ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_055

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

SUBMITTAL TO:
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THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

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

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. Sample prep and dilution information is provided within the final results report and at the beginning of each form set. The following information is provided specific to individual methods:

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

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

SW8260B:
The following continuing calibration verifications exceeded criteria:
2G19303-CCV1 with a positive bias for Dichlorodifluoromethane

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

SW8270D BNA:
The following batch spikes exceeded criteria:
2G11005-BS1 with a negative bias for Caprolactam

The following matrix spikes exceeded criteria:
2G11005-MS1/MSD1 (1207019-07) with a negative bias for Caprolactam and exceeded relative percent difference criteria for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, and 4-Nitrophenol

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

SW8270D PAH:
The following blanks have reported results:
2G11005-BLK2 for Fluoranthene

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

SW8015B DRO:
The following surrogates exceeded the retention time window:
o-Terphenyl in 1207019-03 and 2G20011-CCV2; note – the result bias due to the retention time shift was determined to be negligible for all affected samples and QC

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

SW8015B GRO:
The following surrogates exceeded criteria:
Bromofluorobenzene with a positive bias in 1207019-01, -03, -05, -07, and -10

The following continuing calibration verifications exceeded criteria:
2G20607-CCV2 with a negative bias for Gasoline Range Organics

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

SW8011:
The following continuing calibration verifications exceeded criteria:
2G20701-CCV2 with a negative bias on column 1 for 1,2-Dibromoethane

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

SW6010B:
The following compounds are qualified with an M to indicate that the DL was raised due to interference:
Lead in 1207019-03 and -07

The following matrix spikes exceeded criteria:
2G11008-MS1/MSD1 (1207019-07) for Calcium and Sodium; note – the parent sample concentrations for Calcium and Sodium are greater than 4 times the amount spiked

2G11008-PS1 (1207019-07) with a negative bias for Lead

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

Wet Chemistry:
The following compounds are qualified with an M to indicate that the LOQ was raised to the level of the reporting limit standard within criteria:
Sulfate as SO4 (2.5 mg/L) in 1207019-01, -03, -05, -07, -10, and 1207026-01

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

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

Analytical Report Terms and Qualifiers

DL: The detection limit (DL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The DL is supported by the method detection limit (MDL) which is determined from analysis of a sample containing the analyte in a given matrix.

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.2 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.2 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: Exceeding quality control criteria are associated with the reported result.

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

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

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

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

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

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

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

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

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

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

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

S: The associated internal standard exceeded criteria.

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

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

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

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

LIMS Definitions / Naming Conventions:

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

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters

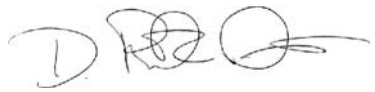
BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch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

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

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

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

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



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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

GC/MS Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1207019

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW210

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

Samples Shipment Date: 05 JUL 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618254

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Shaw	Date: 7-5-12 Time: 1430	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation) jack deville jr.	Date: 7-6-12 Time: 820

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 GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02 GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		02

JD 7-6-12

1207019

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Reference Document No: 140705-GW210

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0625	KAFB-003-WG-GW0625-FD	05 JUL 2012	12:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
03	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0626	KAFB-015-WG-GW0626-REG	05 JUL 2012	11:20	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
05	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
06	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0627	KAFB-016-WG-GW0627-REG	05 JUL 2012	11:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
07	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
08	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

JD 7-6-12

1207019

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW210

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8270C (Low Level - SIM)			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0628	ST106-VA2-WG-GW0628-REG	05 JUL 2012	09:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
08	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0628-MS	ST106-VA2-WG-GW0628-MS-MS	05 JUL 2012	09:22	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8270C (Low Level - SIM)			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8270C (Low Level - SIM)			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
08	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

1207019

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW210

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	250 mL HDPE	1	None except cool to 4 C	Ammonia by SM4500B Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0628-MSD	ST106-VA2-WG-GW0628-MSD-MSD	05 JUL 2012	09:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
09	GW8210-TB	FIELDQC-BW-GW8210-TB-TB	05 JUL 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
10	GW0623	2819-R-CRT-GW0623-Reg	7/5/12	0923	40 ml VOA VIAL	3		TPH as Gasoline by SW 8260B					
11					1000 ml A Glass	1		TPH as Diesel by SW846 8015B					
10					250 mL HDPE	1		SW846 6010C (filter in Lab)					
					250 mL HDPE	1		Total SW846 6010C					
					40 mL VOA vial	3		EDB by SW846 8011					
					40 mL VOA vial	3		VOC's by SW846 8260B					
					250 mL HDPE	1		SM2320B EPA 300					
					250 mL HPPE	1		SM4500S-2CF					
					1000 mL Glass	2		SVOC's 8270D					
					250 mL HPPE	1		SM4500B EPA 353.2					

Kirtland_055.Summ Package

Cooler Received/Opened On_ 07/06/12 @ 0820

1. Tracking #_8254_(last 4 digits, FedEx) WO# 1207019

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.4 *Degrees Celsius + correction factor - 0.2* = 1.2

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 # 1

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

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) JD

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 07/06/12 @ 0820

1. Tracking # 8265 (last 4 digits, FedEx) WO# 1207019

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.4 *Degrees Celsius + correction factor - 0.2* = 1.2

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) JD

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

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

8. Packing 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 # 2

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

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) JD

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 07/06/12 @ 0820

1. Tracking #_8276_(last 4 digits, FedEx) WO# 1207019

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened 0.6 Degrees Celsius + correction factor - 0.2 = 0.4

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) [illegible]

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

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

8. Packing 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 # 3

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

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) JD

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 07/06/12 @ 0820

1. Tracking # 8287 (last 4 digits, FedEx) WO# 1207019

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.4 *Degrees Celsius + correction factor - 0.2* = 2.2

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 # 4

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

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) JD

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 07/06/12 @ 0820

1. Tracking # 8298 (last 4 digits, FedEx) WO# 1207019

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.9 *Degrees Celsius + correction factor - 0.2* = 3.7

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 JD 7-6-12

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

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

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

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

8. Packing 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 # 5

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

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) JD

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

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

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

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

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

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

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

Additional Details:

1207026

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW211

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

Samples Shipment Date: 06 JUL 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618302

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [signature]/Shaw Date: 7-6-12 Time: 10:00
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack deville jr. Date: 7-7-12 Time: 0805

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 GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
02 GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C	02		N		

JD 7-7-12

1207026

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW211

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0624	KAFB-003-WG-GW0624-REG	06 JUL 2012	08:53	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
03 ~~02~~	GW8211-TB	FIELDQC-BW-GW8211-TB-TB	06 JUL 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B	03		N		

JP 7-7-12

Cooler Received/Opened On_ 07/07/12 @ 0805

1. Tracking # 8302 (last 4 digits, FedEx) WO# 1207026

Courier: ____FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius + correction factor -0.2* = 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: 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) JD

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

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

8. Packing 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) JD

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) JD

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

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

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

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

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

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

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

Additional Details:

WORK ORDER

Printed: 7/9/2012 5:43:10PM

1207019

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
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

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

Due to Client: 07/27/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 07/06/2012 08:20
Logged In By: Jack Deville
Date Logged In: 07/06/2012 10:03

Samples Received at: **1.2°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1207019-01 GW0625 [Water] Sampled 07/05/2012 12:10 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	07/24/2012 14:00	15	08/02/2012 13:10	
SW8015B DRO	SGC_DRO_8015B_3510	07/24/2012 14:00	15	07/12/2012 13:10	
SW8011	SGC_EDB_8011	07/24/2012 14:00	15	07/19/2012 13:10	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	07/24/2012 14:00	15	07/12/2012 13:10	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	07/24/2012 14:00	15	07/19/2012 13:10	
SW6010B	MET_ICP_6010B_FULL	07/24/2012 14:00	15	01/01/2013 13:10	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	07/24/2012 14:00	15	07/19/2012 13:10	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	07/24/2012 14:00	15	08/02/2012 13:10	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	07/24/2012 14:00	15	08/02/2012 13:10	
SM4500S2CF	WC_SULFIDE_4500S2CF	07/24/2012 14:00	15	07/12/2012 13:10	
SW8260B	VOC_8260B_REG	07/24/2012 14:00	15	07/19/2012 13:10	naphthalene must be reported
1207019-02 GW0625 [Water] Sampled 07/05/2012 12:10 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	07/24/2012 14:00	15	01/01/2013 13:10	Fe & Mn

1207019

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1207019-03 GW0626 [Water] Sampled 07/05/2012 11:20 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	07/24/2012 14:00	15	07/12/2012 12:20	
SW8260B	VOC_8260B_REG	07/24/2012 14:00	15	07/19/2012 12:20	naphthalene must be reported
SW6010B	MET_ICP_6010B_FULL	07/24/2012 14:00	15	01/01/2013 12:20	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	07/24/2012 14:00	15	07/12/2012 12:20	
SM2320B	WC_ALKALINITY_2320B	07/24/2012 14:00	15	07/19/2012 12:20	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	07/24/2012 14:00	15	08/02/2012 12:20	
E353.2	WC_NO3NO2_N_353.2	07/24/2012 14:00	15	08/02/2012 12:20	
SW8015B GRO	VGC_GRO_8015B	07/24/2012 14:00	15	07/19/2012 12:20	
SW8011	SGC_EDB_8011	07/24/2012 14:00	15	07/19/2012 12:20	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	07/24/2012 14:00	15	07/12/2012 12:20	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E300.0	WC_ANIONS_300.0 (Regular)	07/24/2012 14:00	15	08/02/2012 12:20	Cl, SO4
1207019-04 GW0626 [Water] Sampled 07/05/2012 11:20 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	07/24/2012 14:00	15	01/01/2013 12:20	Fe & Mn
1207019-05 GW0627 [Water] Sampled 07/05/2012 11:44 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL	07/24/2012 14:00	15	01/01/2013 12:44	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	07/24/2012 14:00	15	07/19/2012 12:44	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	07/24/2012 14:00	15	07/12/2012 12:44	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	07/24/2012 14:00	15	08/02/2012 12:44	
E300.0	WC_ANIONS_300.0 (Regular)	07/24/2012 14:00	15	08/02/2012 12:44	Cl, SO4
SM4500S2CF	WC_SULFIDE_4500S2CF	07/24/2012 14:00	15	07/12/2012 12:44	
SW8270D	SMS_BNA_8270D_3510_REG	07/24/2012 14:00	15	07/12/2012 12:44	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	07/24/2012 14:00	15	07/19/2012 12:44	
SW8260B	VOC_8260B_REG	07/24/2012 14:00	15	07/19/2012 12:44	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	07/24/2012 14:00	15	07/19/2012 12:44	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	07/24/2012 14:00	15	08/02/2012 12:44	
1207019-06 GW0627 [Water] Sampled 07/05/2012 11:44 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	07/24/2012 14:00	15	01/01/2013 12:44	Fe & Mn

1207019

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1207019-07 GW0628 [Water] Sampled 07/05/2012 09:22 Mountain 'Client Sample'					**MS/MSD**
SW8270D	SMS_BNA_8270D_3510_REG	07/24/2012 14:00	15	07/12/2012 10:22	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	07/24/2012 14:00	15	07/12/2012 10:22	MS/MSD
E353.2	WC_NO3NO2_N_353.2	07/24/2012 14:00	15	08/02/2012 10:22	MS/MSD
E300.0	WC_ANIONS_300.0 (Regular)	07/24/2012 14:00	15	08/02/2012 10:22	MS/MSD, Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	07/24/2012 14:00	15	08/02/2012 10:22	MS/MSD
SM2320B	WC_ALKALINITY_2320B	07/24/2012 14:00	15	07/19/2012 10:22	MS/MSD, carb/bicarb
SW8260B	VOC_8260B_REG	07/24/2012 14:00	15	07/19/2012 10:22	MS/MSD, naphthalene must be reported
SW8270D	SMS_PAH_8270D_LOW	07/24/2012 14:00	15	07/12/2012 10:22	Must be non-detect! MS/MSD
SW8011	SGC_EDB_8011	07/24/2012 14:00	15	07/19/2012 10:22	MS/MSD, Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	07/24/2012 14:00	15	07/12/2012 10:22	MS/MSD
SW6010B	MET_ICP_6010B_FULL	07/24/2012 14:00	15	01/01/2013 10:22	MS/MSD, Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	07/24/2012 14:00	15	07/19/2012 10:22	MS/MSD
1207019-08 GW0628 [Water] Sampled 07/05/2012 09:22 Mountain 'Client Sample'					**MS/MSD**
SW6010B	MET_ICP_6010B_FULL_DIS	07/24/2012 14:00	15	01/01/2013 10:22	MS/MSD, Fe & Mn
1207019-09 GW8210-TB [Water] Sampled 07/05/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	07/24/2012 14:00	15	07/19/2012 09:00	naphthalene must be reported
1207019-10 GW0623 [Water] Sampled 07/05/2012 09:23 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL	07/24/2012 14:00	15	01/01/2013 10:23	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	07/24/2012 14:00	15	07/12/2012 10:23	
SW8011	SGC_EDB_8011	07/24/2012 14:00	15	07/19/2012 10:23	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	07/24/2012 14:00	15	07/12/2012 10:23	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	07/24/2012 14:00	15	07/19/2012 10:23	
SW8260B	VOC_8260B_REG	07/24/2012 14:00	15	07/19/2012 10:23	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	07/24/2012 14:00	15	07/19/2012 10:23	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	07/24/2012 14:00	15	08/02/2012 10:23	
E300.0	WC_ANIONS_300.0 (Regular)	07/24/2012 14:00	15	08/02/2012 10:23	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	07/24/2012 14:00	15	08/02/2012 10:23	
SM4500S2CF	WC_SULFIDE_4500S2CF	07/24/2012 14:00	15	07/12/2012 10:23	
1207019-11 GW0623 [Water] Sampled 07/05/2012 09:23 Mountain 'Client Sample'					**Filter in Lab, not preserved**
SW6010B	MET_ICP_6010B_FULL_DIS	07/24/2012 14:00	15	01/01/2013 10:23	Filter in Lab, Fe & Mn

Reviewed By

Date

WORK ORDER

Printed: 7/9/2012 5:45:32PM

1207026

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
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

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

Due to Client: 07/30/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 07/07/2012 08:05
Logged In By: Jack Deville
Date Logged In: 07/07/2012 09:30

Samples Received at: **2.1°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1207026-01 GW0624 [Water] Sampled 07/06/2012 08:53 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	07/25/2012 14:00	15	07/13/2012 09:53	
E353.2	WC_NO3NO2_N_353.2	07/25/2012 14:00	15	08/03/2012 09:53	
E300.0	WC_ANIONS_300.0 (Regular)	07/25/2012 14:00	15	08/03/2012 09:53	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	07/25/2012 14:00	15	08/03/2012 09:53	
SM2320B	WC_ALKALINITY_2320B	07/25/2012 14:00	15	07/20/2012 09:53	carb/bicarb
SW8260B	VOC_8260B_REG	07/25/2012 14:00	15	07/20/2012 09:53	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	07/25/2012 14:00	15	07/20/2012 09:53	
SW8270D	SMS_BNA_8270D_3510_REG	07/25/2012 14:00	15	07/13/2012 09:53	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	07/25/2012 14:00	15	07/20/2012 09:53	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	07/25/2012 14:00	15	07/13/2012 09:53	
SW6010B	MET_ICP_6010B_FULL	07/25/2012 14:00	15	01/02/2013 09:53	Ca, Pb, K, Na, Mg
1207026-02 GW0624 [Water] Sampled 07/06/2012 08:53 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	07/25/2012 14:00	15	01/02/2013 09:53	Fe & Mn
1207026-03 GW8211-TB [Water] Sampled 07/06/2012 08:00 Central 'Trip Blank'					
SW8260B	VOC_8260B_REG	07/25/2012 14:00	15	07/20/2012 08:00	naphthalene must be reported

Reviewed By

Date

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_055

QC LEVEL: Level IV
Report Due: 7/27/2012 - 7/30/2012
Client Sample Count: 12

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF
Client Sample	7/5/2012	7/6/2012	1207019-01	GW0625	Water	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-02	GW0625	Water					
Client Sample	7/5/2012	7/6/2012	1207019-03	GW0626	Water	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-04	GW0626	Water					
Client Sample	7/5/2012	7/6/2012	1207019-05	GW0627	Water	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-06	GW0627	Water					
Client Sample	7/5/2012	7/6/2012	1207019-07	GW0628	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	7/5/2012	7/6/2012	1207019-08	GW0628	Water					
Trip Blank	7/5/2012	7/6/2012	1207019-09	GW8210-TB	Water					
Client Sample	7/5/2012	7/6/2012	1207019-10	GW0623	Water	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-11	GW0623	Water					
Client Sample	7/6/2012	7/7/2012	1207026-01	GW0624	Water	X	X	X	X	X
Client Sample	7/6/2012	7/7/2012	1207026-02	GW0624	Water					
Trip Blank	7/6/2012	7/7/2012	1207026-03	GW8211-TB	Water					

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	7/5/2012	7/6/2012	1207019-01	GW0625	Water	X	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-02	GW0625	Water	X					
Client Sample	7/5/2012	7/6/2012	1207019-03	GW0626	Water	X	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-04	GW0626	Water	X					
Client Sample	7/5/2012	7/6/2012	1207019-05	GW0627	Water	X	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-06	GW0627	Water	X					
Client Sample	7/5/2012	7/6/2012	1207019-07	GW0628	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	7/5/2012	7/6/2012	1207019-08	GW0628	Water	MS/MSD					
Trip Blank	7/5/2012	7/6/2012	1207019-09	GW8210-TB	Water					X	
Client Sample	7/5/2012	7/6/2012	1207019-10	GW0623	Water	X	X	X	X	X	X
Client Sample	7/5/2012	7/6/2012	1207019-11	GW0623	Water	X					
Client Sample	7/6/2012	7/7/2012	1207026-01	GW0624	Water	X	X	X	X	X	X
Client Sample	7/6/2012	7/7/2012	1207026-02	GW0624	Water	X					
Trip Blank	7/6/2012	7/7/2012	1207026-03	GW8211-TB	Water					X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	0701901.D
Sampled:	07/05/12 12:10	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 13:25
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	0701901.D
Sampled:	07/05/12 12:10	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 13:25
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.88	103	75 - 120	
Dibromofluoromethane	30.00	30.35	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	29.96	99.9	85 - 120	

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	0701903.D
Sampled:	07/05/12 11:20	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 13:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	0701903.D
Sampled:	07/05/12 11:20	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 13:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.76	99.2	75 - 120	
Dibromofluoromethane	30.00	29.82	99.4	85 - 115	
1,2-Dichloroethane-d4	30.00	30.76	103	70 - 120	
Toluene-d8	30.00	29.39	98.0	85 - 120	

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	0701905.D
Sampled:	07/05/12 11:44	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 14:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	0701905.D
Sampled:	07/05/12 11:44	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 14:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.94	99.8	75 - 120	
Dibromofluoromethane	30.00	30.99	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.81	99.4	70 - 120	
Toluene-d8	30.00	29.98	99.9	85 - 120	

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	0701907.D
Sampled:	07/05/12 09:22	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 12:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	0701907.D
Sampled:	07/05/12 09:22	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 12:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.37	101	75 - 120	
Dibromofluoromethane	30.00	30.27	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.94	103	70 - 120	
Toluene-d8	30.00	30.05	100	85 - 120	

ANALYSIS DATA SHEET

GW8210-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-09	File ID:	0701909.D
Sampled:	07/05/12 08:00	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 11:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW8210-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-09	File ID:	0701909.D
Sampled:	07/05/12 08:00	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 11:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.21	101	75 - 120	
Dibromofluoromethane	30.00	30.54	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.40	101	70 - 120	
Toluene-d8	30.00	30.37	101	85 - 120	

