8464	0.9999905		0.998	
Arsenic	2.537925E-04	66.72218	18.87436	196.258	0.9999933		0.998	
Barium	7.87395E-03	66.77155	1.66302	176.1396	0.9999643		0.998	
Beryllium	2.18825E-03	66.66969	8.449918	190.4051	0.9999992		0.998	
Boron	1.1616E-05	66.74464	3.222217	180.4416	0.9999925		0.998	
Cadmium	1.245175E-02	66.74229	1.689445	167.894	0.9999748		0.998	
Calcium	4.938659E-05	66.77643	1.008977	124.6258	0.9999934		0.998	
Chromium	3.7205E-05	66.72721	27.54664	193.4516	0.9999969		0.998	
Cobalt	3.432975E-03	66.69132	1.848868	161.3534	1		0.998	
Copper	4.479E-05	66.96956	1.645013	63.12422	0.9999885		0.998	
Iron	1.579127E-05	66.85628	22.53031	196.6544	0.9999994		0.998	
Lead	9.32925E-04	66.69791	15.45712	197.2083	0.9999995		0.998	
Magnesium	2.005125E-06	66.68441	37.59296	198.8263	0.999969		0.998	
Manganese	2.173625E-04	66.74502	1.96566	137.4647	0.9999974		0.998	
Molybdenum	2.749675E-03	66.67388	4.734885	190.8723	0.9999977		0.998	
Nickel	0.0023821	66.68575	4.84693	188.2121	1		0.998	
Potassium	9.0385E-06	70.35845	2.644748	116.1457	0.9999997		0.998	
Selenium	2.833425E-04	66.69641	4.489013	184.5139	0.9999887		0.998	
Silver	4.7465E-05	66.77733	11.63844	183.8367	0.9998059		0.998	
Sodium	3.036175E-05	66.67275	4.656145	166.7686	0.99999		0.998	
Strontium	1.18975E-03	66.68098	2.8813	168.2691	0.9999978		0.998	
Thallium	5.28065E-04	66.66842	5.9433	186.4916	0.9999999		0.998	
Tin	0.0009649	66.67373	0.696855	80.47523	0.9999996		0.998	
Titanium	1.655525E-04	66.69885	2.65168	162.2838	0.9999985		0.998	
Vanadium	4.0372E-05	66.70028	6.528787	182.4959	0.9999973		0.998	
Zinc	5.18185E-03	66.68129	9.214045	194.1181	0.9999957		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1340001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/5/11 9:45 12/5/11 10:19

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	2.148E-05	10000	2.0991E-05			500000	2.086E-05		
Antimony	0	0	100	0.0006145	1000	6.2253E-04					10000	6.2016E-04
Arsenic	0	0	100	0.0003306	1000	3.4641E-04					10000	3.3743E-04
Barium	0	0	50	0.0118834	1000	0.011021	5000	0.0114214				
Beryllium	0	0	100	0.0024908	1000	0.002461					10000	0.0023491
Boron	0	0	50	0.000014	1000	1.376E-05					5000	1.3532E-05
Cadmium	0	0	100	0.017001	1000	0.016888					10000	0.015984
Calcium	0	0	1100	6.211818E-05	50000	5.785E-05					10000	
Chromium	0	0	100	0.0000512	1000	4.984E-05					10000	5.0089E-05
Cobalt	0	0	100	0.0055589	1000	0.0053569					10000	0.0054915
Copper	0	0	100	0.0000674	1000	0.0000653					10000	6.5175E-05
Iron	0	0	5100	1.882941E-05	10000	1.7696E-05			500000	1.68322E-05	10000	
Lead	0	0	100	0.0014204	1000	0.0013547					10000	0.0013825
Magnesium	0	0	5100		50000	2.5486E-06			500000	2.5724E-06	10000	
Manganese	0	0	100	0.0002854	1000	2.7372E-04	10000	2.6437E-04			10000	
Molybdenum	0	0	100	0.0038029	1000	0.0038533					10000	0.0038174
Nickel	0	0	100	0.003318	1000	0.0031782					10000	0.0031844
Potassium	0	0	1000	9.21E-06	10000	1.2681E-05						
Selenium	0	0	100	0.0004042	1000	4.0203E-04					10000	0.0003927
Silver	0	0	20	0.00006	500	5.688E-05	2000	5.8955E-05				
Sodium	0	0	1000		50000	3.3906E-05						
Strontium	0	0	100	0.001699	1000	0.001645					10000	0.001606
Thallium	0	0	100	6.883999E-04	1000	6.8219E-04					10000	6.8206E-04
Tin	0	0	50	0.0013616	1000	0.0013682					5000	1.37428E-03
Titanium	0	0	100	0.0002378	1000	2.2762E-04					10000	2.2483E-04
Vanadium	0	0	100	0.0000522	1000	5.118E-05					10000	5.1021E-05
Zinc	0	0	100	0.0074219	1000	0.0073751					10000	0.0072607
Aluminum	0	0	5000	2.148E-05	10000	2.0991E-05			500000	2.086E-05		
Antimony	0	0	100	0.0006145	1000	6.2253E-04					10000	6.2016E-04
Arsenic	0	0	100	0.0003306	1000	3.4641E-04					10000	3.3743E-04
Barium	0	0	50	0.0118834	1000	0.011021	5000	0.0114214				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1340001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/5/11 9:45 12/5/11 10:19

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0024908	1000	0.002461					10000	0.0023491
Boron	0	0	50	0.000014	1000	1.376E-05					5000	1.3532E-05
Cadmium	0	0	100	0.017001	1000	0.016888					10000	0.015984
Calcium	0	0	1100	6.211818E-05	50000	5.785E-05					10000	
Chromium	0	0	100	0.0000512	1000	4.984E-05					10000	5.0089E-05
Cobalt	0	0	100	0.0055589	1000	0.0053569					10000	0.0054915
Copper	0	0	100	0.0000674	1000	0.0000653					10000	6.5175E-05
Iron	0	0	5100	1.882941E-05	10000	1.7696E-05			500000	1.68322E-05	10000	
Lead	0	0	100	0.0014204	1000	0.0013547					10000	0.0013825
Magnesium	0	0	5100		50000	2.5486E-06			500000	2.5724E-06	10000	
Manganese	0	0	100	0.0002854	1000	2.7372E-04	10000	2.6437E-04			10000	
Molybdenum	0	0	100	0.0038029	1000	0.0038533					10000	0.0038174
Nickel	0	0	100	0.003318	1000	0.0031782					10000	0.0031844
Potassium	0	0	1000	9.21E-06	10000	1.2681E-05						
Selenium	0	0	100	0.0004042	1000	4.0203E-04					10000	0.0003927
Silver	0	0	20	0.00006	500	5.688E-05	2000	5.8955E-05				
Sodium	0	0	1000		50000	3.3906E-05						
Strontium	0	0	100	0.001699	1000	0.001645					10000	0.001606
Thallium	0	0	100	6.883999E-04	1000	6.8219E-04					10000	6.8206E-04
Tin	0	0	50	0.0013616	1000	0.0013682					5000	1.37428E-03
Titanium	0	0	100	0.0002378	1000	2.2762E-04					10000	2.2483E-04
Vanadium	0	0	100	0.0000522	1000	5.118E-05					10000	5.1021E-05
Zinc	0	0	100	0.0074219	1000	0.0073751					10000	0.0072607

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1340001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/5/11 9:45 12/5/11 10:19