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	0701910.D
Sampled:	07/05/12 09:23	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 14:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	0701910.D
Sampled:	07/05/12 09:23	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 14:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.35	101	75 - 120	
Dibromofluoromethane	30.00	31.30	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.18	101	70 - 120	
Toluene-d8	30.00	30.55	102	85 - 120	

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	0702601.D
Sampled:	07/06/12 08:53	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 15:48
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	0702601.D
Sampled:	07/06/12 08:53	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 15:48
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.10	97.0	75 - 120	
Dibromofluoromethane	30.00	30.75	102	85 - 115	
1,2-Dichloroethane-d4	30.00	29.83	99.4	70 - 120	
Toluene-d8	30.00	29.52	98.4	85 - 120	

ANALYSIS DATA SHEET

GW8211-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-03	File ID:	0702603.D
Sampled:	07/06/12 08:00	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 12:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	0.600	0.250	0.500	1.00	J
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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW8211-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-03	File ID:	0702603.D
Sampled:	07/06/12 08:00	Prepared:	07/10/12 00:00	Analyzed:	07/10/12 12:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.66	98.9	75 - 120	
Dibromofluoromethane	30.00	30.04	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	29.95	99.8	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19303	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G19303-CCV1) ug/L				Lab File ID: SEQCCV1.D		Analyzed: 07/10/12 08:39		
Bromofluorobenzene	30.00	99.4	80 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.9	80 - 120	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.3	80 - 120	9.476	9.476	0.0000	+/-1.000	
LCS (2G10005-BS1) ug/L				Lab File ID: 0710LCS1.D		Analyzed: 07/10/12 09:07		
Bromofluorobenzene	30.00	103	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.0	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	98.5	85 - 120	9.477	9.476	0.0010	+/-1.000	
Blank (2G10005-BLK1) ug/L				Lab File ID: 0710BLK1.D		Analyzed: 07/10/12 10:33		
Bromofluorobenzene	30.00	98.6	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW8210-TB (1207019-09) ug/L				Lab File ID: 0701909.D		Analyzed: 07/10/12 11:31		
Bromofluorobenzene	30.00	101	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW8211-TB (1207026-03) ug/L				Lab File ID: 0702603.D		Analyzed: 07/10/12 12:28		
Bromofluorobenzene	30.00	98.9	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	99.8	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW0628 (1207019-07) ug/L				Lab File ID: 0701907.D		Analyzed: 07/10/12 12:57		
Bromofluorobenzene	30.00	101	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW0625 (1207019-01) ug/L				Lab File ID: 0701901.D		Analyzed: 07/10/12 13:25		
Bromofluorobenzene	30.00	103	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	9.477	9.476	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19303	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0626 (1207019-03) ug/L				Lab File ID: 0701903.D		Analyzed: 07/10/12 13:54		
Bromofluorobenzene	30.00	99.2	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.4	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW0627 (1207019-05) ug/L				Lab File ID: 0701905.D		Analyzed: 07/10/12 14:23		
Bromofluorobenzene	30.00	99.8	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW0623 (1207019-10) ug/L				Lab File ID: 0701910.D		Analyzed: 07/10/12 14:51		
Bromofluorobenzene	30.00	101	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.477	9.476	0.0010	+/-1.000	
GW0624 (1207026-01) ug/L				Lab File ID: 0702601.D		Analyzed: 07/10/12 15:48		
Bromofluorobenzene	30.00	97.0	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	9.477	9.476	0.0010	+/-1.000	
Matrix Spike (2G10005-MS1) ug/L				Lab File ID: 0701907M.D		Analyzed: 07/10/12 17:43		
Bromofluorobenzene	30.00	100	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	94.5	85 - 120	9.477	9.476	0.0010	+/-1.000	
Matrix Spike Dup (2G10005-MSD1) ug/L				Lab File ID: 0701907S.D		Analyzed: 07/10/12 18:11		
Bromofluorobenzene	30.00	101	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.2	85 - 120	9.477	9.476	0.0010	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G10005	Laboratory ID:	2G10005-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	105	105	40 - 140
Benzene	50.00	51.0	102	80 - 120
Bromobenzene	50.00	49.2	98.3	75 - 125
Bromochloromethane	50.00	49.6	99.3	65 - 130
Bromodichloromethane	50.00	48.6	97.2	75 - 120
Bromoform	50.00	51.7	103	70 - 130
Bromomethane	50.00	49.2	98.5	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	116	116	30 - 150
sec-Butylbenzene	50.00	49.5	99.0	70 - 125
tert-Butylbenzene	50.00	50.4	101	70 - 130
Carbon disulfide	50.00	46.9	93.9	35 - 160
Carbon tetrachloride	50.00	49.9	99.8	65 - 140
Chlorobenzene	50.00	47.1	94.2	80 - 120
Chloroethane	50.00	51.6	103	60 - 135
Chloroform	50.00	46.9	93.8	65 - 135
Chloromethane	50.00	53.0	106	40 - 125
2-Chlorotoluene	50.00	49.2	98.3	75 - 125
4-Chlorotoluene	50.00	48.9	97.8	75 - 130
Dibromochloromethane	50.00	48.0	96.0	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.5	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.4	101	80 - 120
Dibromomethane	50.00	49.2	98.5	75 - 125
1,2-Dichlorobenzene	50.00	48.6	97.2	70 - 120
1,3-Dichlorobenzene	50.00	48.6	97.1	75 - 125
1,4-Dichlorobenzene	50.00	50.2	100	75 - 125
Dichlorodifluoromethane	50.00	61.6	123	30 - 155
1,1-Dichloroethane	50.00	49.4	98.8	70 - 135
1,2-Dichloroethane	50.00	47.9	95.9	70 - 130
1,1-Dichloroethene	50.00	46.1	92.1	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G10005	Laboratory ID:	2G10005-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	50.9	102	70 - 125
trans-1,2-Dichloroethene	50.00	49.6	99.1	60 - 140
1,2-Dichloropropane	50.00	52.9	106	75 - 125
1,3-Dichloropropane	50.00	50.6	101	75 - 125
2,2-Dichloropropane	50.00	53.3	107	70 - 135
1,1-Dichloropropene	50.00	50.4	101	75 - 130
cis-1,3-Dichloropropene	50.00	53.4	107	70 - 130
trans-1,3-Dichloropropene	50.00	51.4	103	55 - 140
Ethylbenzene	50.00	49.1	98.2	75 - 125
Hexachlorobutadiene	50.00	51.0	102	50 - 140
2-Hexanone	100.0	118	118	55 - 130
Isopropylbenzene	50.00	47.5	95.1	75 - 125
p-Isopropyltoluene	50.00	47.4	94.7	75 - 130
Methylene chloride	50.00	46.2	92.5	55 - 140
Naphthalene	50.00	52.8	106	55 - 140
4-Methyl-2-pentanone	100.0	118	118	60 - 135
Methyl t-Butyl Ether	50.00	51.3	103	65 - 125
n-Propylbenzene	50.00	49.0	98.1	70 - 130
Styrene	50.00	51.1	102	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.4	98.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	49.8	99.5	80 - 130
Tetrachloroethene	50.00	48.2	96.3	45 - 150
Toluene	50.00	50.3	101	75 - 120
1,2,3-Trichlorobenzene	50.00	52.6	105	55 - 140
1,2,4-Trichlorobenzene	50.00	51.1	102	65 - 135
1,1,2-Trichloroethane	50.00	53.3	107	75 - 125
1,1,1-Trichloroethane	50.00	50.3	101	65 - 130
Trichloroethene	50.00	49.4	98.7	70 - 125
Trichlorofluoromethane	50.00	50.3	101	60 - 145
1,2,3-Trichloropropane	50.00	51.4	103	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G10005	Laboratory ID:	2G10005-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.6	105	75 - 130
1,2,4-Trimethylbenzene	50.00	50.7	101	75 - 130
Vinyl chloride	50.00	52.0	104	50 - 145
Xylenes (total)	150.0	147	98.2	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G10005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	116	116		40 - 140
Benzene	50.00	ND	51.6	103		80 - 120
Bromobenzene	50.00	ND	46.8	93.6		75 - 125
Bromochloromethane	50.00	ND	50.0	99.9		65 - 130
Bromodichloromethane	50.00	ND	50.7	101		75 - 120
Bromoform	50.00	ND	50.8	102		70 - 130
Bromomethane	50.00	ND	49.4	98.7		30 - 145
n-Butylbenzene	50.00	ND	48.5	97.1		70 - 135
2-Butanone	100.0	ND	120	120		30 - 150
sec-Butylbenzene	50.00	ND	47.8	95.5		70 - 125
tert-Butylbenzene	50.00	ND	47.3	94.7		70 - 130
Carbon disulfide	50.00	ND	47.7	95.5		35 - 160
Carbon tetrachloride	50.00	ND	52.6	105		65 - 140
Chlorobenzene	50.00	ND	47.1	94.1		80 - 120
Chloroethane	50.00	ND	55.5	111		60 - 135
Chloroform	50.00	ND	48.7	97.5		65 - 135
Chloromethane	50.00	ND	54.3	109		40 - 125
2-Chlorotoluene	50.00	ND	47.4	94.7		75 - 125
4-Chlorotoluene	50.00	ND	46.2	92.5		75 - 130
Dibromochloromethane	50.00	ND	48.6	97.3		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	51.5	103		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	49.8	99.5		80 - 120
Dibromomethane	50.00	ND	50.5	101		75 - 125
1,2-Dichlorobenzene	50.00	ND	47.5	94.9		70 - 120
1,3-Dichlorobenzene	50.00	ND	45.7	91.4		75 - 125
1,4-Dichlorobenzene	50.00	ND	47.1	94.2		75 - 125
Dichlorodifluoromethane	50.00	ND	61.2	122		30 - 155
1,1-Dichloroethane	50.00	ND	52.3	105		70 - 135
1,2-Dichloroethane	50.00	ND	52.0	104		70 - 130
1,1-Dichloroethene	50.00	ND	46.7	93.4		70 - 130
cis-1,2-Dichloroethene	50.00	ND	51.1	102		70 - 125
trans-1,2-Dichloroethene	50.00	ND	50.4	101		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G10005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	50.00	ND	53.0	106		75 - 125
1,3-Dichloropropane	50.00	ND	50.3	101		75 - 125
2,2-Dichloropropane	50.00	ND	50.6	101		70 - 135
1,1-Dichloropropene	50.00	ND	52.2	104		75 - 130
cis-1,3-Dichloropropene	50.00	ND	54.6	109		70 - 130
trans-1,3-Dichloropropene	50.00	ND	50.6	101		55 - 140
Ethylbenzene	50.00	ND	48.4	96.9		75 - 125
Hexachlorobutadiene	50.00	ND	42.4	84.7		50 - 140
2-Hexanone	100.0	ND	125	125		55 - 130
Isopropylbenzene	50.00	ND	45.2	90.4		75 - 125
p-Isopropyltoluene	50.00	ND	45.5	91.0		75 - 130
Methylene chloride	50.00	ND	48.3	96.6		55 - 140
Naphthalene	50.00	ND	50.0	100		55 - 140
4-Methyl-2-pentanone	100.0	ND	127	127		60 - 135
Methyl t-Butyl Ether	50.00	ND	52.9	106		65 - 125
n-Propylbenzene	50.00	ND	46.6	93.2		70 - 130
Styrene	50.00	ND	48.8	97.7		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	49.9	99.8		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	48.8	97.6		80 - 130
Tetrachloroethene	50.00	ND	45.7	91.4		45 - 150
Toluene	50.00	ND	48.6	97.1		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	46.9	93.8		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	45.4	90.9		65 - 135
1,1,2-Trichloroethane	50.00	ND	54.0	108		75 - 125
1,1,1-Trichloroethane	50.00	ND	52.5	105		65 - 130
Trichloroethene	50.00	ND	51.0	102		70 - 125
Trichlorofluoromethane	50.00	ND	51.8	104		60 - 145
1,2,3-Trichloropropane	50.00	ND	53.0	106		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	49.4	98.7		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	49.1	98.2		75 - 130
Vinyl chloride	50.00	ND	57.3	115		50 - 145
Xylenes (total)	150.0	ND	144	96.0		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G10005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	107	107	7.77		30	40 - 140
Benzene	50.00	47.8	95.7	7.56		30	80 - 120
Bromobenzene	50.00	46.0	92.0	1.72		30	75 - 125
Bromochloromethane	50.00	49.2	98.4	1.53		30	65 - 130
Bromodichloromethane	50.00	49.0	97.9	3.45		30	75 - 120
Bromoform	50.00	50.1	100	1.39		30	70 - 130
Bromomethane	50.00	47.4	94.9	3.97		30	30 - 145
n-Butylbenzene	50.00	46.5	93.0	4.27		30	70 - 135
2-Butanone	100.0	117	117	2.30		30	30 - 150
sec-Butylbenzene	50.00	46.3	92.6	3.11		30	70 - 125
tert-Butylbenzene	50.00	45.6	91.1	3.85		30	70 - 130
Carbon disulfide	50.00	44.6	89.2	6.74		30	35 - 160
Carbon tetrachloride	50.00	48.8	97.6	7.61		30	65 - 140
Chlorobenzene	50.00	44.1	88.3	6.45		30	80 - 120
Chloroethane	50.00	51.4	103	7.60		30	60 - 135
Chloroform	50.00	46.2	92.4	5.37		30	65 - 135
Chloromethane	50.00	52.6	105	3.22		30	40 - 125
2-Chlorotoluene	50.00	46.5	92.9	1.92		30	75 - 125
4-Chlorotoluene	50.00	45.4	90.7	1.90		30	75 - 130
Dibromochloromethane	50.00	47.5	95.1	2.29		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.5	101	1.94		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.3	98.5	1.01		30	80 - 120
Dibromomethane	50.00	50.1	100	0.796		30	75 - 125
1,2-Dichlorobenzene	50.00	46.2	92.3	2.78		30	70 - 120
1,3-Dichlorobenzene	50.00	45.2	90.4	1.08		30	75 - 125
1,4-Dichlorobenzene	50.00	45.3	90.6	3.83		30	75 - 125
Dichlorodifluoromethane	50.00	56.8	114	7.42		30	30 - 155
1,1-Dichloroethane	50.00	47.9	95.8	8.82		30	70 - 135
1,2-Dichloroethane	50.00	49.2	98.3	5.63		30	70 - 130
1,1-Dichloroethene	50.00	44.4	88.7	5.10		30	70 - 130
cis-1,2-Dichloroethene	50.00	49.5	98.9	3.18		30	70 - 125
trans-1,2-Dichloroethene	50.00	46.8	93.5	7.45		30	60 - 140
1,2-Dichloropropane	50.00	51.1	102	3.77		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G10005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	49.5	99.1	1.46		30	75 - 125
2,2-Dichloropropane	50.00	47.4	94.8	6.59		30	70 - 135
1,1-Dichloropropene	50.00	47.8	95.5	9.00		30	75 - 130
cis-1,3-Dichloropropene	50.00	52.0	104	4.88		30	70 - 130
trans-1,3-Dichloropropene	50.00	48.8	97.5	3.72		30	55 - 140
Ethylbenzene	50.00	46.0	91.9	5.23		30	75 - 125
Hexachlorobutadiene	50.00	42.2	84.4	0.402		30	50 - 140
2-Hexanone	100.0	119	119	4.67		30	55 - 130
Isopropylbenzene	50.00	43.6	87.2	3.63		30	75 - 125
p-Isopropyltoluene	50.00	43.6	87.1	4.38		30	75 - 130
Methylene chloride	50.00	46.1	92.1	4.75		30	55 - 140
Naphthalene	50.00	49.7	99.4	0.582		30	55 - 140
4-Methyl-2-pentanone	100.0	121	121	4.81		30	60 - 135
Methyl t-Butyl Ether	50.00	50.3	101	5.10		30	65 - 125
n-Propylbenzene	50.00	45.4	90.9	2.48		30	70 - 130
Styrene	50.00	45.9	91.8	6.19		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.0	98.0	1.78		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	46.7	93.3	4.46		30	80 - 130
Tetrachloroethene	50.00	43.5	87.0	4.89		30	45 - 150
Toluene	50.00	45.6	91.2	6.35		30	75 - 120
1,2,3-Trichlorobenzene	50.00	46.2	92.4	1.52		30	55 - 140
1,2,4-Trichlorobenzene	50.00	45.8	91.6	0.789		30	65 - 135
1,1,2-Trichloroethane	50.00	51.7	103	4.43		30	75 - 125
1,1,1-Trichloroethane	50.00	48.9	97.8	7.12		30	65 - 130
Trichloroethene	50.00	47.0	94.0	8.11		30	70 - 125
Trichlorofluoromethane	50.00	49.1	98.3	5.31		30	60 - 145
1,2,3-Trichloropropane	50.00	50.5	101	4.91		30	75 - 125
1,3,5-Trimethylbenzene	50.00	48.0	96.0	2.86		30	75 - 130
1,2,4-Trimethylbenzene	50.00	47.3	94.5	3.84		30	75 - 130
Vinyl chloride	50.00	53.7	107	6.54		30	50 - 145
Xylenes (total)	150.0	136	91.0	5.37		30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G10005 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/10/12 00:00	5.00	5.00
GW0626	1207019-03	07/10/12 00:00	5.00	5.00
GW0627	1207019-05	07/10/12 00:00	5.00	5.00
GW0628	1207019-07	07/10/12 00:00	5.00	5.00
GW8210-TB	1207019-09	07/10/12 00:00	5.00	5.00
GW0623	1207019-10	07/10/12 00:00	5.00	5.00
GW0624	1207026-01	07/10/12 00:00	5.00	5.00
GW8211-TB	1207026-03	07/10/12 00:00	5.00	5.00
Blank	2G10005-BLK1	07/10/12 00:00	5.00	5.00
LCS	2G10005-BS1	07/10/12 00:00	5.00	5.00
GW0628	2G10005-MS1	07/10/12 00:00	5.00	5.00
GW0628	2G10005-MSD1	07/10/12 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	07/05/12
Instrument ID:	MS-VOA3	Injection Time:	07:07
Sequence:	2G18803	Lab Sample ID:	2G18803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16	PASS
75	30 - 60% of 95	45.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.84	PASS
173	Less than 2% of 174	0.636	PASS
174	50 - 200% of 95	99.8	PASS
175	5 - 9% of 174	7.48	PASS
176	95 - 101% of 174	95.8	PASS
177	5 - 9% of 176	6.21	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	07/10/12
Instrument ID:	MS-VOA3	Injection Time:	08:09
Sequence:	2G19303	Lab Sample ID:	2G19303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.7	PASS
75	30 - 60% of 95	43.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.66	PASS
173	Less than 2% of 174	0.225	PASS
174	50 - 200% of 95	98.7	PASS
175	5 - 9% of 174	7.02	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	6.18	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G18803	Instrument:	MS-VOA3
Calibration:	2191002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G18803-TUN1	SEQTUN1.D	07/05/12 07:07
Cal Standard	2G18803-CAL1	SEQCAL1.D	07/05/12 08:34
Cal Standard	2G18803-CAL2	SEQCAL2.D	07/05/12 09:03
Cal Standard	2G18803-CAL3	SEQCAL3.D	07/05/12 09:32
Cal Standard	2G18803-CAL4	SEQCAL4.D	07/05/12 10:00
Cal Standard	2G18803-CAL5	SEQCAL5.D	07/05/12 10:29
Cal Standard	2G18803-CAL6	SEQCAL6.D	07/05/12 10:57
Cal Standard	2G18803-CAL7	SEQCAL7.D	07/05/12 11:26
Cal Standard	2G18803-CAL8	SEQCAL8.D	07/05/12 11:55
Cal Standard	2G18803-CAL9	SEQCAL9.D	07/05/12 12:23
Initial Cal Check	2G18803-ICV2	SEQICV2.D	07/05/12 13:49