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	5.4168E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4533E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3102E-05										
Selenium												
Silver												
Sodium	100000	3.3599E-05	500000	3.3138E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1340001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/5/11 9:45 12/5/11 10:19

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.4168E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4533E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3102E-05										
Selenium												
Silver												
Sodium	100000	3.3599E-05	500000	3.3138E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1340001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/5/11 9:45 12/5/11 10:19

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.583275E-05	66.68797	2.07704	162.4271	0.9999999		0.998	
Antimony	4.642975E-04	66.67061	25.07856	195.4362	0.9999998		0.998	
Arsenic	2.5361E-04	66.71553	16.90056	193.4956	0.999992		0.998	
Barium	8.58145E-03	66.793	3.006155	178.2457	0.999943		0.998	
Beryllium	1.825225E-03	66.75038	4.9282	167.1636	0.9999795		0.998	
Boron	1.0323E-05	66.69235	3.3002	150.1854	0.9999902		0.998	
Cadmium	1.246825E-02	66.76653	8.173403	188.3172	0.9999707		0.998	
Calcium	4.353404E-05	67.083	4.089995	168.2373	0.9999557		0.998	
Chromium	3.778225E-05	66.68503	24.43325	194.2978	0.9999996		0.998	
Cobalt	4.101825E-03	66.6981	1.949067	168.5882	0.9999934		0.998	
Copper	4.946875E-05	66.69859	1.15593	72.02318	1		0.998	
Iron	1.33394E-05	66.948	31.0102	195.8795	0.9999988		0.998	
Lead	0.0010394	66.71698	14.4269	195.8629	0.9999952		0.998	
Magnesium	1.893575E-06	66.72204	54.76297	198.9268	0.9999085		0.998	
Manganese	2.058725E-04	66.79751	4.396935	173.3918	0.9999894		0.998	
Molybdenum	0.0028684	66.67076	8.399368	193.2138	0.9999991		0.998	
Nickel	2.42015E-03	66.7199	1.123753	152.501	0.9999997		0.998	
Potassium	8.74825E-06	69.5834	1.93042	98.64824	0.9999998		0.998	
Selenium	2.997325E-04	66.68744	7.995725	192.4061	0.9999954		0.998	
Silver	4.395875E-05	66.73189	5.164188	179.1378	0.9999097		0.998	
Sodium	2.516075E-05	66.67847	1.969187	142.4397	0.9999904		0.998	
Strontium	0.0012375	66.73784	3.066325	166.4833	0.9999949		0.998	
Thallium	5.131625E-04	66.66916	6.022257	186.8688	0.9999999		0.998	
Tin	1.02602E-03	66.66857	4.242855	173.112	0.9999993		0.998	
Titanium	1.725625E-04	66.74488	2.616433	159.4115	0.9999991		0.998	
Vanadium	3.860025E-05	66.6804	3.489762	158.9804	1		0.998	
Zinc	5.514425E-03	66.67797	2.80725	180.1635	0.9999979		0.998	
Aluminum	1.583275E-05	66.68797	2.07704	162.4271	0.9999999		0.998	
Antimony	4.642975E-04	66.67061	25.07856	195.4362	0.9999998		0.998	
Arsenic	2.5361E-04	66.71553	16.90056	193.4956	0.999992		0.998	
Barium	8.58145E-03	66.793	3.006155	178.2457	0.999943		0.998	
Beryllium	1.825225E-03	66.75038	4.9282	167.1636	0.9999795		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1340001	Instrument:	ME-ICP	
Matrix:	Water	Calibration Dates:	12/5/11 9:45	12/5/11 10:19

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.0323E-05	66.69235	3.3002	150.1854	0.9999902		0.998	
Cadmium	1.246825E-02	66.76653	8.173403	188.3172	0.9999707		0.998	
Calcium	4.353404E-05	67.083	4.089995	168.2373	0.9999557		0.998	
Chromium	3.778225E-05	66.68503	24.43325	194.2978	0.9999996		0.998	
Cobalt	4.101825E-03	66.6981	1.949067	168.5882	0.9999934		0.998	
Copper	4.946875E-05	66.69859	1.15593	72.02318	1		0.998	
Iron	1.33394E-05	66.948	31.0102	195.8795	0.9999988		0.998	
Lead	0.0010394	66.71698	14.4269	195.8629	0.9999952		0.998	
Magnesium	1.893575E-06	66.72204	54.76297	198.9268	0.9999085		0.998	
Manganese	2.058725E-04	66.79751	4.396935	173.3918	0.9999894		0.998	
Molybdenum	0.0028684	66.67076	8.399368	193.2138	0.9999991		0.998	
Nickel	2.42015E-03	66.7199	1.123753	152.501	0.9999997		0.998	
Potassium	8.74825E-06	69.5834	1.93042	98.64824	0.9999998		0.998	
Selenium	2.997325E-04	66.68744	7.995725	192.4061	0.9999954		0.998	
Silver	4.395875E-05	66.73189	5.164188	179.1378	0.9999097		0.998	
Sodium	2.516075E-05	66.67847	1.969187	142.4397	0.9999904		0.998	
Strontium	0.0012375	66.73784	3.066325	166.4833	0.9999949		0.998	
Thallium	5.131625E-04	66.66916	6.022257	186.8688	0.9999999		0.998	
Tin	1.02602E-03	66.66857	4.242855	173.112	0.9999993		0.998	
Titanium	1.725625E-04	66.74488	2.616433	159.4115	0.9999991		0.998	
Vanadium	3.860025E-05	66.6804	3.489762	158.9804	1		0.998	
Zinc	5.514425E-03	66.67797	2.80725	180.1635	0.9999979		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1342006	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/8/11 8:43 12/8/11 9:19

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	2.071E-05	10000	2.028E-05			500000	2.039E-05		
Antimony	0	0	100	0.0004717	1000	4.8025E-04					10000	4.6094E-04
Arsenic	0	0	100	0.0003116	1000	3.2795E-04					10000	3.1651E-04
Barium	0	0	50	0.0101768	1000	0.0094694	5000	0.009703				
Beryllium	0	0	100	0.0027471	1000	0.0027594					10000	0.0026626
Boron	0	0	50	0.0000144	1000	1.436E-05					5000	1.4288E-05
Cadmium	0	0	100	0.015816	1000	0.015749					10000	0.01494
Calcium	0	0	1100	6.390909E-05	50000	6.1146E-05					10000	
Chromium	0	0	100	0.000047	1000	4.532E-05					10000	4.5212E-05
Cobalt	0	0	100	0.004323	1000	0.0041969					10000	0.0041684
Copper	0	0	100	0.0000589	1000	5.454E-05					10000	5.2538E-05
Iron	0	0	5100	2.069608E-05	10000	1.9518E-05			500000	1.92374E-05	10000	
Lead	0	0	100	0.0011845	1000	0.0011322					10000	0.0011349
Magnesium	0	0	5100		50000	2.1604E-06			500000	2.2364E-06	10000	
Manganese	0	0	100	0.0002728	1000	2.6492E-04	10000	2.5837E-04			10000	
Molybdenum	0	0	100	0.0034094	1000	0.003466					10000	0.0033896
Nickel	0	0	100	0.0030392	1000	0.0029538					10000	0.0029399
Potassium	0	0	1000	0.0000093	10000	1.2403E-05						
Selenium	0	0	100	0.0003613	1000	3.6089E-04					10000	3.4638E-04
Silver	0	0	20	0.0000605	500	5.672E-05	2000	5.977E-05				
Sodium	0	0	1000		50000	3.7872E-05						
Strontium	0	0	100	0.001496	1000	0.001482					10000	0.001469
Thallium	0	0	100	0.0006572	1000	6.5627E-04					10000	6.5606E-04
Tin	0	0	50	0.0011902	1000	0.0012063					5000	1.19014E-03
Titanium	0	0	100	0.0002103	1000	2.0458E-04					10000	1.9983E-04
Vanadium	0	0	100	0.0000504	1000	4.952E-05					10000	4.9131E-05
Zinc	0	0	100	0.0064726	1000	0.0064457					10000	0.0062337