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19303	Instrument:	MS-VOA3
Calibration:	2191002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G19303-TUN1	SEQTUN1.D	07/10/12 08:09
Calibration Check	2G19303-CCV1	SEQCCV1.D	07/10/12 08:39
LCS	2G10005-BS1	0710LCS1.D	07/10/12 09:07
Blank	2G10005-BLK1	0710BLK1.D	07/10/12 10:33
GW8210-TB	1207019-09	0701909.D	07/10/12 11:31
GW8211-TB	1207026-03	0702603.D	07/10/12 12:28
GW0628	1207019-07	0701907.D	07/10/12 12:57
GW0625	1207019-01	0701901.D	07/10/12 13:25
GW0626	1207019-03	0701903.D	07/10/12 13:54
GW0627	1207019-05	0701905.D	07/10/12 14:23
GW0623	1207019-10	0701910.D	07/10/12 14:51
GW0624	1207026-01	0702601.D	07/10/12 15:48
GW0628	2G10005-MS1	0701907M.D	07/10/12 17:43
GW0628	2G10005-MSD1	0701907S.D	07/10/12 18:11

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19303	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G19303-CCV1)			Lab File ID: SEQCCV1.D			Analyzed: 07/10/12 08:39			
Fluorobenzene	325343	7.767	330232	7.767	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	136157	10.912	132381	10.912	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	178029	13.321	171372	13.322	104	50 - 200	-0.0010	+/-0.50	
LCS (2G10005-BS1)			Lab File ID: 0710LCS1.D			Analyzed: 07/10/12 09:07			
Fluorobenzene	326356	7.767	325343	7.767	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	131408	10.912	136157	10.912	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	171301	13.321	178029	13.321	96	50 - 200	0.0000	+/-0.50	
Blank (2G10005-BLK1)			Lab File ID: 0710BLK1.D			Analyzed: 07/10/12 10:33			
Fluorobenzene	307001	7.767	325343	7.767	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	125157	10.912	136157	10.912	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	162258	13.322	178029	13.321	91	50 - 200	0.0010	+/-0.50	
GW8210-TB (1207019-09)			Lab File ID: 0701909.D			Analyzed: 07/10/12 11:31			
Fluorobenzene	310708	7.767	325343	7.767	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	124189	10.912	136157	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	159482	13.321	178029	13.321	90	50 - 200	0.0000	+/-0.50	
GW8211-TB (1207026-03)			Lab File ID: 0702603.D			Analyzed: 07/10/12 12:28			
Fluorobenzene	307771	7.767	325343	7.767	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	122994	10.912	136157	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	157401	13.321	178029	13.321	88	50 - 200	0.0000	+/-0.50	
GW0628 (1207019-07)			Lab File ID: 0701907.D			Analyzed: 07/10/12 12:57			
Fluorobenzene	304835	7.767	325343	7.767	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	122979	10.912	136157	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	157598	13.321	178029	13.321	89	50 - 200	0.0000	+/-0.50	
GW0625 (1207019-01)			Lab File ID: 0701901.D			Analyzed: 07/10/12 13:25			
Fluorobenzene	302489	7.767	325343	7.767	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	120053	10.912	136157	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	154673	13.322	178029	13.321	87	50 - 200	0.0010	+/-0.50	
GW0626 (1207019-03)			Lab File ID: 0701903.D			Analyzed: 07/10/12 13:54			
Fluorobenzene	302365	7.767	325343	7.767	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	123498	10.912	136157	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	153822	13.322	178029	13.321	86	50 - 200	0.0010	+/-0.50	
GW0627 (1207019-05)			Lab File ID: 0701905.D			Analyzed: 07/10/12 14:23			
Fluorobenzene	300407	7.767	325343	7.767	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	122049	10.912	136157	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	155066	13.322	178029	13.321	87	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19303	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0623 (1207019-10)			Lab File ID: 0701910.D			Analyzed: 07/10/12 14:51			
Fluorobenzene	293154	7.767	325343	7.767	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	117686	10.912	136157	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	148529	13.322	178029	13.321	83	50 - 200	0.0010	+/-0.50	
GW0624 (1207026-01)			Lab File ID: 0702601.D			Analyzed: 07/10/12 15:48			
Fluorobenzene	297250	7.767	325343	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	119218	10.912	136157	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	149533	13.322	178029	13.321	84	50 - 200	0.0010	+/-0.50	
Matrix Spike (2G10005-MS1)			Lab File ID: 0701907M.D			Analyzed: 07/10/12 17:43			
Fluorobenzene	299125	7.767	325343	7.767	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	124980	10.912	136157	10.912	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	162499	13.321	178029	13.321	91	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (2G10005-MSD1)			Lab File ID: 0701907S.D			Analyzed: 07/10/12 18:11			
Fluorobenzene	306173	7.767	325343	7.767	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	126454	10.912	136157	10.912	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	162293	13.321	178029	13.321	91	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2191002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/5/12 8:34 7/5/12 12:23

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		2		4	6.097316E-02	10	5.260969E-02	20	5.255886E-02	100	5.380874E-02
Acrolein	2.508	0.033542	5.015	2.791999E-02	10.03	2.435327E-02	25.08	2.809176E-02	50.15	2.481918E-02	250.8	2.989722E-02
Acrylonitrile	2.498	4.988655E-02	4.997	6.822731E-02	9.994	6.647098E-02	24.98	7.423668E-02	49.97	6.695657E-02	249.8	7.782108E-02
Benzene	0.5	0.8997871	1	0.9814676	2	0.9349836	5	0.9797687	10	0.9560996	50	1.012742
Bromobenzene	0.5	0.6196325	1	0.7874808	2	0.7552951	5	0.7454432	10	0.7145867	50	0.7708215
Bromochloromethane	0.5	0.1230007	1	0.1552901	2	0.1564638	5	0.1551724	10	0.1567596	50	0.161186
Tert-Amyl Methyl Ether	0.5	0.5838255	1	0.6608657	2	0.6422568	5	0.6949622	10	0.6642328	50	0.7112109
Bromodichloromethane	0.5	0.2980913	1	0.3500947	2	0.33753	5	0.3623927	10	0.3520236	50	0.3807416
Bromoform	0.5	0.4585859	1	0.5546909	2	0.5429071	5	0.5537607	10	0.5752307	50	0.6135929
Bromomethane	0.5	~~0.4505589~~	1	0.3075259	2	0.2356918	5	0.206249	10	0.1845315	50	0.1584937
Bromofluorobenzene	30	0.9634457	35	0.939782	40	0.9251008	50	0.9377048	60	0.9403974	70	0.9404971
n-Butylbenzene	0.5	1.383757	1	1.510104	2	1.533243	5	1.550897	10	1.48957	50	1.596092
2-Butanone	1		2	9.172327E-02	4	7.811607E-02	10	9.149802E-02	20	9.099316E-02	100	9.253895E-02
sec-Butylbenzene	0.5	1.965546	1	2.063271	2	2.16017	5	2.165331	10	2.135506	50	2.233114
tert-Butylbenzene	0.5	1.61846	1	1.811337	2	1.777861	5	1.908717	10	1.779306	50	1.942483
Carbon disulfide	0.5	0.4893412	1	0.6145746	2	0.6340097	5	0.643219	10	0.6397078	50	0.6547538
Carbon tetrachloride	0.5	0.3049352	1	0.3267105	2	0.3440165	5	0.3517089	10	0.3409635	50	0.3746896
Chlorobenzene	0.5	1.775403	1	2.079179	2	1.992934	5	1.978851	10	1.951372	50	2.039041
Chloroethane	0.5	0.1153963	1	0.1449819	2	0.135151	5	0.1495163	10	0.1405999	50	0.1464178
Chloroform	0.5	0.4670984	1	0.4689245	2	0.4777775	5	0.4806765	10	0.4543904	50	0.4640465
2-Chloroethyl vinyl ether	0.9975	0.1172102	1.995	0.1355376	3.99	0.1391127	9.975	0.146464	19.95	0.1454924	99.75	0.1628907
Chloromethane	0.5	0.2165344	1	0.1924184	2	0.1814369	5	0.183415	10	0.1819021	50	0.1868036
1-Chlorohexane	0.5	1.015406	1	0.9335635	2	0.892297	5	0.8685279	10	0.8220462	50	0.8658595
2-Chlorotoluene	0.5	1.449504	1	1.569338	2	1.665341	5	1.735301	10	1.642059	50	1.719376
4-Chlorotoluene	0.5	1.691471	1	1.931868	2	1.972512	5	1.989894	10	1.840045	50	1.963878
Cyclohexane	0.5	0.2771793	1	0.3082895	2	0.2785028	5	0.3035079	10	0.2959465	50	0.3123881
Dibromochloromethane	0.5	0.7187867	1	0.8426147	2	0.7791276	5	0.7914468	10	0.7943876	50	0.8436018
1,2-Dibromo-3-chloropropane	0.5	0.1181163	1	0.1732045	2	0.1815057	5	0.1680876	10	0.1598948	50	0.1765298
1,2-Dibromoethane (EDB)	0.5	0.5707166	1	0.6531783	2	0.6318427	5	0.6699192	10	0.6622388	50	0.7054671
Dibromomethane	0.5	0.1296545	1	0.1628303	2	0.1553518	5	0.1670751	10	0.1652278	50	0.1700181
1,2-Dichlorobenzene	0.5	1.169313	1	1.273916	2	1.267464	5	1.324379	10	1.274119	50	1.350077

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 2191002

Instrument: MS-VOA3

Matrix: Water

Calibration Dates: 7/5/12 8:34 7/5/12 12:23

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	1.194159	1	1.35377	2	1.364136	5	1.407725	10	1.312047	50	1.373715
1,4-Dichlorobenzene	0.5	1.311129	1	1.356956	2	1.400214	5	1.378399	10	1.374846	50	1.427513
Dichlorodifluoromethane	0.5	0.1195787	1	0.15634	2	0.1487263	5	0.1550201	10	0.1799745	50	0.1830251
1,1-Dichloroethane	0.5	0.3672911	1	0.4138523	2	0.4171287	5	0.4089749	10	0.4139022	50	0.424876
1,2-Dichloroethane	0.5	0.2693848	1	0.3500947	2	0.31214	5	0.33455	10	0.3208645	50	0.3375178
1,1-Dichloroethene	0.5	0.2182454	1	0.2335555	2	0.2188269	5	0.2331205	10	0.2246547	50	0.2335517
cis-1,2-Dichloroethene	0.5	0.2344047	1	0.2819465	2	0.2791514	5	0.2892248	10	0.2741912	50	0.2926785
trans-1,2-Dichloroethene	0.5	0.2226179	1	0.2761243	2	0.2702093	5	0.2647529	10	0.2629627	50	0.272896
1,2-Dichloroethene (total)	1	0.2285113	2	0.2790354	4	0.2746804	10	0.2769889	20	0.268577	100	0.2827873
1,2-Dichloropropane	0.5	0.1912499	1	0.213321	2	0.2196609	5	0.2311589	10	0.2290619	50	0.241492
1,3-Dichloropropane	0.5	0.8539186	1	0.9705267	2	0.976174	5	0.9998599	10	0.9568755	50	1.02466
2,2-Dichloropropane	0.5	0.2817419	1	0.33196	2	0.3284026	5	0.3448911	10	0.322633	50	0.3475296
1,1-Dichloropropene	0.5	0.2849738	1	0.3100075	2	0.3217771	5	0.3426248	10	0.3325141	50	0.3511455
cis-1,3-Dichloropropene	0.5	0.3034144	1	0.3646024	2	0.366534	5	0.3989005	10	0.3773159	50	0.4112745
trans-1,3-Dichloropropene	0.5	~~0.5975513~~	1	0.9530178	2	0.8980613	5	0.9451889	10	0.9610029	50	1.042116
Diisopropyl Ether	0.5	0.6258396	1	0.7131699	2	0.6809442	5	0.70995	10	0.690021	50	0.7470329
Ethylbenzene	0.5	2.676282	1	2.988182	2	3.101688	5	3.042999	10	3.048011	50	3.156418
Ethyl tert-Butyl Ether	0.5	0.5855365	1	0.6332819	2	0.6573148	5	0.6900107	10	0.6557178	50	0.7100985
Ethyl Methacrylate	0.5	~~0.4772744~~	1	0.5721998	2	0.5965508	5	0.6434474	10	0.6898024	50	0.7773219
Hexachlorobutadiene	0.5	0.3092429	1	0.3394734	2	0.3009248	5	0.316919	10	0.2922644	50	0.3130767
2-Hexanone	1	0.2781704	2	0.286951	4	0.3177448	10	0.314137	20	0.3076476	100	0.3459487
Iodomethane	0.5		1	0.1620667	2	0.1865334	5	0.2724849	10	0.2870198	50	0.3761592
Isopropylbenzene	0.5	2.281429	1	2.578912	2	2.705124	5	2.726084	10	2.72472	50	2.926596
p-Isopropyltoluene	0.5	1.70485	1	1.950426	2	1.961977	5	2.037888	10	1.963529	50	2.069596
Methylene chloride	0.5	0.2901067	1	0.2910138	2	0.2555684	5	0.2662003	10	0.2599497	50	0.2579241
Methyl Acetate	0.5		1	0.1277063	2	0.1280622	5	0.1263966	10	0.130017	50	0.1355085
Methylcyclohexane	0.5	0.2547464	1	0.3154479	2	0.2725259	5	0.2960997	10	0.2881895	50	0.3007553
Naphthalene	0.5	1.745751	1	1.973107	2	2.093515	5	2.098118	10	2.189346	50	2.406961
Methyl Methacrylate	0.5	0.154939	1	0.150136	2	0.1574831	5	0.1722741	10	0.1655365	50	0.1881198
4-Methyl-2-pentanone	1	0.1709082	2	0.18044	4	0.1625102	10	0.1869192	20	0.1820939	100	0.1993385
Methyl t-Butyl Ether	0.5	0.5182378	1	0.5898541	2	0.567801	5	0.6060637	10	0.5776889	50	0.625382

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2191002
Instrument: MS-VOA3
Matrix: Water
Calibration Dates: 7/5/12 8:34 7/5/12 12:23

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.328305	1	2.44717	2	2.525419	5	2.597457	10	2.525246	50	2.695536
Styrene	0.5	1.645542	1	2.047809	2	2.116573	5	2.229563	10	2.191285	50	2.332175
1,1,2,2-Tetrachloroethane	0.5	0.5955506	1	0.6270229	2	0.6132228	5	0.6275908	10	0.5923854	50	0.6179505
1,1,1,2-Tetrachloroethane	0.5	0.6756595	1	0.7168912	2	0.7093673	5	0.7139456	10	0.7407785	50	0.7603552
tert-Butyl alcohol	2.5		5		10	7.209289E-03	25	1.174648E-02	50	0.0112959	250	1.396423E-02
Tetrachloroethene	0.5	0.777248	1	0.8097855	2	0.7823039	5	0.8146039	10	0.829542	50	0.8261186
Toluene	0.5	1.344131	1	1.66845	2	1.627545	5	1.657454	10	1.705292	50	1.728974
1,2,3-Trichlorobenzene	0.5	0.6853801	1	0.7098762	2	0.7412184	5	0.7632295	10	0.7314558	50	0.8014235
1,2,4-Trichlorobenzene	0.5	0.7813257	1	0.7852314	2	0.7929573	5	0.8553947	10	0.7867046	50	0.8561611
1,1,2-Trichloroethane	0.5	0.3464552	1	0.4168085	2	0.4330317	5	0.4389094	10	0.4607538	50	0.4888882
1,1,1-Trichloroethane	0.5	0.3157715	1	0.3859822	2	0.3807116	5	0.4049375	10	0.3885351	50	0.4051739
Tetrahydrofuran	0.5		1		2	7.088825E-03	5	2.323396E-02	10	2.585368E-02	50	2.662907E-02
Trichloroethene	0.5	0.2207168	1	0.2339373	2	0.271414	5	0.2592301	10	0.2602772	50	0.2697682
Trichlorofluoromethane	0.5	0.3317406	1	0.3570622	2	0.3572675	5	0.3880453	10	0.3588262	50	0.3717525
1,2,3-Trichloropropane	0.5	0.203177	1	0.2572832	2	0.2683361	5	0.2699472	10	0.2656024	50	0.2722116
1,3,5-Trimethylbenzene	0.5	1.587498	1	1.793342	2	1.87817	5	1.940541	10	1.857582	50	1.960811
1,2,4-Trimethylbenzene	0.5	1.720522	1	1.874133	2	1.963655	5	2.069308	10	1.996996	50	2.124006
1,1,2-Trichloro-1,2,2-trifluoroethar	0.5	0.1821247	1	0.1865962	2	0.2294833	5	0.2240935	10	0.2217447	50	0.2292945
Vinyl chloride	0.5	0.2041773	1	0.2087396	2	0.2023327	5	0.2099055	10	0.2092997	50	0.2083585
m,p-Xylene	1	2.017155	2	2.307159	4	2.409143	10	2.449764	20	2.414664	100	2.469933
o-Xylene	0.5	2.153006	1	2.367103	2	2.465845	5	2.537327	10	2.478758	50	2.560011
Vinyl acetate	0.996		1.992	0.3443135	3.984	0.3380017	9.96	0.3747087	19.92	0.367628	99.62	0.4328692
Xylenes (total)	1.5	2.062439	3	2.32714	6	2.428044	15	2.478952	30	2.436029	150	2.499959
Dibromofluoromethane	30	0.2669546	35	0.2721183	40	0.2636556	50	0.2734676	60	0.2744267	70	0.2754492
1,2-Dichloroethane-d4	30	6.802426E-02	35	6.706284E-02	40	6.472144E-02	50	6.806599E-02	60	6.982115E-02	70	7.258017E-02
Toluene-d8	30	2.3984	35	2.405164	40	2.327036	50	2.361245	60	2.457903	70	2.409101
tert-Amyl alcohol	2.5		5		10	7.718943E-03	25	7.343456E-03	50	7.974124E-03	250	1.115755E-02
tert-Amyl ethyl ether	0.5	0.4266052	1	0.5000398	2	0.5062718	5	0.5269539	10	0.5120582	50	0.5500866

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2191002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/5/12 8:34 7/5/12 12:23

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	0.0550463	300	5.730917E-02	400	5.483517E-02						
Acrolein	501.5	3.004269E-02	752.2	3.087259E-02	1003	2.979664E-02						
Acrylonitrile	499.7	7.775348E-02	749.6	8.117448E-02	999.4	7.967348E-02						
Benzene	100	1.044219	150	1.025187	200	1.01452						
Bromobenzene	100	0.7951421	150	0.7881604	200	0.7936905						
Bromochloromethane	100	0.1650367	150	0.1652381	200	0.1630862						
Tert-Amyl Methyl Ether	100	0.7335788	150	0.7374402	200	0.7115715						
Bromodichloromethane	100	0.3857434	150	0.3899113	200	0.3792529						
Bromoform	100	0.636932	150	0.6479078	200	0.6705346						
Bromomethane	100	0.1657026	150	0.1697328	200	0.1693972						
Bromofluorobenzene	30	0.9866748	30	0.9523019	30	0.997774						
n-Butylbenzene	100	1.669768	150	1.663926	200	1.691393						
2-Butanone	200	9.554147E-02	300	9.560914E-02	400	9.352546E-02						
sec-Butylbenzene	100	2.3395	150	2.369041	200	2.3556						
tert-Butylbenzene	100	1.996593	150	1.982968	200	2.015821						
Carbon disulfide	100	0.6703197	150	0.6788079	200	0.6828993						
Carbon tetrachloride	100	0.3901657	150	0.3886424	200	0.3830942						
Chlorobenzene	100	2.072337	150	2.069151	200	2.078503						
Chloroethane	100	0.1478679	150	0.1466351	200	0.1418467						
Chloroform	100	0.4741657	150	0.4745245	200	0.4656946						
2-Chloroethyl vinyl ether	199.5	0.1629167	299.2	0.1649353	399	0.1618786						
Chloromethane	100	0.1887491	150	0.1900848	200	0.1871205						
1-Chlorohexane	100	0.8948172	150	0.8797685	200	0.9023351						
2-Chlorotoluene	100	1.768712	150	1.762135	200	1.751483						
4-Chlorotoluene	100	2.062762	150	2.037231	200	2.02245						
Cyclohexane	100	0.3244228	150	0.326138	200	0.3130759						
Dibromochloromethane	100	0.8715027	150	0.8691926	200	0.8914755						
1,2-Dibromo-3-chloropropane	100	0.1851779	150	0.1926909	200	0.1969557						
1,2-Dibromoethane (EDB)	100	0.7208353	150	0.7152801	200	0.7428478						
Dibromomethane	100	0.1735643	150	0.1730899	200	0.1691305						
1,2-Dichlorobenzene	100	1.417154	150	1.415971	200	1.421504						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2191002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/5/12 8:34 7/5/12 12:23