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1342006	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/8/11 8:43 12/8/11 9:19

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	5.929E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.1322E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2902E-05										
Selenium												
Silver												
Sodium	100000	3.8351E-05	500000	3.8028E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_036	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1342006		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	12/8/11 8:43	12/8/11 9:19

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5345E-05	66.67726	4.193095	179.8046	0.9999999		0.998	
Antimony	3.532225E-04	66.70417	20.32595	196.6988	0.9999829		0.998	
Arsenic	2.39015E-04	66.72824	13.29284	193.1996	0.9999859		0.998	
Barium	0.0073373	66.78721	1.925408	178.7572	0.9999719		0.998	
Beryllium	2.042275E-03	66.69995	11.3691	189.7242	0.9999877		0.998	
Boron	1.0762E-05	66.66806	2.42745	142.6669	0.9999992		0.998	
Cadmium	1.162625E-02	66.75454	1.545415	168.6087	0.9999731		0.998	
Calcium	4.608627E-05	66.79373	1.161183	122.0465	0.9999907		0.998	
Chromium	3.4383E-05	66.70917	55.76804	198.1809	0.9999999		0.998	
Cobalt	3.172075E-03	66.7003	0.5113625	119.0999	0.9999998		0.998	
Copper	4.14945E-05	66.97326	0.760185	28.32752	0.9999915		0.998	
Iron	1.486287E-05	66.80212	68.82486	197.9888	0.9999996		0.998	
Lead	0.0008629	66.72487	5.006278	190.0778	0.9999997		0.998	
Magnesium	1.63225E-06	66.72116	86.01658	199.2898	0.9999177		0.998	
Manganese	1.990225E-04	66.73253	2.875217	149.8841	0.9999946		0.998	
Molybdenum	2.56625E-03	66.6786	14.26147	197.3875	0.9999951		0.998	
Nickel	2.233225E-03	66.69565	4.074462	191.6108	0.9999999		0.998	
Potassium	8.65125E-06	69.16428	2.703073	119.0341	0.9999983		0.998	
Selenium	2.671425E-04	66.71725	20.29417	195.8982	0.9999845		0.998	
Silver	4.42475E-05	66.76927	6.27118	172.9942	0.9998136		0.998	
Sodium	2.856275E-05	66.67032	3.747705	167.0362	0.9999957		0.998	
Strontium	1.11175E-03	66.67404	0.39965	64.84792	0.9999992		0.998	
Thallium	4.923825E-04	66.66674	8.87495	190.6748	0.9999999		0.998	
Tin	8.9666E-04	66.67206	2.519285	179.985	0.9999913		0.998	
Titanium	1.536775E-04	66.72483	1.71657	152.1229	0.9999957		0.998	
Vanadium	3.726275E-05	66.68189	6.755463	177.2754	0.9999996		0.998	
Zinc	0.004788	66.704	6.23959	196.1213	0.9999895		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0250

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/15/11 09:41
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111148-01
Received: 11/16/11 08:20

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	1K29010	11/30/11 09:46
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1K16032	11/16/11 17:58
10-09-3	Alkalinity, Bicarbonate (as CACO3)	97.3	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 14:47
16887-00-6	Chloride	17.8	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 20:00
NA	Nitrate/Nitrite as N	1.15	0.250	0.750	1.50	1	J	E353.2	1L01004	12/01/11 11:19
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 14:47
14808-79-8	Sulfate as SO4	27.0	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 20:00

ANALYSIS DATA SHEET

GW0289

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-03
Sampled:	11/15/11 13:29	Received:	11/16/11 08:20
% 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	1L05006	12/06/11 15:22
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K16032	11/16/11 17:59
10-09-3	Alkalinity, Bicarbonate (as CACO3)	107	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 15:04
16887-00-6	Chloride	44.6	0.170	0.330	0.500	1		E300.0	1L05025	12/05/11 18:13
NA	Nitrate/Nitrite as N	0.891	0.250	0.750	1.50	1	J	E353.2	1L01004	12/01/11 11:24
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 15:04
14808-79-8	Sulfate as SO4	74.1	0.330	1.00	2.00	1		E300.0	1L05025	12/05/11 18:13

ANALYSIS DATA SHEET

GW0290

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-05
Sampled:	11/15/11 10:58	Received:	11/16/11 08:20
% 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	1L05006	12/06/11 15:24
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K16032	11/16/11 18:00
10-09-3	Alkalinity, Bicarbonate (as CACO3)	98.4	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 15:37
16887-00-6	Chloride	18.7	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 22:02
NA	Nitrate/Nitrite as N	0.322	0.250	0.750	1.50	1	J	E353.2	1L01004	12/01/11 11:25
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 15:37
14808-79-8	Sulfate as SO4	47.3	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 22:02

ANALYSIS DATA SHEET

GW0331

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/14/11 16:18
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111148-07
Received: 11/16/11 08:20

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	1L05006	12/06/11 15:26
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1K16032	11/16/11 18:01
10-09-3	Alkalinity, Bicarbonate (as CACO3)	97.3	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 15:56
16887-00-6	Chloride	17.7	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 22:19
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:31
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 15:56
14808-79-8	Sulfate as SO4	30.1	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 22:19

ANALYSIS DATA SHEET

GW0332

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111148-09
Sampled:	11/14/11 13:39	Received:	11/16/11 08:20
% 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	1L05006	12/06/11 15:27
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K16032	11/16/11 18:02
10-09-3	Alkalinity, Bicarbonate (as CACO3)	91.0	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 16:04
16887-00-6	Chloride	7.60	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 22:37
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:32
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 16:04
14808-79-8	Sulfate as SO4	28.0	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 22:37

ANALYSIS DATA SHEET

GW0352

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/15/11 13:31
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111148-11
Received: 11/16/11 08:20

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	1L05006	12/06/11 15:28
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K16032	11/16/11 18:03
10-09-3	Alkalinity, Bicarbonate (as CACO3)	111	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 16:12
16887-00-6	Chloride	33.6	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 22:54
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:34
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 16:12
14808-79-8	Sulfate as SO4	50.3	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 22:54

ANALYSIS DATA SHEET

GW0288

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/15/11 15:44
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111162-01
Received: 11/17/11 08:30

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	1L05006	12/06/11 15:29
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1K22021	11/22/11 14:06
10-09-3	Alkalinity, Bicarbonate (as CACO3)	103	1.00	1.00	1.00	1		SM2320B	1K28003	11/28/11 16:20
16887-00-6	Chloride	31.0	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 23:12
NA	Nitrate/Nitrite as N	0.465	0.250	0.750	1.50	1	J	E353.2	1L01004	12/01/11 11:35
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K28003	11/28/11 16:20
14808-79-8	Sulfate as SO4	56.1	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 23:12