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	1.426695	150	1.437904	200	1.464247						
1,4-Dichlorobenzene	100	1.461218	150	1.47954	200	1.467388						
Dichlorodifluoromethane	100	0.1853533	150	0.1844271	200	0.1749408						
1,1-Dichloroethane	100	0.421749	150	0.4264903	200	0.4257476						
1,2-Dichloroethane	100	0.340765	150	0.3410749	200	0.3306162						
1,1-Dichloroethene	100	0.238347	150	0.2469868	200	0.2353466						
cis-1,2-Dichloroethene	100	0.2982403	150	0.2997049	200	0.2926592						
trans-1,2-Dichloroethene	100	0.2699993	150	0.2766258	200	0.2707575						
1,2-Dichloroethene (total)	200	0.2841198	300	0.2881654	400	0.2817084						
1,2-Dichloropropane	100	0.242733	150	0.2440598	200	0.2392987						
1,3-Dichloropropane	100	1.054769	150	1.04961	200	1.090751						
2,2-Dichloropropane	100	0.3545971	150	0.3507757	200	0.3407844						
1,1-Dichloropropene	100	0.360582	150	0.3619184	200	0.3486715						
cis-1,3-Dichloropropene	100	0.4291101	150	0.4332755	200	0.4165241						
trans-1,3-Dichloropropene	100	1.060786	150	1.080189	200	1.087389						
Diisopropyl Ether	100	0.7608787	150	0.7600923	200	0.7335371						
Ethylbenzene	100	3.288075	150	3.231462	200	3.316611						
Ethyl tert-Butyl Ether	100	0.7292028	150	0.7263524	200	0.7118948						
Ethyl Methacrylate	100	0.7997711	150	0.8009079	200	0.8326419						
Hexachlorobutadiene	100	0.3177176	150	0.3351962	200	0.3340919						
2-Hexanone	200	0.3464047	300	0.3543635	400	0.35053						
Iodomethane	100	0.3929701	150	0.4012377	200	0.3901842						
Isopropylbenzene	100	2.948007	150	2.948741	200	3.103709						
p-Isopropyltoluene	100	2.133653	150	2.153076	200	2.160777						
Methylene chloride	100	0.2602625	150	0.2652351	200	0.2633626						
Methyl Acetate	100	0.1387788	150	0.1458985	200	0.1450434						
Methylcyclohexane	100	0.3135132	150	0.3141239	200	0.3048694						
Naphthalene	100	2.472269	150	2.586821	200	2.500995						
Methyl Methacrylate	100	0.1902435	150	0.1943808	200	0.1865854						
4-Methyl-2-pentanone	200	0.201194	300	0.1999539	400	0.1986103						
Methyl t-Butyl Ether	100	0.6400418	150	0.6511389	200	0.6427689						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2191002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/5/12 8:34 7/5/12 12:23

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.779212	150	2.796089	200	2.786496						
Styrene	100	2.376681	150	2.378147	200	2.473935						
1,1,2,2-Tetrachloroethane	100	0.6330492	150	0.6550853	200	0.6479384						
1,1,1,2-Tetrachloroethane	100	0.7957872	150	0.7998701	200	0.8156841						
tert-Butyl alcohol	500	1.482158E-02	750	1.610571E-02	1000	1.648194E-02						
Tetrachloroethene	100	0.8533732	150	0.842106	200	0.8859472						
Toluene	100	1.753409	150	1.778821	200	1.781238						
1,2,3-Trichlorobenzene	100	0.831717	150	0.8591491	200	0.8565898						
1,2,4-Trichlorobenzene	100	0.888686	150	0.9152012	200	0.8947492						
1,1,2-Trichloroethane	100	0.4892832	150	0.4934181	200	0.5114914						
1,1,1-Trichloroethane	100	0.4257107	150	0.4185307	200	0.4102269						
Tetrahydrofuran	100	0.027547	150	2.873499E-02	200	2.917935E-02						
Trichloroethene	100	0.2739501	150	0.2785609	200	0.2742214						
Trichlorofluoromethane	100	0.3716633	150	0.3745498	200	0.3580413						
1,2,3-Trichloropropane	100	0.2737372	150	0.2800003	200	0.2945496						
1,3,5-Trimethylbenzene	100	2.079163	150	2.05443	200	2.057093						
1,2,4-Trimethylbenzene	100	2.178102	150	2.181464	200	2.16427						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2328917	150	0.2353991	200	0.2261193						
Vinyl chloride	100	0.2194266	150	0.2141468	200	0.2009531						
m,p-Xylene	200	2.508283	300	2.560028	400	2.629325						
o-Xylene	100	2.676962	150	2.648225	200	2.699799						
Vinyl acetate	199.2	0.4452615	298.9	0.4618263	398.5	0.4485254						
Xylenes (total)	300	2.564509	450	2.589427	600	2.652816						
Dibromofluoromethane	30	0.2731292	30	0.2672099	30	0.2666657						
1,2-Dichloroethane-d4	30	7.050498E-02	30	6.868608E-02	30	6.911064E-02						
Toluene-d8	30	2.427932	30	2.402194	30	2.478445						
tert-Amyl alcohol	500	1.237003E-02	750	0.0137866	1000	1.376705E-02						
tert-Amyl ethyl ether	100	0.5732951	150	0.5847186	200	0.5716873						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2191002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/5/12 8:34 7/5/12 12:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	5.530587E-02	5.398057	3.487571	0.1390397			15	
Acrolein	2.881504E-02	10.0745	3.373667	0.1477669			15	
Acrylonitrile	7.135562E-02	13.75395	4.352667	0.1147383			15	
Benzene	0.9831972	4.739526	7.498778	2.758873E-02			15	
Bromobenzene	0.7522503	7.50436	12.275	1.290811E-02			15	
Bromochloromethane	0.1556926	8.294637	6.577	4.319156E-02			15	
Tert-Amyl Methyl Ether	0.6822161	7.25714	7.693333	2.383496E-02			15	
Bromodichloromethane	0.3595313	8.145608	8.495667	3.220023E-02			15	
Bromoform	0.5837936	11.25159	11.67833	1.045038E-02			SPCC (0.1)	
Bromomethane	0.1996656	25.30158	2.548	9.710967E-02		0.9998164	0.99	
Bromofluorobenzene	0.9537421	2.553675	12.111	2.345197E-02			15	
n-Butylbenzene	1.565417	6.406524	13.71167	8.489831E-03			15	
2-Butanone	9.119319E-02	6.106644	6.027	0.1194969			15	
sec-Butylbenzene	2.198564	6.309366	13.169	1.968385E-02			15	
tert-Butylbenzene	1.870394	7.078556	12.93333	2.432699E-02			15	
Carbon disulfide	0.6341814	9.256693	4.530333	4.583279E-02			15	
Carbon tetrachloride	0.3561029	8.406799	7.467	3.650027E-02			15	
Chlorobenzene	2.004086	4.899357	10.949	1.081874E-02			SPCC (0.3)	
Chloroethane	0.1409348	7.472428	2.681	0.1112945			15	
Chloroform	0.4696998	1.714332	6.551667	0.0460296			CCC (20)	
2-Chloroethyl vinyl ether	0.1484931	10.94308	8.856667	0.0175683			15	
Chloromethane	0.1898294	5.624589	1.955667	0.1350275			SPCC (0.1)	
1-Chlorohexane	0.8971801	5.990324	10.91556	3.264453E-02			15	
2-Chlorotoluene	1.673694	6.372551	12.49733	2.829615E-02			15	
4-Chlorotoluene	1.94579	5.942537	12.561	7.068191E-03			15	
Cyclohexane	0.3043834	5.821107	7.397333	3.324294E-02			15	
Dibromochloromethane	0.8224596	6.739725	10.176	1.888495E-02			15	
1,2-Dibromo-3-chloropropane	0.1724626	13.59875	14.32033	1.546671E-02			15	
1,2-Dibromoethane (EDB)	0.6747029	7.88749	10.39367	3.054429E-02			15	
Dibromomethane	0.1628825	8.38466	8.43	1.727897E-02			15	
1,2-Dichlorobenzene	1.323766	6.511746	13.67333	0.0156863			15	
1,3-Dichlorobenzene	1.370489	5.923277	13.26089	9.704937E-03			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2191002		Instrument:	MS-VOA3	
Matrix:	Water		Calibration Dates:	7/5/12 8:34	7/5/12 12:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.406356	4.042645	13.352	7.502474E-03			15	
Dichlorodifluoromethane	0.1652651	13.43092	1.750556	3.055209E-02			15	
1,1-Dichloroethane	0.4133347	4.432374	5.565667	3.207722E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3263342	7.4082	7.327	4.038871E-02			15	
1,1-Dichloroethene	0.2314039	4.029754	3.970333	5.159574E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2824668	7.068855	6.294333	3.025872E-02			15	
trans-1,2-Dichloroethene	0.2652162	6.261999	5.176333	4.216125E-02			15	
1,2-Dichloroethene (total)	0.2738415	6.548824	6.294333	3.025872E-02			15	
1,2-Dichloropropane	0.228004	7.646053	8.317	5.459083E-02			CCC (20)	
1,3-Dichloropropane	0.9974605	6.98935	9.917555	4.488335E-02			15	
2,2-Dichloropropane	0.3337017	6.657253	6.402778	6.902203E-02			15	
1,1-Dichloropropene	0.3349127	7.607314	7.345111	4.381661E-02			15	
cis-1,3-Dichloropropene	0.3889946	10.5534	9.075	5.230454E-03			15	
trans-1,3-Dichloropropene	1.003469	7.202267	9.55	0.0205681			15	
Diisopropyl Ether	0.7134962	6.1192	5.947333	6.069321E-02			15	
Ethylbenzene	3.094414	6.262943	11.09633	2.319594E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6777122	7.144613	6.422889	2.021754E-02			15	
Ethyl Methacrylate	0.7140804	14.24797	9.738	0.0131431			15	
Hexachlorobutadiene	0.3176563	5.064805	15.688	1.776325E-02			15	
2-Hexanone	0.3224331	8.816012	9.855333	2.939583E-02			15	
Iodomethane	0.308582	31.24251	4.172	2.442068E-02	0.9995813		0.995	
Isopropylbenzene	2.77148	8.864887	12.001	0.0227546			15	
p-Isopropyltoluene	2.015086	7.099308	13.309	1.723665E-02			15	
Methylene chloride	0.2677359	4.995124	4.476	2.511219E-03			15	
Methyl Acetate	0.1346764	5.843418	4.33825	7.208094E-02			15	
Methylcyclohexane	0.2955857	7.002147	8.649	0.0189802			15	
Naphthalene	2.229654	12.57534	15.56	1.343556E-02			15	
Methyl Methacrylate	0.1732998	9.811308	8.454222	2.495149E-02			15	
4-Methyl-2-pentanone	0.1868854	7.524585	8.997334	3.535878E-02			15	
Methyl t-Butyl Ether	0.6021086	7.194313	5.172222	6.119894E-02			15	
n-Propylbenzene	2.608992	6.386131	12.413	1.671901E-02			15	
Styrene	2.199079	11.29941	11.57356	3.082598E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2191002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/5/12 8:34 7/5/12 12:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6233107	3.403575	11.92733	3.235038E-04			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.7475932	6.45183	10.99133	0.0130131			15	
tert-Butyl alcohol	0.0130893	24.94553	4.116143	0.1317209	0.9977957		0.995	
Tetrachloroethene	0.8245587	4.129476	10.292	1.535585E-02			15	
Toluene	1.671702	8.026237	9.549889	1.900884E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.7755599	8.29365	15.84667	5.89957E-03			15	
1,2,4-Trichlorobenzene	0.8396013	6.38838	15.406	1.995551E-02			15	
1,1,2-Trichloroethane	0.4532266	11.29848	9.706667	0.0316396			15	
1,1,1-Trichloroethane	0.3928422	8.294304	7.122	2.025274E-02			15	
Tetrahydrofuran	2.403813E-02	32.1672	6.769286	0.1429289	0.9993522		0.995	
Trichloroethene	0.2602307	7.673089	8.268667	3.522316E-02			15	
Trichlorofluoromethane	0.3632165	4.352297	3.182	9.266958E-02			15	
1,2,3-Trichloropropane	0.2649827	9.569599	12.05133	3.190078E-02			15	
1,3,5-Trimethylbenzene	1.91207	8.185425	12.59111	0.0191309			15	
1,2,4-Trimethylbenzene	2.030273	7.76534	12.96478	3.015613E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2186386	9.105353	4.053334	0.1071518			15	
Vinyl chloride	0.2085933	2.772469	2.110556	0.1332124			CCC (20)	
m,p-Xylene	2.418384	7.305867	11.20989	1.977905E-02			15	
o-Xylene	2.509671	6.858845	11.60333	2.924163E-02			15	
Vinyl acetate	0.4016418	12.59635	5.644	9.927811E-03			15	
Xylenes (total)	2.448813	7.116848	11.60333	2.924163E-02			15	
Dibromofluoromethane	0.2703419	1.563723	6.727	1.389808E-02			15	
1,2-Dichloroethane-d4	6.873084E-02	3.216511	7.232667	2.868635E-02			15	
Toluene-d8	2.407491	1.899137	9.476889	2.013297E-02			15	
tert-Amyl alcohol	1.058825E-02	27.10739	6.929714	6.724782E-02	0.9971591		0.995	
tert-Amyl ethyl ether	0.5279685	9.340352	8.586778	2.642636E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQICV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G18803	Injection Date:	07/05/12
Lab Sample ID:	2G18803-ICV2	Injection Time:	13:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	195.1	5.530587E-02	5.395458E-02		-2.4	20
Benzene	A	100.0	106.1	0.9831972	1.043388		6.1	20
Bromobenzene	A	100.0	108.6	0.7522503	0.8166487		8.6	20
Bromochloromethane	A	100.0	106.9	0.1556926	0.1664776		6.9	20
Bromodichloromethane	A	100.0	108.8	0.3595313	0.3910951		8.8	20
Bromoform	A	100.0	110.5	0.5837936	0.645213	0.1	10.5	20
Bromomethane	Q	100.0	100.7	0.1996656	0.1670248		0.7	20
n-Butylbenzene	A	100.0	104.6	1.565417	1.637719		4.6	20
2-Butanone	A	200.0	203.3	9.119319E-02	9.271082E-02		1.7	20
sec-Butylbenzene	A	100.0	108.3	2.198564	2.380636		8.3	20
tert-Butylbenzene	A	100.0	107.8	1.870394	2.016197		7.8	20
Carbon disulfide	A	100.0	107.2	0.6341814	0.6800403		7.2	20
Carbon tetrachloride	A	100.0	108.8	0.3561029	0.3875289		8.8	20
Chlorobenzene	A	100.0	104.1	2.004086	2.086262	0.3	4.1	20
Chloroethane	A	100.0	104.7	0.1409348	0.1475355		4.7	20
Chloroform	A	100.0	100.8	0.4696998	0.4735104		0.8	20
Chloromethane	A	100.0	98.67	0.1898294	0.1873001	0.1	-1.3	20
2-Chlorotoluene	A	100.0	107.6	1.673694	1.800249		7.6	20
4-Chlorotoluene	A	100.0	107.0	1.94579	2.081379		7.0	20
Dibromochloromethane	A	100.0	107.0	0.8224596	0.8795868		6.9	20
1,2-Dibromo-3-chloropropane	A	100.0	108.0	0.1724626	0.1861945		8.0	20
1,2-Dibromoethane (EDB)	A	100.0	108.8	0.6747029	0.7342373		8.8	20
Dibromomethane	A	100.0	105.1	0.1628825	0.1711716		5.1	20
1,2-Dichlorobenzene	A	100.0	108.2	1.323766	1.432412		8.2	20
1,3-Dichlorobenzene	A	100.0	107.0	1.370489	1.465704		6.9	20
1,4-Dichlorobenzene	A	100.0	104.8	1.406356	1.474617		4.9	20
Dichlorodifluoromethane	A	100.0	112.2	0.1652651	0.1853638		12.2	20
1,1-Dichloroethane	A	100.0	106.0	0.4133347	0.4383619	0.1	6.1	20
1,2-Dichloroethane	A	100.0	103.0	0.3263342	0.3362022		3.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQICV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G18803	Injection Date:	07/05/12
Lab Sample ID:	2G18803-ICV2	Injection Time:	13:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	105.0	0.2314039	0.2429907		5.0	20
cis-1,2-Dichloroethene	A	100.0	106.6	0.2824668	0.3010274		6.6	20
trans-1,2-Dichloroethene	A	100.0	106.0	0.2652162	0.2810325		6.0	20
1,2-Dichloropropane	A	100.0	109.4	0.228004	0.2493732		9.4	20
1,3-Dichloropropane	A	100.0	107.1	0.9974605	1.068559		7.1	20
2,2-Dichloropropane	A	100.0	98.59	0.3337017	0.3289912		-1.4	20
1,1-Dichloropropene	A	100.0	105.9	0.3349127	0.3545728		5.9	20
cis-1,3-Dichloropropene	A	100.0	108.9	0.3889946	0.4234824		8.9	20
trans-1,3-Dichloropropene	A	100.0	106.2	1.003469	1.065335		6.2	20
Ethylbenzene	A	100.0	107.5	3.094414	3.327537		7.5	20
Hexachlorobutadiene	A	100.0	101.3	0.3176563	0.3216946		1.3	20
2-Hexanone	A	200.0	215.5	0.3224331	0.34747		7.8	20
Isopropylbenzene	A	100.0	108.7	2.77148	3.013783		8.7	20
p-Isopropyltoluene	A	100.0	105.9	2.015086	2.134629		5.9	20
Methylene chloride	A	100.0	99.77	0.2677359	0.2671116		-0.2	20
Naphthalene	A	100.0	112.1	2.229654	2.498578		12.1	20
4-Methyl-2-pentanone	A	200.0	214.4	0.1868854	0.2003631		7.2	20
Methyl t-Butyl Ether	A	100.0	107.6	0.6021086	0.647549		7.5	20
n-Propylbenzene	A	100.0	107.2	2.608992	2.7977		7.2	20
Styrene	A	100.0	110.3	2.199079	2.424929		10.3	20
1,1,2,2-Tetrachloroethane	A	100.0	102.4	0.6233107	0.6383058	0.3	2.4	20
1,1,1,2-Tetrachloroethane	A	100.0	107.9	0.7475932	0.8068029		7.9	20
Tetrachloroethene	A	100.0	106.0	0.8245587	0.8739534		6.0	20
Toluene	A	100.0	104.7	1.671702	1.74967		4.7	20
1,2,3-Trichlorobenzene	A	100.0	110.4	0.7755599	0.8558591		10.4	20
1,2,4-Trichlorobenzene	A	100.0	107.9	0.8396013	0.9061214		7.9	20
1,1,2-Trichloroethane	A	100.0	111.2	0.4532266	0.5040977		11.2	20
1,1,1-Trichloroethane	A	100.0	105.6	0.3928422	0.4148253		5.6	20
Trichloroethene	A	100.0	108.1	0.2602307	0.2814114		8.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQICV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G18803	Injection Date:	07/05/12
Lab Sample ID:	2G18803-ICV2	Injection Time:	13:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	101.8	0.3632165	0.3698936		1.8	20
1,2,3-Trichloropropane	A	100.0	105.9	0.2649827	0.2805674		5.9	20
1,3,5-Trimethylbenzene	A	100.0	110.1	1.91207	2.10535		10.1	20
1,2,4-Trimethylbenzene	A	100.0	107.5	2.030273	2.181744		7.5	20
Vinyl chloride	A	100.0	107.4	0.2085933	0.2241019		7.4	20
Xylenes (total)	A	300.0	319.3	2.448813	2.606805		6.5	20
Bromofluorobenzene	A	30.00	30.72	0.9537421	0.9766412		2.4	20
Dibromofluoromethane	A	30.00	29.37	0.2703419	0.2646938		-2.1	20
1,2-Dichloroethane-d4	A	30.00	30.37	6.873084E-02	6.958614E-02		1.2	20
Toluene-d8	A	30.00	30.33	2.407491	2.43436		1.1	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_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV1.D	Calibration Date:	07/05/12 08:34
Sequence:	2G19303	Injection Date:	07/10/12
Lab Sample ID:	2G19303-CCV1	Injection Time:	08:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	211.6	5.530587E-02	5.852731E-02		5.8	20
Benzene	A	100.0	101.6	0.9831972	0.9986172		1.6	20
Bromobenzene	A	100.0	98.52	0.7522503	0.7411068		-1.5	20
Bromochloromethane	A	100.0	104.5	0.1556926	0.1627633		4.5	20
Bromodichloromethane	A	100.0	105.4	0.3595313	0.3789588		5.4	20
Bromoform	A	100.0	104.4	0.5837936	0.6095911	0.1	4.4	20
Bromomethane	Q	100.0	95.87	0.1996656	0.1587853		-4.1	20
n-Butylbenzene	A	100.0	102.4	1.565417	1.602863		2.4	20
2-Butanone	A	200.0	228.5	9.119319E-02	0.1041871		14.2	20
sec-Butylbenzene	A	100.0	101.7	2.198564	2.235923		1.7	20
tert-Butylbenzene	A	100.0	99.71	1.870394	1.865061		-0.3	20
Carbon disulfide	A	100.0	101.2	0.6341814	0.6416182		1.2	20
Carbon tetrachloride	A	100.0	105.5	0.3561029	0.375559		5.5	20
Chlorobenzene	A	100.0	95.62	2.004086	1.916266	0.3	-4.4	20
Chloroethane	A	100.0	103.6	0.1409348	0.1460677		3.6	20
Chloroform	A	100.0	97.10	0.4696998	0.4560827		-2.9	20
Chloromethane	A	100.0	110.9	0.1898294	0.2105827	0.1	10.9	20
2-Chlorotoluene	A	100.0	98.90	1.673694	1.655346		-1.1	20
4-Chlorotoluene	A	100.0	98.67	1.94579	1.919959		-1.3	20
Dibromochloromethane	A	100.0	98.69	0.8224596	0.8117122		-1.3	20
1,2-Dibromo-3-chloropropane	A	100.0	104.6	0.1724626	0.180456		4.6	20
1,2-Dibromoethane (EDB)	A	100.0	100.6	0.6747029	0.6786768		0.6	20
Dibromomethane	A	100.0	103.1	0.1628825	0.1679345		3.1	20
1,2-Dichlorobenzene	A	100.0	99.85	1.323766	1.321728		-0.2	20
1,3-Dichlorobenzene	A	100.0	99.22	1.370489	1.359815		-0.8	20
1,4-Dichlorobenzene	A	100.0	97.73	1.406356	1.374482		-2.3	20
Dichlorodifluoromethane	A	100.0	130.2	0.1652651	0.2151139		30.2	20 *
1,1-Dichloroethane	A	100.0	103.8	0.4133347	0.4288695	0.1	3.8	20
1,2-Dichloroethane	A	100.0	101.8	0.3263342	0.3322773		1.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV1.D	Calibration Date:	07/05/12 08:34
Sequence:	2G19303	Injection Date:	07/10/12
Lab Sample ID:	2G19303-CCV1	Injection Time:	08:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	102.4	0.2314039	0.2369502		2.4	20
cis-1,2-Dichloroethene	A	100.0	102.9	0.2824668	0.2906987		2.9	20
trans-1,2-Dichloroethene	A	100.0	102.6	0.2652162	0.2721008		2.6	20
1,2-Dichloropropane	A	100.0	108.6	0.228004	0.2477342		8.7	20
1,3-Dichloropropane	A	100.0	101.2	0.9974605	1.009903		1.2	20
2,2-Dichloropropane	A	100.0	108.1	0.3337017	0.3607233		8.1	20
1,1-Dichloropropene	A	100.0	105.7	0.3349127	0.3541404		5.7	20
cis-1,3-Dichloropropene	A	100.0	110.3	0.3889946	0.4289036		10.3	20
trans-1,3-Dichloropropene	A	100.0	102.1	1.003469	1.024852		2.1	20
Ethylbenzene	A	100.0	99.92	3.094414	3.092033		-0.08	20
Hexachlorobutadiene	A	100.0	98.95	0.3176563	0.3143218		-1.0	20
2-Hexanone	A	200.0	235.2	0.3224331	0.379145		17.6	20
Isopropylbenzene	A	100.0	102.0	2.77148	2.825897		2.0	20
p-Isopropyltoluene	A	100.0	101.5	2.015086	2.046059		1.5	20
Methylene chloride	A	100.0	96.17	0.2677359	0.2574781		-3.8	20
Naphthalene	A	100.0	105.0	2.229654	2.34154		5.0	20
4-Methyl-2-pentanone	A	200.0	237.1	0.1868854	0.221534		18.5	20
Methyl t-Butyl Ether	A	100.0	104.8	0.6021086	0.6312722		4.8	20
n-Propylbenzene	A	100.0	99.33	2.608992	2.591601		-0.7	20
Styrene	A	100.0	101.8	2.199079	2.239264		1.8	20
1,1,2,2-Tetrachloroethane	A	100.0	95.12	0.6233107	0.5929242	0.3	-4.9	20
1,1,1,2-Tetrachloroethane	A	100.0	99.70	0.7475932	0.7453146		-0.3	20
Tetrachloroethene	A	100.0	100.0	0.8245587	0.824637		0.009	20
Toluene	A	100.0	96.69	1.671702	1.6164		-3.3	20
1,2,3-Trichlorobenzene	A	100.0	103.5	0.7755599	0.803018		3.5	20
1,2,4-Trichlorobenzene	A	100.0	100.9	0.8396013	0.8470451		0.9	20
1,1,2-Trichloroethane	A	100.0	103.2	0.4532266	0.467901		3.2	20
1,1,1-Trichloroethane	A	100.0	105.0	0.3928422	0.412564		5.0	20
Trichloroethene	A	100.0	105.9	0.2602307	0.2756961		5.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV1.D	Calibration Date:	07/05/12 08:34
Sequence:	2G19303	Injection Date:	07/10/12
Lab Sample ID:	2G19303-CCV1	Injection Time:	08:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	100.7	0.3632165	0.3658318		0.7	20
1,2,3-Trichloropropane	A	100.0	101.5	0.2649827	0.2689417		1.5	20
1,3,5-Trimethylbenzene	A	100.0	100.5	1.91207	1.920811		0.5	20
1,2,4-Trimethylbenzene	A	100.0	100.2	2.030273	2.035268		0.2	20
Vinyl chloride	A	100.0	96.98	0.2085933	0.2022902		-3.0	20
Xylenes (total)	A	300.0	293.2	2.448813	2.393565		-2.3	20
Bromofluorobenzene	A	30.00	29.83	0.9537421	0.9484125		-0.6	20
Dibromofluoromethane	A	30.00	29.97	0.2703419	0.2700688		-0.1	20
1,2-Dichloroethane-d4	A	30.00	30.53	6.873084E-02	6.995079E-02		1.8	20
Toluene-d8	A	30.00	29.49	2.407491	2.366951		-1.7	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_055