ANALYSIS DATA SHEET

GW0344

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-03
Sampled:	11/16/11 10:21	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L05006	12/06/11 15:30
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1K22021	11/22/11 14:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	147	1.00	1.00	1.00	1		SM2320B	1K30907	11/30/11 10:15
16887-00-6	Chloride	50.2	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 23:29
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:37
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K30907	11/30/11 10:15
14808-79-8	Sulfate as SO4	47.3	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 23:29

ANALYSIS DATA SHEET

GW0345

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-05
Sampled:	11/16/11 13:08	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L05006	12/06/11 15:31
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1K22021	11/22/11 14:08
10-09-3	Alkalinity, Bicarbonate (as CACO3)	115	1.00	1.00	1.00	1		SM2320B	1K30907	11/30/11 10:25
16887-00-6	Chloride	35.1	0.170	0.330	0.500	1		E300.0	1K28028	12/02/11 23:47
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:38
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K30907	11/30/11 10:25
14808-79-8	Sulfate as SO4	37.8	0.330	1.00	2.00	1		E300.0	1K28028	12/02/11 23:47

ANALYSIS DATA SHEET

GW0351

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111162-07
Sampled:	11/16/11 10:23	Received:	11/17/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L05006	12/06/11 15:32
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K22021	11/22/11 14:09
10-09-3	Alkalinity, Bicarbonate (as CACO3)	133	1.00	1.00	1.00	1		SM2320B	1K30907	11/30/11 11:55
16887-00-6	Chloride	26.9	0.170	0.330	0.500	1		E300.0	1L05025	12/05/11 19:23
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:40
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K30907	11/30/11 11:55
14808-79-8	Sulfate as SO4	44.2	0.330	1.00	2.00	1		E300.0	1L05025	12/05/11 19:23

ANALYSIS DATA SHEET

GW0274

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/17/11 11:11
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111177-01
Received: 11/18/11 08:20

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	1L05006	12/06/11 15:33
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K22021	11/22/11 14:10
10-09-3	Alkalinity, Bicarbonate (as CACO3)	94.5	1.00	1.00	1.00	1		SM2320B	1L01006	12/01/11 10:30
16887-00-6	Chloride	24.2	1.70	3.30	10.0	10	M D	E300.0	1K29018	11/30/11 01:21
NA	Nitrate/Nitrite as N	0.308	0.250	0.750	1.50	1	J	E353.2	1L01004	12/01/11 11:41
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L01006	12/01/11 10:30
14808-79-8	Sulfate as SO4	49.5	3.30	10.0	20.0	10	D	E300.0	1K29018	11/30/11 01:21

ANALYSIS DATA SHEET

GW0275

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/17/11 11:11
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111177-03
Received: 11/18/11 08:20

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	1L05006	12/06/11 15:36
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1K22021	11/22/11 14:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	95.3	1.00	1.00	1.00	1		SM2320B	1L01006	12/01/11 10:40
16887-00-6	Chloride	23.5	1.70	3.30	10.0	10	M D	E300.0	1K29018	11/30/11 01:38
NA	Nitrate/Nitrite as N	0.333	0.250	0.750	1.50	1	J	E353.2	1L01004	12/01/11 11:42
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L01006	12/01/11 10:40
14808-79-8	Sulfate as SO4	49.4	3.30	10.0	20.0	10	D	E300.0	1K29018	11/30/11 01:38

ANALYSIS DATA SHEET

GW0346

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1111177-05
Sampled:	11/17/11 11:43	Received:	11/18/11 08:20
% 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	1L05006	12/06/11 15:37
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1K22021	11/22/11 14:12
10-09-3	Alkalinity, Bicarbonate (as CACO3)	95.3	1.00	1.00	1.00	1		SM2320B	1L01006	12/01/11 11:26
16887-00-6	Chloride	8.04	1.70	3.30	10.0	10	M J D	E300.0	1K29018	11/30/11 01:55
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L01004	12/01/11 11:44
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L01006	12/01/11 11:26
14808-79-8	Sulfate as SO4	30.0	3.30	10.0	20.0	10	D	E300.0	1K29018	11/30/11 01:55

ANALYSIS DATA SHEET

GW0353

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/16/11 14:53
% Solids: 0.00

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1111177-07
Received: 11/18/11 08:20

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	1L05006	12/06/11 15:38
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1K22021	11/22/11 14:13
10-09-3	Alkalinity, Bicarbonate (as CACO3)	99.2	1.00	1.00	1.00	1		SM2320B	1K30907	11/30/11 12:13
16887-00-6	Chloride	7.86	1.70	3.30	10.0	10	M D J	E300.0	1K29018	11/30/11 02:13
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	XU	E353.2	1L01012	12/02/11 11:12
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1K30907	11/30/11 12:13
14808-79-8	Sulfate as SO4	29.9	3.30	10.0	20.0	10	D	E300.0	1K29018	11/30/11 02:13

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_036
Project: Kirtland AFB 2011
Calibration: 1334003
Sequence: 1K33406

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1K33406-ICV1	Ammonia as N	2.000	2.158	108	mg/L	+/- 10.00%
1K33406-CCV1	Ammonia as N	2.000	2.173	109	mg/L	+/- 10.00%
1K33406-CCV2	Ammonia as N	2.000	2.143	107	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_036
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L33502

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33502-ICV1	Chloride	4.800	5.082	106	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	24.04	100	mg/L	+/- 10.00%
1L33502-CCV1	Chloride	25.00	25.19	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.12	100	mg/L	+/- 10.00%
1L33502-CCV2	Chloride	25.00	25.15	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.15	101	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_036
Project: Kirtland AFB 2011
Calibration: 1335001
Sequence: 1L33503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33503-ICV1	Nitrate/Nitrite as N	1.200	1.253	104	mg/L	+/- 10.00%
1L33503-CCV1	Nitrate/Nitrite as N	1.200	1.238	103	mg/L	+/- 10.00%
1L33503-CCV2	Nitrate/Nitrite as N	1.200	1.227	102	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_036
Project: Kirtland AFB 2011
Calibration: 1336002
Sequence: 1L33606

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33606-ICV1	Nitrate/Nitrite as N	1.200	1.253	104	mg/L	+/- 10.00%
1L33606-CCV1	**Nitrate/Nitrite as N**	**1.200**	**1.336**	**111**	**mg/L**	+/- 10.00%
1L33606-CCV2	Nitrate/Nitrite as N	1.200	1.311	109	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_036
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L33904

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33904-CCV1	Chloride	25.00	24.40	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.38	97.5	mg/L	+/- 10.00%
1L33904-CCV2	Chloride	25.00	23.96	95.8	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.94	95.8	mg/L	+/- 10.00%
1L33904-CCV3	Chloride	25.00	23.97	95.9	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.85	95.4	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_036
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L34006

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L34006-CCV1	Chloride	25.00	25.11	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.96	99.9	mg/L	+/- 10.00%
1L34006-CCV2	Chloride	25.00	25.03	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.92	99.7	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_036
Project: Kirtland AFB 2011
Calibration: 1334005
Sequence: 1L34015

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L34015-ICV1	Ammonia as N	2.000	2.139	107	mg/L	+/- 10.00%
1L34015-CCV1	Ammonia as N	2.000	2.197	110	mg/L	+/- 10.00%
1L34015-CCV2	Ammonia as N	2.000	2.179	109	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 1L33502

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L33502-CRL1	Chloride	1.000	1.057	106	mg/L	75 - 125
	Sulfate as SO4	1.000	1.074	107	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 1L33904

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L33904-CRL1	Chloride	0.5000	0.5520	110	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5450	109	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 1L34006

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L34006-CRL1	Chloride	0.5000	0.5440	109	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5580	112	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K16032

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K16032-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K22021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K22021-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K28003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K28003-BLK1	Alkalinity, Total (as CACO3)	0.394	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K28028

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K28028-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
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K29010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K29010-BLK1	Ammonia as N	0.0312	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K29018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K29018-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
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1K30907

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K30907-BLK1	Alkalinity, Total (as CACO3)	0.394	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L01004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L01004-BLK1	Nitrate/Nitrite as N	-0.0234	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L01006

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L01006-BLK1	Alkalinity, Total (as CACO3)	0.788	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L01012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L01012-BLK1	Nitrate/Nitrite as N	-0.0173	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L05006

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L05006-BLK1	Ammonia as N	0.0357	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L05025

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L05025-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

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1K33406
Calibration: 1334003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K33406-ICB1	Ammonia as N	-0.005404	0.110	0.300	mg/L	U	SM4500NH3BG
1K33406-CCB1	Ammonia as N	-0.00938	0.110	0.300	mg/L	U	SM4500NH3BG
1K33406-CCB2	Ammonia as N	-0.00786	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L33502
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33502-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
1L33502-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
1L33502-CCB2	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

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L33503
Calibration: 1335001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33503-ICB1	Nitrate/Nitrite as N	-0.01994	0.0500	0.300	mg/L	U	E353.2
1L33503-CCB1	Nitrate/Nitrite as N	-0.0190	0.0500	0.300	mg/L	U	E353.2
1L33503-CCB2	Nitrate/Nitrite as N	-0.0286	0.0500	0.300	mg/L	U	E353.2

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L33606
Calibration: 1336002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33606-ICB1	Nitrate/Nitrite as N	-0.01620	0.0500	0.300	mg/L	U	E353.2
1L33606-CCB1	Nitrate/Nitrite as N	-0.0299	0.0500	0.300	mg/L	U	E353.2
1L33606-CCB2	Nitrate/Nitrite as N	-0.0335	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L33904
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33904-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
1L33904-CCB2	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
1L33904-CCB3	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

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L34006
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L34006-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
1L34006-CCB2	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

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_036
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L34015
Calibration: 1334005
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L34015-ICB1	Ammonia as N	-0.002886	0.110	0.300	mg/L	U	SM4500NH3BG
1L34015-CCB1	Ammonia as N	-0.00569	0.110	0.300	mg/L	U	SM4500NH3BG
1L34015-CCB2	Ammonia as N	-0.00492	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0344

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1K30907

% Solids:

Source Sample Name: **1111162-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	147.3	248.5	91.1		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	245.9	88.8	1.06		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0250

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L01004

% Solids:

Source Sample Name: **1111148-01**

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	1.150	3.735	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	3.764	105	0.773		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0353

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L01012

% Solids:

Source Sample Name: **1111177-07**

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	ND	2.816	113		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.791	112	0.874		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0290

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L05006

% Solids:

Source Sample Name: **1111148-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.792	95.8		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0289

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L05025

% Solids:

Source Sample Name: **1111148-03RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	44.63	72.31	99.7		80 - 120
Sulfate as SO4	27.78	74.10	100.6	95.5		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Chloride	27.78	74.53	108	3.02		20	80 - 120
Sulfate as SO4	27.78	102.3	102	1.68		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0351

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L05025

% Solids:

Source Sample Name: **1111162-07RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	26.95	52.84	93.2		80 - 120
Sulfate as SO4	27.78	44.23	69.49	91.0		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Chloride	27.78	55.57	103	5.03		20	80 - 120
Sulfate as SO4	27.78	72.20	101	3.82		20	80 - 120

GW0289

DUPLICATES

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1L05006
Preparation: pNone
Source Sample Name: GW0289

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1L05006-DUP1
Lab Source ID: 1111148-03
Initial/Final: 100 mL / 100 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Ammonia as N	200	0.300 U	0.300 U			SM4500NH3BG

GW0289

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1L05025
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0289

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1L05025-DUP1
Lab Source ID: 1111148-03RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	44.6	44.44	0.429		E300.0
Sulfate as SO4	20	74.1	73.84	0.354		E300.0

GW0351

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1L05025
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0351

SDG: Kirtland_036
Project: Kirtland AFB 2011
Laboratory ID: 1L05025-DUP2
Lab Source ID: 1111162-07RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	26.9	27.21	0.971		E300.0
Sulfate as SO4	20	44.2	44.66	0.972		E300.0

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K16032	Laboratory ID:	1K16032-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1160	1217	105	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1160	1234	106	1.36	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K22021	Laboratory ID:	1K22021-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1160	1234	106	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1160	1217	105	1.36	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K28003	Laboratory ID:	1K28003-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	974.7	97.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K28028	Laboratory ID:	1K28028-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.176	108	90 - 110
Sulfate as SO4	24.00	24.23	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K29010	Laboratory ID:	1K29010-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	4.969	99.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K29018	Laboratory ID:	1K29018-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.087	106	90 - 110
Sulfate as SO4	24.00	23.80	99.2	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1K30907	Laboratory ID:	1K30907-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	982.5	98.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L01004	Laboratory ID:	1L01004-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	32.00	31.26	97.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L01006	Laboratory ID:	1L01006-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	980.6	98.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L01012	Laboratory ID:	1L01012-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	32.00	33.92	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L05006	Laboratory ID:	1L05006-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	4.769	95.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L05025	Laboratory ID:	1L05025-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.230	109	90 - 110
Sulfate as SO4	24.00	24.50	102	90 - 110