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

Matrix: Laboratory ID: 2G10005-BLK1 File ID: 0710BLK1.D

Sampled: Prepared: Analyzed: 07/10/12 10:33

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	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	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-BLK1 File ID: 0710BLK1.D

Sampled: Prepared: Analyzed: 07/10/12 10:33

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.58	98.6	75 - 120	
Dibromofluoromethane	30.00	30.54	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.46	105	70 - 120	
Toluene-d8	30.00	30.20	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-BS1 File ID: 0710LCS1.D

Sampled: Prepared: Analyzed: 07/10/12 09:07

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	2.50	5.00	10.0	
71-43-2	Benzene	51.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	49.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	48.6	0.250	0.500	1.00	
75-25-2	Bromoform	51.7	0.250	0.500	1.00	
74-83-9	Bromomethane	49.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	116	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	46.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	47.1	0.250	0.500	1.00	
75-00-3	Chloroethane	51.6	0.500	1.00	2.00	
67-66-3	Chloroform	46.9	0.250	0.500	1.00	
74-87-3	Chloromethane	53.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	48.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	49.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	61.6	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	49.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	47.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	46.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	49.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	53.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	51.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	51.0	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-BS1 File ID: 0710LCS1.D

Sampled: Prepared: Analyzed: 07/10/12 09:07

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	118	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	46.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.8	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	118	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	51.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.0	0.250	0.500	1.00	
100-42-5	Styrene	51.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.2	0.250	0.500	1.00	
108-88-3	Toluene	50.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.6	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	51.1	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	53.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	50.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.0	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	30.88	103	75 - 120	
Dibromofluoromethane	30.00	29.69	99.0	85 - 115	
1,2-Dichloroethane-d4	30.00	31.23	104	70 - 120	
Toluene-d8	30.00	29.56	98.5	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-MS1 File ID: 0701907M.D

Sampled: Prepared: Analyzed: 07/10/12 17:43

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	
71-43-2	Benzene	51.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	46.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	50.7	0.250	0.500	1.00	
75-25-2	Bromoform	50.8	0.250	0.500	1.00	
74-83-9	Bromomethane	49.4	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.5	0.250	0.500	1.00	
78-93-3	2-Butanone	120	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	47.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	47.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	47.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	47.1	0.250	0.500	1.00	
75-00-3	Chloroethane	55.5	0.500	1.00	2.00	
67-66-3	Chloroform	48.7	0.250	0.500	1.00	
74-87-3	Chloromethane	54.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	47.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	46.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	48.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	47.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	45.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	47.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	61.2	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	52.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	52.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	46.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	50.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	42.4	0.250	0.500	2.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-MS1 File ID: 0701907M.D

Sampled: Prepared: Analyzed: 07/10/12 17:43

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	125	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	45.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	45.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	48.3	0.500	1.00	2.00	
91-20-3	Naphthalene	50.0	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	127	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	52.9	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	46.6	0.250	0.500	1.00	
100-42-5	Styrene	48.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	45.7	0.250	0.500	1.00	
108-88-3	Toluene	48.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	46.9	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	45.4	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	54.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.5	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	53.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	49.4	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	57.3	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	144	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.02	100	75 - 120	
Dibromofluoromethane	30.00	30.76	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.48	105	70 - 120	
Toluene-d8	30.00	28.35	94.5	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-MSD1 File ID: 0701907S.D

Sampled: Prepared: Analyzed: 07/10/12 18:11

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	107	2.50	5.00	10.0	
71-43-2	Benzene	47.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	46.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	49.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	49.0	0.250	0.500	1.00	
75-25-2	Bromoform	50.1	0.250	0.500	1.00	
74-83-9	Bromomethane	47.4	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	46.5	0.250	0.500	1.00	
78-93-3	2-Butanone	117	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	46.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	44.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	48.8	0.250	0.500	1.00	
108-90-7	Chlorobenzene	44.1	0.250	0.500	1.00	
75-00-3	Chloroethane	51.4	0.500	1.00	2.00	
67-66-3	Chloroform	46.2	0.250	0.500	1.00	
74-87-3	Chloromethane	52.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	46.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	45.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	46.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	45.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	45.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	56.8	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	47.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	49.2	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	44.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	49.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	46.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	47.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	48.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	46.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	42.2	0.250	0.500	2.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G10005-MSD1 File ID: 0701907S.D

Sampled: Prepared: Analyzed: 07/10/12 18:11

Solids: Preparation: 5030B Dilution:

Batch: 2G10005 Sequence: 2G19303 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	119	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	43.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	43.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	46.1	0.500	1.00	2.00	
91-20-3	Naphthalene	49.7	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	121	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	50.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	45.4	0.250	0.500	1.00	
100-42-5	Styrene	45.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	46.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	43.5	0.250	0.500	1.00	
108-88-3	Toluene	45.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	46.2	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	45.8	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	51.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	48.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	47.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	48.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.7	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	136	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	30.04	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.90	103	70 - 120	
Toluene-d8	30.00	29.46	98.2	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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
GW0625	07/05/12 12:10	07/06/12 08:20	07/10/12 00:00	N/A	14.00	07/10/12 13:25	5.01	14.00	
GW0626	07/05/12 11:20	07/06/12 08:20	07/10/12 00:00	N/A	14.00	07/10/12 13:54	5.07	14.00	
GW0627	07/05/12 11:44	07/06/12 08:20	07/10/12 00:00	N/A	14.00	07/10/12 14:23	5.07	14.00	
GW0628	07/05/12 09:22	07/06/12 08:20	07/10/12 00:00	N/A	14.00	07/10/12 12:57	5.11	14.00	
GW8210-TB	07/05/12 08:00	07/06/12 08:20	07/10/12 00:00	N/A	14.00	07/10/12 11:31	5.10	14.00	
GW0623	07/05/12 09:23	07/06/12 08:20	07/10/12 00:00	N/A	14.00	07/10/12 14:51	5.19	14.00	
GW0624	07/06/12 08:53	07/07/12 08:05	07/10/12 00:00	N/A	14.00	07/10/12 15:48	4.25	14.00	
GW8211-TB	07/06/12 08:00	07/07/12 08:05	07/10/12 00:00	N/A	14.00	07/10/12 12:28	4.19	14.00	

Data for SW8270D Forms

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	0701901.D
Sampled:	07/05/12 12:10	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 16:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	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	47.2	94.3	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	X, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	0701901.D
Sampled:	07/05/12 12:10	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 16:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	38.81	82.3	50 - 110	
2-Fluorophenol	94.34	35.96	38.1	20 - 110	
Nitrobenzene-d5	47.17	38.65	81.9	40 - 110	
Phenol-d6	94.34	19.81	21.0	0 - 110	
Terphenyl-d14	47.17	48.05	102	50 - 135	
2,4,6-Tribromophenol	94.34	86.12	91.3	40 - 125	

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	0701903.D
Sampled:	07/05/12 11:20	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 17:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	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	48.1	96.2	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	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	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	X, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	0701903.D
Sampled:	07/05/12 11:20	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 17:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	42.70	88.8	50 - 110	
2-Fluorophenol	96.15	36.03	37.5	20 - 110	
Nitrobenzene-d5	48.08	38.69	80.5	40 - 110	
Phenol-d6	96.15	19.51	20.3	0 - 110	
Terphenyl-d14	48.08	47.70	99.2	50 - 135	
2,4,6-Tribromophenol	96.15	83.51	86.9	40 - 125	

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	0701905.D
Sampled:	07/05/12 11:44	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 17:40
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	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	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	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	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	X, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	0701905.D
Sampled:	07/05/12 11:44	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 17:40
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	39.50	80.6	50 - 110	
2-Fluorophenol	98.04	37.54	38.3	20 - 110	
Nitrobenzene-d5	49.02	39.98	81.6	40 - 110	
Phenol-d6	98.04	21.14	21.6	0 - 110	
Terphenyl-d14	49.02	46.99	95.9	50 - 135	
2,4,6-Tribromophenol	98.04	87.20	88.9	40 - 125	

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	0701907.D
Sampled:	07/05/12 09:22	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 18:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	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	47.2	94.3	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	N, Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	X, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	N, U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	N, 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

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	0701907.D
Sampled:	07/05/12 09:22	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 18:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	N, U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	36.42	77.2	50 - 110	
2-Fluorophenol	94.34	31.58	33.5	20 - 110	
Nitrobenzene-d5	47.17	35.83	76.0	40 - 110	
Phenol-d6	94.34	17.22	18.3	0 - 110	
Terphenyl-d14	47.17	41.21	87.4	50 - 135	
2,4,6-Tribromophenol	94.34	72.45	76.8	40 - 125	

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	0701910.D
Sampled:	07/05/12 09:23	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	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	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	0701910.D
Sampled:	07/05/12 09:23	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.20	88.4	50 - 110	
2-Fluorophenol	100.0	39.85	39.8	20 - 110	
Nitrobenzene-d5	50.00	44.96	89.9	40 - 110	
Phenol-d6	100.0	22.28	22.3	0 - 110	
Terphenyl-d14	50.00	49.51	99.0	50 - 135	
2,4,6-Tribromophenol	100.0	91.75	91.8	40 - 125	