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K16032 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/16/11 16:41	290.00	200.00
GW0289	1111148-03	11/16/11 16:41	270.00	200.00
GW0290	1111148-05	11/16/11 16:41	270.00	200.00
GW0331	1111148-07	11/16/11 16:41	290.00	200.00
GW0332	1111148-09	11/16/11 16:41	270.00	200.00
GW0352	1111148-11	11/16/11 16:41	270.00	200.00
Blank	1K16032-BLK1	11/16/11 16:41	250.00	200.00
LCS	1K16032-BS1	11/16/11 16:41	3.00	250.00
LCS Dup	1K16032-BSD1	11/16/11 16:41	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K22021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0288	1111162-01	11/22/11 11:06	290.00	200.00
GW0344	1111162-03	11/22/11 11:06	290.00	200.00
GW0345	1111162-05	11/22/11 11:06	295.00	200.00
GW0351	1111162-07	11/22/11 11:06	270.00	200.00
GW0274	1111177-01	11/22/11 11:06	270.00	200.00
GW0275	1111177-03	11/22/11 11:06	270.00	200.00
GW0346	1111177-05	11/22/11 11:06	290.00	200.00
GW0353	1111177-07	11/22/11 11:06	290.00	200.00
Blank	1K22021-BLK1	11/22/11 11:06	250.00	200.00
LCS	1K22021-BS1	11/22/11 11:06	3.00	250.00
LCS Dup	1K22021-BSD1	11/22/11 11:06	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K28003 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/28/11 07:44	25.00	25.00
GW0289	1111148-03	11/28/11 07:44	25.00	25.00
GW0290	1111148-05	11/28/11 07:44	25.00	25.00
GW0331	1111148-07	11/28/11 07:44	25.00	25.00
GW0332	1111148-09	11/28/11 07:44	25.00	25.00
GW0352	1111148-11	11/28/11 07:44	25.00	25.00
GW0288	1111162-01	11/28/11 07:44	25.00	25.00
Blank	1K28003-BLK1	11/28/11 07:44	25.00	25.00
LCS	1K28003-BS1	11/28/11 07:44	5.00	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K28028 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/28/11 15:08	5.00	5.00
GW0290	1111148-05	11/28/11 15:08	5.00	5.00
GW0331	1111148-07	11/28/11 15:08	5.00	5.00
GW0332	1111148-09	11/28/11 15:08	5.00	5.00
GW0352	1111148-11	11/28/11 15:08	5.00	5.00
GW0288	1111162-01	11/28/11 15:08	5.00	5.00
GW0344	1111162-03	11/28/11 15:08	5.00	5.00
GW0345	1111162-05	11/28/11 15:08	5.00	5.00
Blank	1K28028-BLK1	11/28/11 15:08	5.00	5.00
LCS	1K28028-BS1	11/28/11 15:08	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K29010 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	11/29/11 10:29	100.00	100.00
Blank	1K29010-BLK1	11/29/11 10:29	100.00	100.00
LCS	1K29010-BS1	11/29/11 10:29	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K29018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0274	1111177-01	11/29/11 16:53	5.00	5.00
GW0275	1111177-03	11/29/11 16:53	5.00	5.00
GW0346	1111177-05	11/29/11 16:53	5.00	5.00
GW0353	1111177-07	11/29/11 16:53	5.00	5.00
Blank	1K29018-BLK1	11/29/11 16:53	5.00	5.00
LCS	1K29018-BS1	11/29/11 16:53	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1K30907 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0344	1111162-03	11/30/11 07:50	25.00	25.00
GW0345	1111162-05	11/30/11 07:50	25.00	25.00
GW0351	1111162-07	11/30/11 07:50	25.00	25.00
GW0353	1111177-07	11/30/11 07:50	25.00	25.00
Blank	1K30907-BLK1	11/30/11 07:50	25.00	25.00
LCS	1K30907-BS1	11/30/11 07:50	5.00	25.00
GW0344	1K30907-MS1	11/30/11 07:50	22.50	25.00
GW0344	1K30907-MSD1	11/30/11 07:50	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L01004 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0250	1111148-01	12/01/11 08:09	4.00	20.00
GW0289	1111148-03	12/01/11 08:09	4.00	20.00
GW0290	1111148-05	12/01/11 08:09	4.00	20.00
GW0331	1111148-07	12/01/11 08:09	4.00	20.00
GW0332	1111148-09	12/01/11 08:09	4.00	20.00
GW0352	1111148-11	12/01/11 08:09	4.00	20.00
GW0288	1111162-01	12/01/11 08:09	4.00	20.00
GW0344	1111162-03	12/01/11 08:09	4.00	20.00
GW0345	1111162-05	12/01/11 08:09	4.00	20.00
GW0351	1111162-07	12/01/11 08:09	4.00	20.00
GW0274	1111177-01	12/01/11 08:09	4.00	20.00
GW0275	1111177-03	12/01/11 08:09	4.00	20.00
GW0346	1111177-05	12/01/11 08:09	4.00	20.00
Blank	1L01004-BLK1	12/01/11 08:09	20.00	20.00
LCS	1L01004-BS1	12/01/11 08:09	1.00	20.00
GW0250	1L01004-MS1	12/01/11 08:09	4.00	20.00
GW0250	1L01004-MSD1	12/01/11 08:09	4.00	20.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L01006 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0274	1111177-01	12/01/11 08:33	25.00	25.00
GW0275	1111177-03	12/01/11 08:33	25.00	25.00
GW0346	1111177-05	12/01/11 08:33	25.00	25.00
Blank	1L01006-BLK1	12/01/11 08:33	25.00	25.00
LCS	1L01006-BS1	12/01/11 08:33	5.00	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L01012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0353	1111177-07	12/01/11 10:22	4.00	20.00
Blank	1L01012-BLK1	12/01/11 10:22	20.00	20.00
LCS	1L01012-BS1	12/01/11 10:22	1.00	20.00
GW0353	1L01012-MS1	12/01/11 10:22	4.00	20.00
GW0353	1L01012-MSD1	12/01/11 10:22	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L05006 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0289	1111148-03	12/05/11 08:22	100.00	100.00
GW0290	1111148-05	12/05/11 08:22	100.00	100.00
GW0331	1111148-07	12/05/11 08:22	100.00	100.00
GW0332	1111148-09	12/05/11 08:22	100.00	100.00
GW0352	1111148-11	12/05/11 08:22	100.00	100.00
GW0288	1111162-01	12/05/11 08:22	100.00	100.00
GW0344	1111162-03	12/05/11 08:22	100.00	100.00
GW0345	1111162-05	12/05/11 08:22	100.00	100.00
GW0351	1111162-07	12/05/11 08:22	100.00	100.00
GW0274	1111177-01	12/05/11 08:22	100.00	100.00
GW0275	1111177-03	12/05/11 08:22	100.00	100.00
GW0346	1111177-05	12/05/11 08:22	100.00	100.00
GW0353	1111177-07	12/05/11 08:22	100.00	100.00
Blank	1L05006-BLK1	12/05/11 08:22	100.00	100.00
LCS	1L05006-BS1	12/05/11 08:22	100.00	100.00
GW0289	1L05006-DUP1	12/05/11 08:22	100.00	100.00
GW0290	1L05006-MS1	12/05/11 08:22	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_036

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

Batch: 1L05025 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0289	1111148-03RE1	12/05/11 15:05	5.00	5.00
GW0351	1111162-07RE1	12/05/11 15:05	5.00	5.00
Blank	1L05025-BLK1	12/05/11 15:05	5.00	5.00
LCS	1L05025-BS1	12/05/11 15:05	5.00	5.00
GW0289	1L05025-DUP1	12/05/11 15:05	5.00	5.00
GW0351	1L05025-DUP2	12/05/11 15:05	5.00	5.00
GW0289	1L05025-MS1	12/05/11 15:05	22.50	25.00
GW0351	1L05025-MS2	12/05/11 15:05	22.50	25.00
GW0289	1L05025-MSD1	12/05/11 15:05	22.50	25.00
GW0351	1L05025-MSD2	12/05/11 15:05	22.50	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1K28003-BS1	112811-003	11/28/11 13:05
Blank	1K28003-BLK1	112811-004	11/28/11 13:12
LCS	1K30907-BS1	113011-003	11/30/11 09:35
Blank	1K30907-BLK1	113011-004	11/30/11 09:45
GW0344	1K30907-MS1	113011-012	11/30/11 12:45
GW0344	1K30907-MSD1	113011-013	11/30/11 13:00
LCS	1L01006-BS1	120111-003	12/01/11 09:37
Blank	1L01006-BLK1	120111-004	12/01/11 09:45

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_036

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1K16032-BLK1	111611-004	11/16/11 17:47
LCS	1K16032-BS1	111611-002	11/16/11 17:48
LCS Dup	1K16032-BSD1	111611-003	11/16/11 17:49
LCS	1K22021-BS1	112211-002	11/22/11 14:02
LCS Dup	1K22021-BSD1	112211-003	11/22/11 14:03
Blank	1K22021-BLK1	112211-004	11/22/11 14:04

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1K33406	Instrument:	WC-Lachat
Calibration:	1334003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1K33406-CAL1	M_11-30-2011_09-19-18AM-0	11/30/11 09:20
Cal Standard	1K33406-CAL2	M_11-30-2011_09-19-18AM-0	11/30/11 09:21
Cal Standard	1K33406-CAL3	M_11-30-2011_09-19-18AM-0	11/30/11 09:22
Cal Standard	1K33406-CAL4	M_11-30-2011_09-19-18AM-0	11/30/11 09:23
Cal Standard	1K33406-CAL5	M_11-30-2011_09-19-18AM-0	11/30/11 09:24
Cal Standard	1K33406-CAL6	M_11-30-2011_09-19-18AM-0	11/30/11 09:25
Cal Standard	1K33406-CAL7	M_11-30-2011_09-19-18AM-0	11/30/11 09:26
Cal Standard	1K33406-CAL8	M_11-30-2011_09-19-18AM-0	11/30/11 09:27
Initial Cal Check	1K33406-ICV1	M_11-30-2011_09-19-18AM-0	11/30/11 09:28
Initial Cal Blank	1K33406-ICB1	M_11-30-2011_09-19-18AM-0	11/30/11 09:29
Blank	1K29010-BLK1	M_11-30-2011_09-19-18AM-0	11/30/11 09:30
LCS	1K29010-BS1	M_11-30-2011_09-19-18AM-0	11/30/11 09:31
Calibration Check	1K33406-CCV1	M_11-30-2011_09-19-18AM-0	11/30/11 09:43
Calibration Blank	1K33406-CCB1	M_11-30-2011_09-19-18AM-0	11/30/11 09:44
GW0250	1111148-01	M_11-30-2011_09-19-18AM-0	11/30/11 09:46
Calibration Blank	1K33406-CCB2	M_11-30-2011_09-19-18AM-0	11/30/11 09:55
Calibration Check	1K33406-CCV2	M_11-30-2011_09-19-18AM-0	11/30/11 09:55

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33502	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L33502-CAL1	112911-003	11/29/11 18:23
Cal Standard	1L33502-CAL2	112911-004	11/29/11 18:40
Cal Standard	1L33502-CAL3	112911-005	11/29/11 18:57
Cal Standard	1L33502-CAL4	112911-006	11/29/11 19:15
Cal Standard	1L33502-CAL5	112911-007	11/29/11 19:32
Cal Standard	1L33502-CAL6	112911-008	11/29/11 19:50
Cal Standard	1L33502-CAL7	112911-009	11/29/11 20:07
Cal Standard	1L33502-CAL8	112911-010	11/29/11 20:24
Initial Cal Check	1L33502-ICV1	112911-011	11/29/11 20:42
Initial Cal Blank	1L33502-ICB1	112911-012	11/29/11 20:59
Calibration Check	1L33502-CCV1	112911-019	11/29/11 23:01
Calibration Blank	1L33502-CCB1	112911-020	11/29/11 23:19
Instrument RL Check	1L33502-CRL1	112911-021	11/29/11 23:36
LCS	1K29018-BS1	112911-023	11/30/11 00:11
Blank	1K29018-BLK1	112911-024	11/30/11 00:28
GW0274	1111177-01	112911-027	11/30/11 01:21
GW0275	1111177-03	112911-028	11/30/11 01:38
GW0346	1111177-05	112911-029	11/30/11 01:55
GW0353	1111177-07	112911-030	11/30/11 02:13
Calibration Check	1L33502-CCV2	112911-038	11/30/11 04:32
Calibration Blank	1L33502-CCB2	112911-039	11/30/11 04:50

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33503	Instrument:	WC-Lachat
Calibration:	1335001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L33503-CAL1	M_12-1-2011_10-49-45AM-00	12/01/11 10:50
Cal Standard	1L33503-CAL2	M_12-1-2011_10-49-45AM-00	12/01/11 10:52
Cal Standard	1L33503-CAL3	M_12-1-2011_10-49-45AM-00	12/01/11 10:53
Cal Standard	1L33503-CAL4	M_12-1-2011_10-49-45AM-00	12/01/11 10:55
Cal Standard	1L33503-CAL5	M_12-1-2011_10-49-45AM-00	12/01/11 10:56
Cal Standard	1L33503-CAL6	M_12-1-2011_10-49-45AM-00	12/01/11 10:57
Cal Standard	1L33503-CAL7	M_12-1-2011_10-49-45AM-00	12/01/11 10:59
Cal Standard	1L33503-CAL8	M_12-1-2011_10-49-45AM-00	12/01/11 11:00
Initial Cal Check	1L33503-ICV1	M_12-1-2011_10-49-45AM-00	12/01/11 11:02
Initial Cal Blank	1L33503-ICB1	M_12-1-2011_10-49-45AM-01	12/01/11 11:03
Blank	1L01004-BLK1	M_12-1-2011_10-49-45AM-01	12/01/11 11:06
LCS	1L01004-BS1	M_12-1-2011_10-49-45AM-01	12/01/11 11:08
GW0250	1111148-01	M_12-1-2011_10-49-45AM-02	12/01/11 11:19
GW0250	1L01004-MS1	M_12-1-2011_10-49-45AM-02	12/01/11 11:21
GW0250	1L01004-MSD1	M_12-1-2011_10-49-45AM-02	12/01/11 11:22
GW0289	1111148-03	M_12-1-2011_10-49-45AM-02	12/01/11 11:24
GW0290	1111148-05	M_12-1-2011_10-49-45AM-02	12/01/11 11:25
Calibration Check	1L33503-CCV1	M_12-1-2011_10-49-45AM-02	12/01/11 11:28
Calibration Blank	1L33503-CCB1	M_12-1-2011_10-49-45AM-02	12/01/11 11:29
GW0331	1111148-07	M_12-1-2011_10-49-45AM-02	12/01/11 11:31
GW0332	1111148-09	M_12-1-2011_10-49-45AM-03	12/01/11 11:32
GW0352	1111148-11	M_12-1-2011_10-49-45AM-03	12/01/11 11:34
GW0288	1111162-01	M_12-1-2011_10-49-45AM-03	12/01/11 11:35
GW0344	1111162-03	M_12-1-2011_10-49-45AM-03	12/01/11 11:37
GW0345	1111162-05	M_12-1-2011_10-49-45AM-03	12/01/11 11:38
GW0351	1111162-07	M_12-1-2011_10-49-45AM-03	12/01/11 11:40
GW0274	1111177-01	M_12-1-2011_10-49-45AM-03	12/01/11 11:41
GW0275	1111177-03	M_12-1-2011_10-49-45AM-03	12/01/11 11:42
GW0346	1111177-05	M_12-1-2011_10-49-45AM-03	12/01/11 11:44
Calibration Check	1L33503-CCV2	M_12-1-2011_10-49-45AM-04	12/01/11 11:47
Calibration Blank	1L33503-CCB2	M_12-1-2011_10-49-45AM-04	12/01/11 11:48