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	0702601.D
Sampled:	07/06/12 08:53	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 20:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	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	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	0702601.D
Sampled:	07/06/12 08:53	Prepared:	07/12/12 13:16	Analyzed:	07/19/12 20:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.74	91.5	50 - 110	
2-Fluorophenol	100.0	37.97	38.0	20 - 110	
Nitrobenzene-d5	50.00	42.84	85.7	40 - 110	
Phenol-d6	100.0	21.02	21.0	0 - 110	
Terphenyl-d14	50.00	49.93	99.9	50 - 135	
2,4,6-Tribromophenol	100.0	93.08	93.1	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20205-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/19/12 14:50		
2-Fluorobiphenyl	50.00	103	80 - 120	8.278	8.278	0.0000	+/-0.500	
2-Fluorophenol	100.0	94.0	80 - 120	3.629	3.629	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.8	80 - 120	5.935	5.935	0.0000	+/-0.500	
Phenol-d6	100.0	96.1	80 - 120	4.772	4.772	0.0000	+/-0.500	
Terphenyl-d14	50.00	101	80 - 120	12.85	12.85	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	99.7	80 - 120	10.087	10.087	0.0000	+/-0.500	
Blank (2G11005-BLK1) ug/L				Lab File ID: G11005B1.D		Analyzed: 07/19/12 15:47		
2-Fluorobiphenyl	50.00	87.9	50 - 110	8.277	8.278	-0.0010	+/-0.500	
2-Fluorophenol	100.0	37.6	20 - 110	3.63	3.629	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	81.2	40 - 110	5.936	5.935	0.0010	+/-0.500	
Phenol-d6	100.0	21.5	0 - 110	4.773	4.772	0.0010	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	12.847	12.85	-0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	91.8	40 - 125	10.077	10.087	-0.0100	+/-0.500	
LCS (2G11005-BS1) ug/L				Lab File ID: G11005L1.D		Analyzed: 07/19/12 16:15		
2-Fluorobiphenyl	50.00	91.4	50 - 110	8.284	8.278	0.0060	+/-0.500	
2-Fluorophenol	100.0	46.5	20 - 110	3.631	3.629	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	86.3	40 - 110	5.941	5.935	0.0060	+/-0.500	
Phenol-d6	100.0	25.8	0 - 110	4.773	4.772	0.0010	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	12.848	12.85	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	97.7	40 - 125	10.088	10.087	0.0010	+/-0.500	
GW0625 (1207019-01) ug/L				Lab File ID: 0701901.D		Analyzed: 07/19/12 16:43		
2-Fluorobiphenyl	47.17	82.3	50 - 110	8.28	8.278	0.0020	+/-0.500	
2-Fluorophenol	94.34	38.1	20 - 110	3.629	3.629	0.0000	+/-0.500	
Nitrobenzene-d5	47.17	81.9	40 - 110	5.939	5.935	0.0040	+/-0.500	
Phenol-d6	94.34	21.0	0 - 110	4.775	4.772	0.0030	+/-0.500	
Terphenyl-d14	47.17	102	50 - 135	12.847	12.85	-0.0030	+/-0.500	
2,4,6-Tribromophenol	94.34	91.3	40 - 125	10.081	10.087	-0.0060	+/-0.500	
GW0626 (1207019-03) ug/L				Lab File ID: 0701903.D		Analyzed: 07/19/12 17:11		
2-Fluorobiphenyl	48.08	88.8	50 - 110	8.277	8.278	-0.0010	+/-0.500	
2-Fluorophenol	96.15	37.5	20 - 110	3.628	3.629	-0.0010	+/-0.500	
Nitrobenzene-d5	48.08	80.5	40 - 110	5.938	5.935	0.0030	+/-0.500	
Phenol-d6	96.15	20.3	0 - 110	4.774	4.772	0.0020	+/-0.500	
Terphenyl-d14	48.08	99.2	50 - 135	12.846	12.85	-0.0040	+/-0.500	
2,4,6-Tribromophenol	96.15	86.9	40 - 125	10.08	10.087	-0.0070	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0627 (1207019-05) ug/L				Lab File ID: 0701905.D		Analyzed: 07/19/12 17:40		
2-Fluorobiphenyl	49.02	80.6	50 - 110	8.277	8.278	-0.0010	+/-0.500	
2-Fluorophenol	98.04	38.3	20 - 110	3.628	3.629	-0.0010	+/-0.500	
Nitrobenzene-d5	49.02	81.6	40 - 110	5.938	5.935	0.0030	+/-0.500	
Phenol-d6	98.04	21.6	0 - 110	4.773	4.772	0.0010	+/-0.500	
Terphenyl-d14	49.02	95.9	50 - 135	12.845	12.85	-0.0050	+/-0.500	
2,4,6-Tribromophenol	98.04	88.9	40 - 125	10.077	10.087	-0.0100	+/-0.500	
GW0628 (1207019-07) ug/L				Lab File ID: 0701907.D		Analyzed: 07/19/12 18:08		
2-Fluorobiphenyl	47.17	77.2	50 - 110	8.276	8.278	-0.0020	+/-0.500	
2-Fluorophenol	94.34	33.5	20 - 110	3.627	3.629	-0.0020	+/-0.500	
Nitrobenzene-d5	47.17	76.0	40 - 110	5.939	5.935	0.0040	+/-0.500	
Phenol-d6	94.34	18.3	0 - 110	4.774	4.772	0.0020	+/-0.500	
Terphenyl-d14	47.17	87.4	50 - 135	12.844	12.85	-0.0060	+/-0.500	
2,4,6-Tribromophenol	94.34	76.8	40 - 125	10.076	10.087	-0.0110	+/-0.500	
Matrix Spike (2G11005-MS1) ug/L				Lab File ID: 0701907M.D		Analyzed: 07/19/12 18:36		
2-Fluorobiphenyl	50.00	86.4	50 - 110	8.282	8.278	0.0040	+/-0.500	
2-Fluorophenol	100.0	38.8	20 - 110	3.628	3.629	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	77.8	40 - 110	5.94	5.935	0.0050	+/-0.500	
Phenol-d6	100.0	21.1	0 - 110	4.775	4.772	0.0030	+/-0.500	
Terphenyl-d14	50.00	90.3	50 - 135	12.845	12.85	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	88.3	40 - 125	10.08	10.087	-0.0070	+/-0.500	
Matrix Spike Dup (2G11005-MSD1) ug/L				Lab File ID: 0701907S.D		Analyzed: 07/19/12 19:04		
2-Fluorobiphenyl	50.00	89.1	50 - 110	8.282	8.278	0.0040	+/-0.500	
2-Fluorophenol	100.0	39.4	20 - 110	3.627	3.629	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	84.8	40 - 110	5.938	5.935	0.0030	+/-0.500	
Phenol-d6	100.0	22.7	0 - 110	4.772	4.772	0.0000	+/-0.500	
Terphenyl-d14	50.00	99.6	50 - 135	12.851	12.85	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	90.8	40 - 125	10.08	10.087	-0.0070	+/-0.500	
GW0623 (1207019-10) ug/L				Lab File ID: 0701910.D		Analyzed: 07/19/12 19:32		
2-Fluorobiphenyl	50.00	88.4	50 - 110	8.282	8.278	0.0040	+/-0.500	
2-Fluorophenol	100.0	39.8	20 - 110	3.628	3.629	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	89.9	40 - 110	5.936	5.935	0.0010	+/-0.500	
Phenol-d6	100.0	22.3	0 - 110	4.772	4.772	0.0000	+/-0.500	
Terphenyl-d14	50.00	99.0	50 - 135	12.852	12.85	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	91.8	40 - 125	10.083	10.087	-0.0040	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0624 (1207026-01) ug/L				Lab File ID: 0702601.D		Analyzed: 07/19/12 20:00		
2-Fluorobiphenyl	50.00	91.5	50 - 110	8.276	8.278	-0.0020	+/-0.500	
2-Fluorophenol	100.0	38.0	20 - 110	3.629	3.629	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	85.7	40 - 110	5.938	5.935	0.0030	+/-0.500	
Phenol-d6	100.0	21.0	0 - 110	4.774	4.772	0.0020	+/-0.500	
Terphenyl-d14	50.00	99.9	50 - 135	12.851	12.85	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	93.1	40 - 125	10.076	10.087	-0.0110	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G11005	Laboratory ID:	2G11005-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	49.00	38.50	78.6	45 - 110
Acenaphthylene	49.00	43.26	88.3	50 - 105
Acetophenone	50.00	43.76	87.5	50 - 110
Anthracene	49.00	46.91	95.7	55 - 110
Atrazine	50.00	45.89	91.8	70 - 115
Benzaldehyde	50.00	40.90	81.8	10 - 180
Benzidine	50.00	100 U	0	0 - 200
Benzo(a)anthracene	49.00	45.37	92.6	55 - 110
Benzo(a)pyrene	49.00	44.47	90.7	55 - 110
Benzo(b)fluoranthene	49.00	44.69	91.2	45 - 120
Benzo(g,h,i)perylene	49.00	46.20	94.3	40 - 125
Benzoic acid	100.0	100 U	0	0 - 125
Benzo(k)fluoranthene	49.00	49.21	100	45 - 125
1,1-Biphenyl	50.00	46.30	92.6	50 - 110
4-Bromophenyl-phenylether	49.00	43.96	89.7	50 - 115
Butylbenzylphthalate	49.00	54.82	112	45 - 115
Caprolactam	**50.00**	**8.335**	**16.7**	**20 - 110**
Carbazole	50.00	50.22	100	50 - 115
4-Chloro-3-methylphenol	100.0	88.91	88.9	45 - 110
4-Chloroaniline	50.00	44.05	88.1	15 - 110
Bis(2-chloroethoxy)methane	49.00	41.98	85.7	45 - 105
Bis(2-chloroethyl)ether	49.00	37.09	75.7	35 - 110
2,2'-Oxybis-1-chloropropane	49.00	47.20	96.3	25 - 130
2-Chloronaphthalene	49.00	35.80	73.1	50 - 105
2-Chlorophenol	100.0	82.29	82.3	35 - 105
4-Chlorophenyl phenyl ether	49.00	39.61	80.8	50 - 110
Chrysene	49.00	46.64	95.2	55 - 110
Dibenz(a,h)anthracene	49.00	46.44	94.8	40 - 125
Dibenzofuran	49.00	40.10	81.8	55 - 105
Di-n-butylphthalate	49.00	50.32	103	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G11005	Laboratory ID:	2G11005-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	47.03	94.1	20 - 110
2,4-Dichlorophenol	100.0	90.71	90.7	40 - 110
Diethylphthalate	49.00	44.04	89.9	40 - 120
2,4-Dimethylphenol	100.0	87.36	87.4	30 - 110
Dimethyl phthalate	49.00	44.17	90.1	25 - 125
4,6-Dinitro-2-methylphenol	100.0	89.12	89.1	40 - 130
2,4-Dinitrophenol	100.0	34.82	34.8	15 - 140
2,4-Dinitrotoluene	49.00	42.37	86.5	50 - 120
2,6-Dinitrotoluene	49.00	39.41	80.4	50 - 115
Di-n-octylphthalate	49.00	51.36	105	35 - 135
1,2-Diphenylhydrazine	50.00	51.49	103	55 - 115
Bis(2-ethylhexyl)phthalate	49.00	53.06	108	40 - 125
Fluoranthene	49.00	44.30	90.4	55 - 115
Fluorene	49.00	43.10	88.0	50 - 110
Hexachlorobenzene	49.00	39.53	80.7	50 - 110
Hexachlorobutadiene	49.00	27.69	56.5	25 - 105
Hexachlorocyclopentadiene	49.00	20.61	42.1	10 - 110
Hexachloroethane	49.00	26.14	53.3	30 - 95
Indeno(1,2,3-cd)pyrene	49.00	45.73	93.3	45 - 125
Isophorone	49.00	39.31	80.2	50 - 110
1-Methylnaphthalene	50.00	39.01	78.0	30 - 115
2-Methylnaphthalene	49.00	33.53	68.4	45 - 105
2-Methylphenol	100.0	67.71	67.7	40 - 110
3-Methylphenol/4-Methylphenol	100.0	61.45	61.4	30 - 110
Naphthalene	49.00	37.08	75.7	40 - 100
4-Nitroaniline	50.00	48.72	97.4	35 - 120
3-Nitroaniline	50.00	45.96	91.9	20 - 125
2-Nitroaniline	50.00	54.41	109	50 - 115
Nitrobenzene	49.00	38.08	77.7	30 - 110
4-Nitrophenol	100.0	31.46	31.5	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G11005	Laboratory ID:	2G11005-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	94.06	94.1	40 - 115
N-Nitrosodiphenylamine	49.00	39.16	79.9	50 - 110
N-Nitroso-di-n-propylamine	49.00	44.13	90.1	35 - 130
Pentachlorophenol	100.0	90.54	90.5	40 - 115
Phenanthrene	49.00	46.70	95.3	50 - 115
Phenol	100.0	26.02	26.0	0 - 115
Pyrene	49.00	49.44	101	50 - 130
2,4,6-Trichlorophenol	100.0	90.11	90.1	50 - 115
2,4,5-Trichlorophenol	100.0	95.85	95.9	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	49.00	ND	36.08	73.6		45 - 110
Acenaphthylene	49.00	ND	39.56	80.7		50 - 105
Acetophenone	50.00	ND	41.06	82.1		50 - 110
Anthracene	49.00	ND	39.68	81.0		55 - 110
Atrazine	50.00	ND	39.65	79.3		70 - 115
Benzaldehyde	50.00	ND	36.59	73.2		10 - 180
Benzidine	50.00	ND	100 U	0		0 - 200
Benzo(a)anthracene	49.00	ND	41.53	84.8		55 - 110
Benzo(a)pyrene	49.00	ND	41.13	83.9		55 - 110
Benzo(b)fluoranthene	49.00	ND	45.10	92.0		45 - 120
Benzo(g,h,i)perylene	49.00	ND	42.03	85.8		40 - 125
Benzoic acid	100.0	ND	100 U	0		0 - 125
Benzo(k)fluoranthene	49.00	ND	40.99	83.7		45 - 125
1,1-Biphenyl	50.00	ND	46.13	92.3		50 - 110
4-Bromophenyl-phenylether	49.00	ND	38.45	78.5		50 - 115
Butylbenzylphthalate	49.00	ND	50.85	104		45 - 115
Caprolactam	50.00	ND	6.198	12.4	*	20 - 110
Carbazole	50.00	ND	46.92	93.8		50 - 115
4-Chloro-3-methylphenol	100.0	ND	79.53	79.5		45 - 110
4-Chloroaniline	50.00	ND	38.14	76.3		15 - 110
Bis(2-chloroethoxy)methane	49.00	ND	36.94	75.4		45 - 105
Bis(2-chloroethyl)ether	49.00	ND	34.10	69.6		35 - 110
2,2'-Oxybis-1-chloropropane	49.00	ND	44.20	90.2		25 - 130
2-Chloronaphthalene	49.00	ND	34.13	69.7		50 - 105
2-Chlorophenol	100.0	ND	70.97	71.0		35 - 105
4-Chlorophenyl phenyl ether	49.00	ND	37.28	76.1		50 - 110
Chrysene	49.00	ND	41.84	85.4		55 - 110
Dibenz(a,h)anthracene	49.00	ND	41.10	83.9		40 - 125
Dibenzofuran	49.00	ND	36.49	74.5		55 - 105
Di-n-butylphthalate	49.00	ND	44.47	90.7		55 - 115
3,3'-Dichlorobenzidine	50.00	ND	42.20	84.4		20 - 110
2,4-Dichlorophenol	100.0	ND	78.28	78.3		40 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	49.00	ND	42.12	86.0		40 - 120
2,4-Dimethylphenol	100.0	ND	78.43	78.4		30 - 110
Dimethyl phthalate	49.00	ND	41.55	84.8		25 - 125
4,6-Dinitro-2-methylphenol	100.0	ND	75.81	75.8		40 - 130
2,4-Dinitrophenol	100.0	ND	33.65	33.7		15 - 140
2,4-Dinitrotoluene	49.00	ND	39.60	80.8		50 - 120
2,6-Dinitrotoluene	49.00	ND	37.38	76.3		50 - 115
Di-n-octylphthalate	49.00	ND	47.08	96.1		35 - 135
1,2-Diphenylhydrazine	50.00	ND	42.25	84.5		55 - 115
Bis(2-ethylhexyl)phthalate	49.00	ND	48.13	98.2		40 - 125
Fluoranthene	49.00	ND	38.96	79.5		55 - 115
Fluorene	49.00	ND	40.01	81.7		50 - 110
Hexachlorobenzene	49.00	ND	35.27	72.0		50 - 110
Hexachlorobutadiene	49.00	ND	23.38	47.7		25 - 105
Hexachlorocyclopentadiene	49.00	ND	19.14	39.1		10 - 110
Hexachloroethane	49.00	ND	23.61	48.2		30 - 95
Indeno(1,2,3-cd)pyrene	49.00	ND	42.67	87.1		45 - 125
Isophorone	49.00	ND	34.22	69.8		50 - 110
1-Methylnaphthalene	50.00	ND	34.97	69.9		30 - 115
2-Methylnaphthalene	49.00	ND	29.40	60.0		45 - 105
2-Methylphenol	100.0	ND	59.07	59.1		40 - 110
3-Methylphenol/4-Methylphenol	100.0	ND	53.33	53.3		30 - 110
Naphthalene	49.00	ND	31.63	64.5		40 - 100
4-Nitroaniline	50.00	ND	46.62	93.2		35 - 120
3-Nitroaniline	50.00	ND	43.08	86.2		20 - 125
2-Nitroaniline	50.00	ND	52.96	106		50 - 115
Nitrobenzene	49.00	ND	32.66	66.7		30 - 110
4-Nitrophenol	100.0	ND	25.24	25.2		0 - 125
2-Nitrophenol	100.0	ND	82.71	82.7		40 - 115
N-Nitrosodiphenylamine	49.00	ND	32.32	66.0		50 - 110
N-Nitroso-di-n-propylamine	49.00	ND	39.55	80.7		35 - 130
Pentachlorophenol	100.0	ND	80.15	80.1		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	49.00	ND	40.34	82.3		50 - 115
Phenol	100.0	ND	22.22	22.2		0 - 115
Pyrene	49.00	ND	44.80	91.4		50 - 130
2,4,6-Trichlorophenol	100.0	ND	86.21	86.2		50 - 115
2,4,5-Trichlorophenol	100.0	ND	96.31	96.3		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	49.00	36.60	74.7	1.44		30	45 - 110
Acenaphthylene	49.00	40.80	83.3	3.10		30	50 - 105
Acetophenone	50.00	42.79	85.6	4.13		30	50 - 110
Anthracene	49.00	41.22	84.1	3.80		30	55 - 110
Atrazine	50.00	42.77	85.5	7.59		30	70 - 115
Benzaldehyde	50.00	39.45	78.9	7.53		30	10 - 180
Benzidine	50.00	100 U	0			30	0 - 200
Benzo(a)anthracene	49.00	42.97	87.7	3.41		30	55 - 110
Benzo(a)pyrene	49.00	41.59	84.9	1.11		30	55 - 110
Benzo(b)fluoranthene	49.00	41.93	85.6	7.30		30	45 - 120
Benzo(g,h,i)perylene	49.00	43.12	88.0	2.57		30	40 - 125
Benzoic acid	100.0	100 U	0			30	0 - 125
Benzo(k)fluoranthene	49.00	46.42	94.7	12.4		30	45 - 125
1,1-Biphenyl	50.00	45.44	90.9	1.50		30	50 - 110
4-Bromophenyl-phenylether	49.00	39.98	81.6	3.90		30	50 - 115
Butylbenzylphthalate	49.00	52.18	106	2.58		30	45 - 115
Caprolactam	50.00	7.132	14.3	14.0	*	30	20 - 110
Carbazole	50.00	49.41	98.8	5.18		30	50 - 115
4-Chloro-3-methylphenol	100.0	80.62	80.6	1.36		30	45 - 110
4-Chloroaniline	50.00	42.05	84.1	9.77		30	15 - 110
Bis(2-chloroethoxy)methane	49.00	39.78	81.2	7.40		30	45 - 105
Bis(2-chloroethyl)ether	49.00	36.36	74.2	6.42		30	35 - 110
2,2'-Oxybis-1-chloropropane	49.00	45.14	92.1	2.10		30	25 - 130
2-Chloronaphthalene	49.00	33.35	68.1	2.30		30	50 - 105
2-Chlorophenol	100.0	74.35	74.3	4.64		30	35 - 105
4-Chlorophenyl phenyl ether	49.00	38.10	77.8	2.19		30	50 - 110
Chrysene	49.00	43.20	88.2	3.20		30	55 - 110
Dibenz(a,h)anthracene	49.00	42.33	86.4	2.94		30	40 - 125
Dibenzofuran	49.00	36.53	74.6	0.114		30	55 - 105
Di-n-butylphthalate	49.00	46.48	94.9	4.43		30	55 - 115
3,3'-Dichlorobenzidine	50.00	44.59	89.2	5.51		30	20 - 110
2,4-Dichlorophenol	100.0	83.07	83.1	5.93		30	40 - 110
Diethylphthalate	49.00	42.48	86.7	0.850		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	100.0	83.07	83.1	5.75		30	30 - 110
Dimethyl phthalate	49.00	42.11	85.9	1.33		30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	54.42	54.4	32.8	*	30	40 - 130
2,4-Dinitrophenol	100.0	15.88	15.9	71.7	*	30	15 - 140
2,4-Dinitrotoluene	49.00	40.26	82.2	1.67		30	50 - 120
2,6-Dinitrotoluene	49.00	39.49	80.6	5.50		30	50 - 115
Di-n-octylphthalate	49.00	47.79	97.5	1.50		30	35 - 135
1,2-Diphenylhydrazine	50.00	47.24	94.5	11.2		30	55 - 115
Bis(2-ethylhexyl)phthalate	49.00	49.89	102	3.58		30	40 - 125
Fluoranthene	49.00	42.69	87.1	9.14		30	55 - 115
Fluorene	49.00	42.25	86.2	5.45		30	50 - 110
Hexachlorobenzene	49.00	37.44	76.4	5.96		30	50 - 110
Hexachlorobutadiene	49.00	23.91	48.8	2.26		30	25 - 105
Hexachlorocyclopentadiene	49.00	20.09	41.0	4.86		30	10 - 110
Hexachloroethane	49.00	25.00	51.0	5.70		30	30 - 95
Indeno(1,2,3-cd)pyrene	49.00	42.48	86.7	0.449		30	45 - 125
Isophorone	49.00	35.70	72.9	4.24		30	50 - 110
1-Methylnaphthalene	50.00	35.46	70.9	1.39		30	30 - 115
2-Methylnaphthalene	49.00	31.69	64.7	7.49		30	45 - 105
2-Methylphenol	100.0	61.34	61.3	3.77		30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	56.14	56.1	5.14		30	30 - 110
Naphthalene	49.00	33.60	68.6	6.04		30	40 - 100
4-Nitroaniline	50.00	48.26	96.5	3.46		30	35 - 120
3-Nitroaniline	50.00	44.21	88.4	2.59		30	20 - 125
2-Nitroaniline	50.00	52.15	104	1.54		30	50 - 115
Nitrobenzene	49.00	35.02	71.5	6.96		30	30 - 110
4-Nitrophenol	100.0	17.29	17.3	37.4	*	30	0 - 125
2-Nitrophenol	100.0	86.72	86.7	4.73		30	40 - 115
N-Nitrosodiphenylamine	49.00	34.96	71.3	7.84		30	50 - 110
N-Nitroso-di-n-propylamine	49.00	43.27	88.3	8.99		30	35 - 130
Pentachlorophenol	100.0	67.91	67.9	16.5		30	40 - 115
Phenanthrene	49.00	41.97	85.6	3.95		30	50 - 115
Phenol	100.0	23.31	23.3	4.78		30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	49.00	46.13	94.1	2.92		30	50 - 130
2,4,6-Trichlorophenol	100.0	81.98	82.0	5.03		30	50 - 115
2,4,5-Trichlorophenol	100.0	90.88	90.9	5.80		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G11005 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/12/12 13:16	1,060.00	1.00
GW0626	1207019-03	07/12/12 13:16	1,040.00	1.00
GW0627	1207019-05	07/12/12 13:16	1,020.00	1.00
GW0628	1207019-07	07/12/12 13:16	1,060.00	1.00
GW0623	1207019-10	07/12/12 13:16	1,000.00	1.00
GW0624	1207026-01	07/12/12 13:16	1,000.00	1.00
Blank	2G11005-BLK1	07/12/12 13:16	1,000.00	1.00
LCS	2G11005-BS1	07/12/12 13:16	1,000.00	1.00
GW0628	2G11005-MS1	07/12/12 13:16	1,000.00	1.00
GW0628	2G11005-MSD1	07/12/12 13:16	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/31/12
Instrument ID:	MS-BNA1	Injection Time:	17:57
Sequence:	2F15401	Lab Sample ID:	2F15401-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	45	PASS
68	Less than 2% of 69	1.69	PASS
69	Less than 200% of 198	63.1	PASS
70	Less than 2% of 69	0.87	PASS
127	40 - 60% of 198	51	PASS
197	Less than 1% of 198	0.546	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.32	PASS
275	10 - 30% of 198	18.3	PASS
365	1 - 200% of 198	1.92	PASS
441	0.001 - 100% of 443	77.9	PASS
442	40 - 200% of 198	70.6	PASS
443	17 - 23% of 442	18.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	06/01/12
Instrument ID:	MS-BNA1	Injection Time:	16:21
Sequence:	2F15401	Lab Sample ID:	2F15401-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.8	PASS
68	Less than 2% of 69	1.57	PASS
69	Less than 200% of 198	61.3	PASS
70	Less than 2% of 69	1.29	PASS
127	40 - 60% of 198	50.3	PASS
197	Less than 1% of 198	0.0816	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	19	PASS
365	1 - 200% of 198	2	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	76	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/04/12
Instrument ID:	MS-BNA1	Injection Time:	13:05
Sequence:	2F15401	Lab Sample ID:	2F15401-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	42.4	PASS
68	Less than 2% of 69	0.682	PASS
69	Less than 200% of 198	62.2	PASS
70	Less than 2% of 69	0.95	PASS
127	40 - 60% of 198	52.3	PASS
197	Less than 1% of 198	0.0494	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.36	PASS
275	10 - 30% of 198	18.7	PASS
365	1 - 200% of 198	2.06	PASS
441	0.001 - 100% of 443	73.7	PASS
442	40 - 200% of 198	74.7	PASS
443	17 - 23% of 442	18.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/19/12
Instrument ID:	MS-BNA1	Injection Time:	14:26
Sequence:	2G20205	Lab Sample ID:	2G20205-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49.4	PASS
68	Less than 2% of 69	1.73	PASS
69	Less than 200% of 198	66.9	PASS
70	Less than 2% of 69	0.913	PASS
127	40 - 60% of 198	52.1	PASS
197	Less than 1% of 198	0.0257	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.11	PASS
275	10 - 30% of 198	17.7	PASS
365	1 - 200% of 198	1.91	PASS
441	0.001 - 100% of 443	72.3	PASS
442	40 - 200% of 198	71.5	PASS
443	17 - 23% of 442	20.5	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2F15401	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2F15401-TUN1	SEQ-TUN1.D	05/31/12 17:57
Cal Standard	2F15401-CAL1	SEQ-CAL1.D	05/31/12 18:21
Cal Standard	2F15401-CAL2	SEQ-CAL2.D	05/31/12 18:49
Cal Standard	2F15401-CAL3	SEQ-CAL3.D	05/31/12 19:17
Cal Standard	2F15401-CAL4	SEQ-CAL4.D	05/31/12 19:44
Cal Standard	2F15401-CAL5	SEQ-CAL5.D	05/31/12 20:12
Cal Standard	2F15401-CAL6	SEQ-CAL6.D	05/31/12 20:40
Cal Standard	2F15401-CAL7	SEQ-CAL7.D	05/31/12 21:07
Cal Standard	2F15401-CAL8	SEQ-CAL8.D	05/31/12 21:35
Cal Standard	2F15401-CAL9	SEQ-CAL9.D	05/31/12 22:02
Cal Standard	2F15401-CALA	SEQ-CALA.D	05/31/12 22:30
Cal Standard	2F15401-CALB	SEQ-CALB.D	05/31/12 22:58
Cal Standard	2F15401-CALC	SEQ-CALC.D	05/31/12 23:25
Cal Standard	2F15401-CALD	SEQ-CALD.D	05/31/12 23:53
Cal Standard	2F15401-CALE	SEQ-CALE.D	06/01/12 00:21
Cal Standard	2F15401-CALF	SEQ-CALF.D	06/01/12 00:49
Cal Standard	2F15401-CALG	SEQ-CALG.D	06/01/12 01:16
Initial Cal Check	2F15401-ICV1	SEQ-ICV1.D	06/01/12 01:44
Initial Cal Check	2F15401-ICV2	SEQ-ICV2.D	06/01/12 02:12
MS Tune	2F15401-TUN2	SEQ-TUN2.D	06/01/12 16:21
Initial Cal Check	2F15401-ICV3	SEQ-ICV3.D	06/01/12 16:44
Initial Cal Check	2F15401-ICV4	SEQ-ICV4.D	06/01/12 17:11
MS Tune	2F15401-TUN3	SEQ-TUN1.D	06/04/12 13:05
Initial Cal Check	2F15401-ICV5	SEQ-ICV6.D	06/04/12 15:03