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33606	Instrument:	WC-Lachat
Calibration:	1336002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L33606-CAL1	M_12-2-2011_10-25-00AM-00	12/02/11 10:27
Cal Standard	1L33606-CAL2	M_12-2-2011_10-25-00AM-00	12/02/11 10:28
Cal Standard	1L33606-CAL3	M_12-2-2011_10-25-00AM-00	12/02/11 10:29
Cal Standard	1L33606-CAL4	M_12-2-2011_10-25-00AM-00	12/02/11 10:31
Cal Standard	1L33606-CAL5	M_12-2-2011_10-25-00AM-00	12/02/11 10:32
Cal Standard	1L33606-CAL6	M_12-2-2011_10-25-00AM-00	12/02/11 10:34
Cal Standard	1L33606-CAL7	M_12-2-2011_10-25-00AM-00	12/02/11 10:35
Cal Standard	1L33606-CAL8	M_12-2-2011_10-25-00AM-00	12/02/11 10:37
Initial Cal Check	1L33606-ICV1	M_12-2-2011_10-25-00AM-00	12/02/11 10:38
Initial Cal Blank	1L33606-ICB1	M_12-2-2011_10-25-00AM-01	12/02/11 10:40
Blank	1L01012-BLK1	M_12-2-2011_10-25-00AM-01	12/02/11 10:42
LCS	1L01012-BS1	M_12-2-2011_10-25-00AM-01	12/02/11 10:44
Calibration Check	1L33606-CCV1	M_12-2-2011_10-25-00AM-02	12/02/11 11:02
Calibration Blank	1L33606-CCB1	M_12-2-2011_10-25-00AM-02	12/02/11 11:03
GW0353	1111177-07	M_12-2-2011_10-25-00AM-03	12/02/11 11:12
GW0353	1L01012-MS1	M_12-2-2011_10-25-00AM-03	12/02/11 11:13
GW0353	1L01012-MSD1	M_12-2-2011_10-25-00AM-03	12/02/11 11:15
Calibration Check	1L33606-CCV2	M_12-2-2011_10-25-00AM-04	12/02/11 11:23
Calibration Blank	1L33606-CCB2	M_12-2-2011_10-25-00AM-04	12/02/11 11:25

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33904	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L33904-CCV1	120211-003	12/02/11 15:39
Calibration Blank	1L33904-CCB1	120211-004	12/02/11 15:56
Instrument RL Check	1L33904-CRL1	120211-005	12/02/11 16:14
LCS	1K28028-BS1	120211-008	12/02/11 17:06
Blank	1K28028-BLK1	120211-009	12/02/11 17:24
GW0250	1111148-01	120211-018	12/02/11 20:00
Calibration Check	1L33904-CCV2	120211-023	12/02/11 21:27
Calibration Blank	1L33904-CCB2	120211-024	12/02/11 21:45
GW0290	1111148-05	120211-025	12/02/11 22:02
GW0331	1111148-07	120211-026	12/02/11 22:19
GW0332	1111148-09	120211-027	12/02/11 22:37
GW0352	1111148-11	120211-028	12/02/11 22:54
GW0288	1111162-01	120211-029	12/02/11 23:12
GW0344	1111162-03	120211-030	12/02/11 23:29
GW0345	1111162-05	120211-031	12/02/11 23:47
Calibration Check	1L33904-CCV3	120211-039	12/03/11 02:06
Calibration Blank	1L33904-CCB3	120211-040	12/03/11 02:23

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34006	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L34006-CCV1	120511-003	12/05/11 16:11
Calibration Blank	1L34006-CCB1	120511-004	12/05/11 16:29
Instrument RL Check	1L34006-CRL1	120511-005	12/05/11 16:46
LCS	1L05025-BS1	120511-008	12/05/11 17:38
Blank	1L05025-BLK1	120511-009	12/05/11 17:56
GW0289	1111148-03RE1	120511-010	12/05/11 18:13
GW0289	1L05025-MS1	120511-011	12/05/11 18:31
GW0289	1L05025-MSD1	120511-012	12/05/11 18:48
GW0289	1L05025-DUP1	120511-013	12/05/11 19:05
GW0351	1111162-07RE1	120511-014	12/05/11 19:23
GW0351	1L05025-MS2	120511-015	12/05/11 19:40
GW0351	1L05025-MSD2	120511-016	12/05/11 19:58
GW0351	1L05025-DUP2	120511-017	12/05/11 20:15
Calibration Check	1L34006-CCV2	120511-025	12/05/11 22:34
Calibration Blank	1L34006-CCB2	120511-026	12/05/11 22:52

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_036
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34015	Instrument:	WC-Lachat
Calibration:	1334005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L34015-CAL1	M_12-6-2011_03-10-09PM-00	12/06/11 15:11
Cal Standard	1L34015-CAL2	M_12-6-2011_03-10-09PM-00	12/06/11 15:12
Cal Standard	1L34015-CAL3	M_12-6-2011_03-10-09PM-00	12/06/11 15:13
Cal Standard	1L34015-CAL4	M_12-6-2011_03-10-09PM-00	12/06/11 15:14
Cal Standard	1L34015-CAL5	M_12-6-2011_03-10-09PM-00	12/06/11 15:15
Cal Standard	1L34015-CAL6	M_12-6-2011_03-10-09PM-00	12/06/11 15:16
Cal Standard	1L34015-CAL7	M_12-6-2011_03-10-09PM-00	12/06/11 15:17
Cal Standard	1L34015-CAL8	M_12-6-2011_03-10-09PM-00	12/06/11 15:18
Initial Cal Check	1L34015-ICV1	M_12-6-2011_03-10-09PM-00	12/06/11 15:19
Initial Cal Blank	1L34015-ICB1	M_12-6-2011_03-10-09PM-01	12/06/11 15:20
LCS	1L05006-BS1	M_12-6-2011_03-10-09PM-01	12/06/11 15:21
Blank	1L05006-BLK1	M_12-6-2011_03-10-09PM-01	12/06/11 15:21
GW0289	1111148-03	M_12-6-2011_03-10-09PM-01	12/06/11 15:22
GW0289	1L05006-DUP1	M_12-6-2011_03-10-09PM-01	12/06/11 15:23
GW0290	1111148-05	M_12-6-2011_03-10-09PM-01	12/06/11 15:24
GW0290	1L05006-MS1	M_12-6-2011_03-10-09PM-01	12/06/11 15:25
GW0331	1111148-07	M_12-6-2011_03-10-09PM-01	12/06/11 15:26
GW0332	1111148-09	M_12-6-2011_03-10-09PM-01	12/06/11 15:27
GW0352	1111148-11	M_12-6-2011_03-10-09PM-01	12/06/11 15:28
GW0288	1111162-01	M_12-6-2011_03-10-09PM-02	12/06/11 15:29
GW0344	1111162-03	M_12-6-2011_03-10-09PM-02	12/06/11 15:30
GW0345	1111162-05	M_12-6-2011_03-10-09PM-02	12/06/11 15:31
GW0351	1111162-07	M_12-6-2011_03-10-09PM-02	12/06/11 15:32
GW0274	1111177-01	M_12-6-2011_03-10-09PM-02	12/06/11 15:33
Calibration Check	1L34015-CCV1	M_12-6-2011_03-10-09PM-02	12/06/11 15:34
Calibration Blank	1L34015-CCB1	M_12-6-2011_03-10-09PM-02	12/06/11 15:35
GW0275	1111177-03	M_12-6-2011_03-10-09PM-02	12/06/11 15:36
GW0346	1111177-05	M_12-6-2011_03-10-09PM-02	12/06/11 15:37
GW0353	1111177-07	M_12-6-2011_03-10-09PM-02	12/06/11 15:38
Calibration Check	1L34015-CCV2	M_12-6-2011_03-10-09PM-03	12/06/11 15:45
Calibration Blank	1L34015-CCB2	M_12-6-2011_03-10-09PM-03	12/06/11 15:46