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G20205-TUN1	SEQ-TUN1.D	07/19/12 14:26
Calibration Check	2G20205-CCV1	SEQ-CCV1.D	07/19/12 14:50
Calibration Check	2G20205-CCV2	SEQ-CCV2.D	07/19/12 15:18
Blank	2G11005-BLK1	G11005B1.D	07/19/12 15:47
LCS	2G11005-BS1	G11005L1.D	07/19/12 16:15
GW0625	1207019-01	0701901.D	07/19/12 16:43
GW0626	1207019-03	0701903.D	07/19/12 17:11
GW0627	1207019-05	0701905.D	07/19/12 17:40
GW0628	1207019-07	0701907.D	07/19/12 18:08
GW0628	2G11005-MS1	0701907M.D	07/19/12 18:36
GW0628	2G11005-MSD1	0701907S.D	07/19/12 19:04
GW0623	1207019-10	0701910.D	07/19/12 19:32
GW0624	1207026-01	0702601.D	07/19/12 20:00

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G20205-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/19/12 14:50			
1,4-Dichlorobenzene-d4	648336	5.153	567077	5.575	114	50 - 200	-0.4220	+/-0.50	
Naphthalene-d8	2605087	6.851	2257819	7.266	115	50 - 200	-0.4150	+/-0.50	
Acenaphthene-d10	1133279	9.104	1041422	9.511	109	50 - 200	-0.4070	+/-0.50	
Phenanthrene-d10	1807228	10.885	1729504	11.304	104	50 - 200	-0.4190	+/-0.50	
Chrysene-d12	1480674	14.179	1493143	14.683	99	50 - 200	-0.5040	+/-0.50	
Perylene-d12	1230882	16.324	1350302	16.936	91	50 - 200	-0.6120	+/-0.50	
Calibration Check (2G20205-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/19/12 15:18			
1,4-Dichlorobenzene-d4	620361	5.154	648336	5.153	96	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2432065	6.856	2605087	6.851	93	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	1069767	9.097	1133279	9.104	94	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	1638753	10.885	1807228	10.885	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1382421	14.176	1480674	14.179	93	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1112803	16.321	1230882	16.324	90	50 - 200	-0.0030	+/-0.50	
Blank (2G11005-BLK1)			Lab File ID: G11005B1.D			Analyzed: 07/19/12 15:47			
1,4-Dichlorobenzene-d4	615749	5.154	648336	5.153	95	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2483342	6.856	2605087	6.851	95	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	1035165	9.1	1133279	9.104	91	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1670726	10.886	1807228	10.885	92	50 - 200	0.0010	+/-0.50	
Chrysene-d12	1356113	14.174	1480674	14.179	92	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1084716	16.317	1230882	16.324	88	50 - 200	-0.0070	+/-0.50	
LCS (2G11005-BS1)			Lab File ID: G11005L1.D			Analyzed: 07/19/12 16:15			
1,4-Dichlorobenzene-d4	522943	5.155	648336	5.153	81	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2024076	6.854	2605087	6.851	78	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	916170	9.103	1133279	9.104	81	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1403383	10.894	1807228	10.885	78	50 - 200	0.0090	+/-0.50	
Chrysene-d12	1138935	14.184	1480674	14.179	77	50 - 200	0.0050	+/-0.50	
Perylene-d12	940641	16.327	1230882	16.324	76	50 - 200	0.0030	+/-0.50	
GW0625 (1207019-01)			Lab File ID: 0701901.D			Analyzed: 07/19/12 16:43			
1,4-Dichlorobenzene-d4	509549	5.157	648336	5.153	79	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2009596	6.851	2605087	6.851	77	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	890263	9.102	1133279	9.104	79	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1400441	10.891	1807228	10.885	77	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1132802	14.176	1480674	14.179	77	50 - 200	-0.0030	+/-0.50	
Perylene-d12	911089	16.319	1230882	16.324	74	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0626 (1207019-03)			Lab File ID: 0701903.D			Analyzed: 07/19/12 17:11			
1,4-Dichlorobenzene-d4	496571	5.156	648336	5.153	77	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2019526	6.859	2605087	6.851	78	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	851044	9.1	1133279	9.104	75	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1392618	10.89	1807228	10.885	77	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1125502	14.176	1480674	14.179	76	50 - 200	-0.0030	+/-0.50	
Perylene-d12	900166	16.323	1230882	16.324	73	50 - 200	-0.0010	+/-0.50	
GW0627 (1207019-05)			Lab File ID: 0701905.D			Analyzed: 07/19/12 17:40			
1,4-Dichlorobenzene-d4	509049	5.155	648336	5.153	79	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2005847	6.857	2605087	6.851	77	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	896913	9.1	1133279	9.104	79	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1375936	10.889	1807228	10.885	76	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1128253	14.177	1480674	14.179	76	50 - 200	-0.0020	+/-0.50	
Perylene-d12	910157	16.325	1230882	16.324	74	50 - 200	0.0010	+/-0.50	
GW0628 (1207019-07)			Lab File ID: 0701907.D			Analyzed: 07/19/12 18:08			
1,4-Dichlorobenzene-d4	618728	5.156	648336	5.153	95	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2489408	6.858	2605087	6.851	96	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	1083704	9.099	1133279	9.104	96	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1728196	10.883	1807228	10.885	96	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1408103	14.182	1480674	14.179	95	50 - 200	0.0030	+/-0.50	
Perylene-d12	1102869	16.319	1230882	16.324	90	50 - 200	-0.0050	+/-0.50	
Matrix Spike (2G11005-MS1)			Lab File ID: 0701907M.D			Analyzed: 07/19/12 18:36			
1,4-Dichlorobenzene-d4	609632	5.157	648336	5.153	94	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2455721	6.858	2605087	6.851	94	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	1033052	9.101	1133279	9.104	91	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1706555	10.887	1807228	10.885	94	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1349143	14.181	1480674	14.179	91	50 - 200	0.0020	+/-0.50	
Perylene-d12	1106564	16.327	1230882	16.324	90	50 - 200	0.0030	+/-0.50	
Matrix Spike Dup (2G11005-MSD1)			Lab File ID: 0701907S.D			Analyzed: 07/19/12 19:04			
1,4-Dichlorobenzene-d4	586325	5.153	648336	5.153	90	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2350437	6.859	2605087	6.851	90	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	1026389	9.098	1133279	9.104	91	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1640954	10.888	1807228	10.885	91	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1326314	14.18	1480674	14.179	90	50 - 200	0.0010	+/-0.50	
Perylene-d12	1099007	16.322	1230882	16.324	89	50 - 200	-0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20205	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0623 (1207019-10)			Lab File ID: 0701910.D			Analyzed: 07/19/12 19:32			
1,4-Dichlorobenzene-d4	597194	5.153	648336	5.153	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2306040	6.853	2605087	6.851	89	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1022674	9.095	1133279	9.104	90	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1652951	10.884	1807228	10.885	91	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1316857	14.181	1480674	14.179	89	50 - 200	0.0020	+/-0.50	
Perylene-d12	1082099	16.323	1230882	16.324	88	50 - 200	-0.0010	+/-0.50	
GW0624 (1207026-01)			Lab File ID: 0702601.D			Analyzed: 07/19/12 20:00			
1,4-Dichlorobenzene-d4	559594	5.156	648336	5.153	86	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2188652	6.857	2605087	6.851	84	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	949239	9.099	1133279	9.104	84	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1484765	10.885	1807228	10.885	82	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1259837	14.174	1480674	14.179	85	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1029172	16.319	1230882	16.324	84	50 - 200	-0.0050	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	1.126373	10	1.126661	20	1.136371	40	1.207778	50	1.183683	60	1.180749
Acenaphthylene	5	1.810842	10	1.826999	20	1.946601	40	1.95698	50	1.93577	60	1.957812
Acetophenone												
Aniline	5	2.461105	10	2.59521	20	2.791143	40	2.610428	50	2.69129	60	2.589195
Anthracene	5	1.014193	10	1.004991	20	1.0912	40	1.07423	50	1.02393	60	1.072449
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.023662	10	1.064105	20	1.135045	40	1.146272	50	1.143449	60	1.173419
Benzo(a)pyrene	5	0.9256968	10	1.009923	20	1.044091	40	1.053488	50	1.090938	60	1.062997
Benzo(b)fluoranthene	5	1.049749	10	1.119984	20	1.110806	40	1.136291	50	1.228656	60	1.099329
Benzo(g,h,i)perylene	5	0.8228635	10	0.9017828	20	0.9584962	40	0.9613374	50	0.9745618	60	0.9591791
Benzoic acid	5	~~8.240963E-02~~	10	~~0.1021864~~	20	0.1472441	40	0.1907186	50	0.2085996	60	0.2242009
Benzo(k)fluoranthene	5	1.062616	10	1.151443	20	1.247663	40	1.19235	50	1.198395	60	1.276877
Benzyl alcohol	5	0.9754856	10	0.9854316	20	1.03627	40	1.043161	50	1.014095	60	1.001162
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.1781673	10	0.1784268	20	0.1945771	40	0.1931838	50	0.1904274	60	0.1941092
Butylbenzylphthalate	5	0.540657	10	0.5849321	20	0.6844322	40	0.6688168	50	0.7151465	60	0.7108238
Caprolactam												
Carbazole	5	1.013438	10	0.9751917	20	1.063112	40	1.032205	50	1.009288	60	1.016735
4-Chloro-3-methylphenol	5	0.2681562	10	0.2746706	20	0.3034465	40	0.3014856	50	0.3057008	60	0.295067
4-Chloroaniline	5	0.4179676	10	0.4118575	20	0.4561695	40	0.4481711	50	0.4411264	60	0.4383111
Bis(2-chloroethoxy)methane	5	0.5149505	10	0.5117899	20	0.5567584	40	0.5304999	50	0.5252526	60	0.5183715
Bis(2-chloroethyl)ether	5	1.79464	10	1.92201	20	1.933689	40	1.82667	50	1.849083	60	1.801492
2,2'-Oxybis-1-chloropropane	5	2.363796	10	2.476656	20	2.412512	40	2.300807	50	2.318796	60	2.222365
2-Chloronaphthalene	5	1.13273	10	1.117619	20	1.175043	40	1.176633	50	1.145012	60	1.229649
2-Chlorophenol	5	1.392984	10	1.416555	20	1.534166	40	1.524408	50	1.506707	60	1.496356
4-Chlorophenyl phenyl ether	5	0.5904094	10	0.5813123	20	0.5912155	40	0.578043	50	0.5830776	60	0.5832737
Chrysene	5	1.046865	10	1.023335	20	1.081624	40	1.06487	50	1.081586	60	1.04815
Dibenz(a,h)anthracene	5	0.7885676	10	0.9019827	20	0.9510476	40	0.9365455	50	0.9787881	60	0.9711654
Dibenzofuran	5	1.526746	10	1.532649	20	1.563857	40	1.629439	50	1.595734	60	1.561346

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	1.305877	10	1.277559	20	1.478226	40	1.504704	50	1.450457	60	1.566813
1,4-Dichlorobenzene	5	1.408334	10	1.40895	20	1.512679	40	1.46844	50	1.495222	60	1.444385
1,3-Dichlorobenzene	5	1.376031	10	1.431382	20	1.502069	40	1.43419	50	1.465406	60	1.413851
1,2-Dichlorobenzene	5	1.336277	10	1.327384	20	1.422078	40	1.364305	50	1.383533	60	1.348974
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2154991	10	0.223946	20	0.2462342	40	0.2558014	50	0.2492882	60	0.2506124
Diethylphthalate	5	1.270876	10	1.320807	20	1.381461	40	1.377271	50	1.385767	60	1.415821
2,4-Dimethylphenol	5	0.346181	10	0.3487812	20	0.3705044	40	0.3578533	50	0.3502636	60	0.3508821
Dimethyl phthalate	5	1.283415	10	1.306138	20	1.340225	40	1.37046	50	1.306569	60	1.358887
4,6-Dinitro-2-methylphenol	5	~~8.258835E-02~~	10	9.743835E-02	20	0.1195989	40	0.1417304	50	0.1474593	60	0.1594134
2,4-Dinitrophenol	5	~~0.1057435~~	10	0.1257444	20	0.1586353	40	0.1914349	50	0.2020648	60	0.2157894
2,4-Dinitrotoluene	5	0.3259939	10	0.370293	20	0.3950459	40	0.4356606	50	0.4180124	60	0.4246641
2,6-Dinitrotoluene	5	0.2872698	10	0.2920352	20	0.3201515	40	0.3141573	50	0.3178789	60	0.3327001
Di-n-octylphthalate	5	1.13257	10	1.356646	20	1.581187	40	1.78149	50	1.89801	60	1.912101
1,4-Dioxane												
1,2-Diphenylhydrazine	5	1.190229	10	1.219457	20	1.302156	40	1.200231	50	1.172083	60	1.253691
Bis(2-ethylhexyl)phthalate	5	0.7668985	10	0.8121303	20	0.9357354	40	0.9596238	50	0.9817301	60	0.976526
Fluoranthene	5	1.062951	10	1.074676	20	1.198513	40	1.177869	50	1.103442	60	1.103923
Fluorene	5	1.223545	10	1.234006	20	1.271113	40	1.239998	50	1.213156	60	1.229349
2-Fluorobiphenyl	5	1.240671	10	1.280891	20	1.29841	40	1.294668	50	1.297831	60	1.364536
2-Fluorophenol	10	1.425017	20	1.467693	40	1.586937	80	1.540058	100	1.517234	120	1.490853
Hexachlorobenzene	5	0.2033176	10	0.1971483	20	0.2152024	40	0.2116395	50	0.2081886	60	0.2112997
Hexachlorobutadiene	5	0.1370517	10	0.1355859	20	0.1482413	40	0.1409609	50	0.141565	60	0.1404629
Hexachlorocyclopentadiene	5	0.2927981	10	0.3220645	20	0.3316502	40	0.340652	50	0.3455415	60	0.370985
Hexachloroethane	5	0.7054781	10	0.6586897	20	0.7333452	40	0.6590675	50	0.6797874	60	0.665835
Indeno(1,2,3-cd)pyrene	5	0.9780185	10	1.036435	20	1.131378	40	1.125406	50	1.155951	60	1.143272
Isophorone	5	0.8400887	10	0.8101089	20	0.8968455	40	0.8736712	50	0.8802044	60	0.8739238
1-Methylnaphthalene	5	0.4867605	10	0.4715883	20	0.5151534	40	0.5068099	50	0.4944881	60	0.4903482
2-Methylnaphthalene	5	0.4979257	10	0.4933083	20	0.5283806	40	0.5154121	50	0.5210468	60	0.5090314
2-Methylphenol	5	1.360867	10	1.390202	20	1.449519	40	1.444984	50	1.436217	60	1.358288

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2156006	Instrument:	MS-BNA1	
Matrix:	Water	Calibration Dates:	5/31/12 18:21	6/1/12 1:16

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	1.340828	10	1.421969	20	1.555837	40	1.455048	50	1.481826	60	1.43736
4-Methylphenol	5	1.340828	10	1.421969	20	1.555837	40	1.455048	50	1.481826	60	1.43736
3-Methylphenol/4-Methylphenol	5	1.340828	10	1.421969	20	1.555837	40	1.455048	50	1.481826	60	1.43736
Naphthalene	5	1.04581	10	1.008543	20	1.131666	40	1.05418	50	1.066415	60	1.061675
4-Nitroaniline	5	0.3425526	10	0.3790494	20	0.4144153	40	0.4387588	50	0.4386155	60	0.4528719
3-Nitroaniline	5	0.3778062	10	0.4018527	20	0.427857	40	0.4563724	50	0.4511324	60	0.4552402
2-Nitroaniline	5	0.3348095	10	0.3794587	20	0.4097382	40	0.3964288	50	0.4169248	60	0.4094302
Nitrobenzene	5	0.4676748	10	0.4263656	20	0.4549903	40	0.4449821	50	0.4400608	60	0.4364229
Nitrobenzene-d5	5	0.4391221	10	0.4112926	20	0.4614935	40	0.4362959	50	0.44672	60	0.4445621
4-Nitrophenol	5	0.2405149	10	0.262735	20	0.2735694	40	0.2895708	50	0.2836056	60	0.3122808
2-Nitrophenol	5	0.1700531	10	0.1738362	20	0.1976594	40	0.1932137	50	0.1998064	60	0.2032045
N-Nitrosodimethylamine	5	0.6269734	10	0.59035	20	0.6517906	40	0.6216008	50	0.6093813	60	0.5738985
N-Nitrosodiphenylamine	5	0.5884764	10	0.6014375	20	0.6492499	40	0.6089782	50	0.6264034	60	0.6216496
N-Nitroso-di-n-propylamine	5	1.189603	10	1.156485	20	1.190885	40	1.171331	50	1.192116	60	1.134954
Pentachlorophenol	5	~~8.153637E-02~~	10	9.572368E-02	20	0.1293694	40	0.1371883	50	0.1373123	60	0.1416215
Phenanthrene	5	1.014155	10	1.006672	20	1.061624	40	1.065084	50	1.016924	60	1.03761
Phenol	5	2.439416	10	2.384831	20	2.521563	40	2.386374	50	2.341627	60	2.276088
Phenol-d6	10	1.976918	20	1.970167	40	2.125538	80	2.024099	100	2.06832	120	1.968604
Pyrene	5	1.217607	10	1.246171	20	1.316716	40	1.285709	50	1.335394	60	1.32673
Pyridine	5	2.217909	10	2.319321	20	2.362185	40	2.245072	50	2.304893	60	2.132767
Terphenyl-d14	5	0.6870783	10	0.7499243	20	0.7736616	40	0.7546076	50	0.7667226	60	0.7702226
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2713826	10	0.2770377	20	0.2900389	40	0.3048646	50	0.3105629	60	0.313908
2,4,6-Tribromophenol	10	9.588103E-02	20	9.818431E-02	40	0.1149666	80	0.1157648	100	0.111198	120	0.116375
1,2,4-Trichlorobenzene	5	0.2466628	10	0.2378432	20	0.2632445	40	0.255608	50	0.2597381	60	0.2527829
2,4,6-Trichlorophenol	5	0.3270577	10	0.3414148	20	0.3497186	40	0.3710868	50	0.3712814	60	0.3860436
2,4,5-Trichlorophenol	5	0.3185211	10	0.3294909	20	0.365739	40	0.3767376	50	0.3831701	60	0.3975717

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	1.058327	100	1.075952								
Acenaphthylene	80	1.766561	100	1.807569								
Acetophenone					5	1.909817	10	2.031129	20	2.039047	40	2.018201
Aniline	80	2.56114	100	2.442012								
Anthracene	80	1.093431	100	1.063954								
Atrazine					5	0.1668844	10	0.1757564	20	0.1836768	40	0.1907388
Benzaldehyde					5	1.357752	10	1.334678	20	1.373112	40	1.372376
Benzidine					5	0.6830456	10	0.7212548	20	0.8033707	40	0.8249081
Benzo(a)anthracene	80	1.184845	100	1.145572								
Benzo(a)pyrene	80	1.077988	100	1.036302								
Benzo(b)fluoranthene	80	1.131156	100	1.080335								
Benzo(g,h,i)perylene	80	0.9573059	100	0.9263243								
Benzoic acid	80	0.2406599	100	0.2603454								
Benzo(k)fluoranthene	80	1.16585	100	1.171508								
Benzyl alcohol	80	1.029513	100	1.035805								
1,1-Biphenyl					5	1.43531	10	1.485164	20	1.474266	40	1.495622
4-Bromophenyl-phenylether	80	0.1927913	100	0.1887663								
Butylbenzylphthalate	80	0.7341818	100	0.7261509								
Caprolactam					5	9.768377E-02	10	0.104025	20	0.1135163	40	0.1237562
Carbazole	80	1.012087	100	0.9890369								
4-Chloro-3-methylphenol	80	0.2932545	100	0.2890361								
4-Chloroaniline	80	0.4483115	100	0.4320235								
Bis(2-chloroethoxy)methane	80	0.4905203	100	0.497847								
Bis(2-chloroethyl)ether	80	1.844531	100	1.824293								
2,2'-Oxybis-1-chloropropane	80	2.233244	100	2.249014								
2-Chloronaphthalene	80	1.06362	100	1.133535								
2-Chlorophenol	80	1.532319	100	1.543943								
4-Chlorophenyl phenyl ether	80	0.5067925	100	0.5106141								
Chrysene	80	1.066935	100	1.042461								
Dibenz(a,h)anthracene	80	0.9601124	100	0.9315984								
Dibenzofuran	80	1.516069	100	1.529287								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	1.478792	100	1.316343								
1,4-Dichlorobenzene	80	1.440058	100	1.424768								
1,3-Dichlorobenzene	80	1.419489	100	1.428808								
1,2-Dichlorobenzene	80	1.360182	100	1.328803								
3,3'-Dichlorobenzidine					5	0.3313013	10	0.3525136	20	0.3766457	40	0.4004942
2,6-Dichlorophenol					5	0.2116836	10	0.2297115	20	0.2340374	40	0.2438428
2,4-Dichlorophenol	80	0.2419917	100	0.2447231								
Diethylphthalate	80	1.341489	100	1.411306								
2,4-Dimethylphenol	80	0.3388421	100	0.3521381								
Dimethyl phthalate	80	1.239793	100	1.297666								
4,6-Dinitro-2-methylphenol	80	0.1657449	100	0.1650316								
2,4-Dinitrophenol	80	0.2095114	100	0.221143								
2,4-Dinitrotoluene	80	0.4230432	100	0.4283516								
2,6-Dinitrotoluene	80	0.2957203	100	0.3063496								
Di-n-octylphthalate	80	1.966801	100	1.903473								
1,4-Dioxane					5	1.144446	10	0.804527	20	0.7823947	40	0.8116822
1,2-Diphenylhydrazine	80	1.16861	100	1.146099								
Bis(2-ethylhexyl)phthalate	80	0.9999323	100	0.9773898								
Fluoranthene	80	1.156661	100	1.055531								
Fluorene	80	1.040954	100	1.08819								
2-Fluorobiphenyl	80	1.183214	100	1.241869								
2-Fluorophenol	160	1.462558	200	1.470653								
Hexachlorobenzene	80	0.2160123	100	0.2064807								
Hexachlorobutadiene	80	0.1374434	100	0.1396075								
Hexachlorocyclopentadiene	80	0.3430654	100	0.3549931								
Hexachloroethane	80	0.6555376	100	0.6572187								
Indeno(1,2,3-cd)pyrene	80	1.137759	100	1.102703								
Isophorone	80	0.8661524	100	0.8720059								
1-Methylnaphthalene	80	0.4699895	100	0.4694343								
2-Methylnaphthalene	80	0.4913134	100	0.4928645								
2-Methylphenol	80	1.375262	100	1.360828								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	1.429646	100	1.419856								
4-Methylphenol	80	1.429646	100	1.419856								
3-Methylphenol/4-Methylphenol	80	1.429646	100	1.419856								
Naphthalene	80	1.018101	100	1.016697								
4-Nitroaniline	80	0.4391007	100	0.4375337								
3-Nitroaniline	80	0.4129324	100	0.4211253								
2-Nitroaniline	80	0.383058	100	0.4032748								
Nitrobenzene	80	0.4299797	100	0.4398174								
Nitrobenzene-d5	80	0.4348711	100	0.4433668								
4-Nitrophenol	80	0.2820391	100	0.2887068								
2-Nitrophenol	80	0.2000968	100	0.2043441								
N-Nitrosodimethylamine	80	0.5785712	100	0.5806788								
N-Nitrosodiphenylamine	80	0.6195758	100	0.6132362								
N-Nitroso-di-n-propylamine	80	1.117607	100	1.115744								
Pentachlorophenol	80	0.1436813	100	0.1432464								
Phenanthrene	80	1.058948	100	0.9871006								
Phenol	80	2.166796	100	2.084501								
Phenol-d6	160	1.945001	200	1.906219								
Pyrene	80	1.319631	100	1.31167								
Pyridine	80	2.152654	100	2.199151								
Terphenyl-d14	80	0.7576691	100	0.7481279								
1,2,4,5-Tetrachlorobenzene					5	0.2673972	10	0.2585537	20	0.2568752	40	0.2752239
2,3,4,6-Tetrachlorophenol	80	0.3015184	100	0.3140667								
2,4,6-Tribromophenol	160	0.115848	200	0.1109646								
1,2,4-Trichlorobenzene	80	0.245253	100	0.2497424								
2,4,6-Trichlorophenol	80	0.3535512	100	0.3693888								
2,4,5-Trichlorophenol	80	0.3697035	100	0.3711222								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	1.970584	60	2.005776	80	1.939757	100	1.940128				
Aniline												
Anthracene												
Atrazine	50	0.1992863	60	0.203983	80	0.1849645	100	0.1915681				
Benzaldehyde	50	1.310853	60	1.34766	80	1.279366	100	1.261819				
Benzidine	50	0.8559782	60	0.8868889	80	0.8803441	100	0.8857341				
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	1.477857	60	1.508824	80	1.447525	100	1.35277				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1217425	60	0.1291279	80	0.1187536	100	0.1252729				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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	0.4015406	60	0.4031838	80	0.4021314	100	0.4067897				
2,6-Dichlorophenol	50	0.239802	60	0.2546334	80	0.242233	100	0.245765				
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	0.7646333	60	0.7828108	80	0.7489522	100	0.7514672				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2156006	Instrument:	MS-BNA1	
Matrix:	Water	Calibration Dates:	5/31/12 18:21	6/1/12 1:16

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	0.256451	60	0.2609758	80	0.253498	100	0.2489809				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2156006		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	5/31/12 18:21	6/1/12 1:16

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.136987	4.610921	9.54875	2.537973E-02			CCC (20)	
Acenaphthylene	1.876142	4.278989	9.3145	2.862828E-02			CCC (20)	
Acetophenone	1.981805	2.443984	6.14725	2.928372E-02			CCC (20)	
Aniline	2.59269	4.384402	5.211375	3.113529E-02			CCC (20)	
Anthracene	1.054797	3.337087	11.38587	3.183207E-02			CCC (20)	
Atrazine	0.1871073	6.452663	11.01525	3.267773E-02			CCC (20)	
Benzaldehyde	1.329702	3.157148	5.021375	0.1027376			CCC (20)	
Benzidine	0.8176906	9.528755	12.95575	2.858378E-02			CCC (20)	
Benzo(a)anthracene	1.127046	4.881377	14.65812	2.460934E-02			CCC (20)	
Benzo(a)pyrene	1.037678	4.981683	16.838	3.725826E-02			CCC (20)	
Benzo(b)fluoranthene	1.119538	4.679822	16.32837	2.557249E-02			CCC (20)	
Benzo(g,h,i)perylene	0.9327314	5.376684	19.03263	4.978478E-02			CCC (20)	
Benzoic acid	0.2119614	18.8304	7.0335	0.3891312	0.9954999		CCC (20)	
Benzo(k)fluoranthene	1.183338	5.460999	16.36925	3.987242E-02			CCC (20)	
Benzyl alcohol	1.015115	2.502371	5.797875	4.476311E-02			CCC (20)	
1,1-Biphenyl	1.459667	3.383217	8.780125	3.729296E-02			CCC (20)	
4-Bromophenyl-phenylether	0.1888061	3.581119	10.76175	2.470838E-02			CCC (20)	
Butylbenzylphthalate	0.6706426	10.56623	13.936	2.374556E-02			CCC (20)	
Caprolactam	0.1167348	9.382822	7.773375	0.1378084			CCC (20)	
Carbazole	1.013887	2.61118	11.59225	3.206885E-02			CCC (20)	
4-Chloro-3-methylphenol	0.2913522	4.666513	8.03675	4.274257E-02			CCC (20)	
4-Chloroaniline	0.4367423	3.523411	7.40025	3.757596E-02			CCC (20)	
Bis(2-chloroethoxy)methane	0.5182488	3.940866	6.9935	4.402514E-02			CCC (20)	
Bis(2-chloroethyl)ether	1.849551	2.805056	5.289375	3.462935E-02			CCC (20)	
2,2'-Oxybis-1-chloropropane	2.322149	3.901215	6.005625	4.703934E-02			CCC (20)	
2-Chloronaphthalene	1.14673	4.259283	8.787375	2.466258E-02			CCC (20)	
2-Chlorophenol	1.49343	3.827145	5.348	3.591251E-02			CCC (20)	
4-Chlorophenyl phenyl ether	0.5655923	6.259231	10.17075	3.352785E-02			CCC (20)	
Chrysene	1.056978	1.924721	14.72312	2.782504E-02			CCC (20)	
Dibenz(a,h)anthracene	0.927476	6.59718	18.62625	4.077529E-02			CCC (20)	
Dibenzofuran	1.556891	2.518876	9.742375	3.108054E-02			CCC (20)	
Di-n-butylphthalate	1.422346	7.540338	12.08013	0.0246113			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.450355	2.670476	5.603125	4.683992E-02			CCC (20)	
1,3-Dichlorobenzene	1.433903	2.586767	5.5345	4.321722E-02			CCC (20)	
1,2-Dichlorobenzene	1.358942	2.349938	5.850625	6.495423E-02			CCC (20)	
3,3'-Dichlorobenzidine	0.384325	7.371056	14.655	2.221076E-02			CCC (20)	
2,6-Dichlorophenol	0.2377136	5.435301	7.404625	0.0297561			15	
2,4-Dichlorophenol	0.241012	5.790922	7.105625	0.0379082			CCC (20)	
Diethylphthalate	1.3631	3.60638	10.1085	4.833197E-02			CCC (20)	
2,4-Dimethylphenol	0.3519307	2.6269	6.8725	3.935577E-02			CCC (20)	
Dimethyl phthalate	1.312894	3.245142	9.238625	5.225678E-02			CCC (20)	
4,6-Dinitro-2-methylphenol	0.1423453	17.94308	10.29343	4.115558E-02	0.9980523		CCC (20)	
2,4-Dinitrophenol	0.189189	18.4006	9.607429	0.0282888	0.9981513		CCC (20)	
2,4-Dinitrotoluene	0.4026331	9.32502	9.79725	0.0617772			CCC (20)	
2,6-Dinitrotoluene	0.3082828	5.100586	9.322875	3.375428E-02			CCC (20)	
Di-n-octylphthalate	1.691535	18.1091	15.73738	8.920026E-03	0.998712		CCC (20)	
1,4-Dioxane	0.8238642	15.96241	2.38425	0.2127164	0.9987984		0.995	
1,2-Diphenylhydrazine	1.206569	4.216433	10.35925	3.046759E-02			CCC (20)	
Bis(2-ethylhexyl)phthalate	0.9262458	9.418168	14.78912	2.073609E-02			CCC (20)	
Fluoranthene	1.116696	4.877621	12.78262	2.488438E-02			CCC (20)	
Fluorene	1.192539	6.8531	10.1635	1.831758E-02			CCC (20)	
2-Fluorobiphenyl	1.275261	4.213199	8.675375	0.0388525			CCC (20)	
2-Fluorophenol	1.495125	3.418147	4.023	8.822776E-02			CCC (20)	
Hexachlorobenzene	0.2086611	3.024166	10.94213	3.344562E-02			CCC (20)	
Hexachlorobutadiene	0.1401148	2.780776	7.536625	3.397306E-02			CCC (20)	
Hexachlorocyclopentadiene	0.3377187	6.901918	8.47325	4.298849E-02			CCC (20)	
Hexachloroethane	0.6768699	4.188695	6.2545	5.956743E-02			CCC (20)	
Indeno(1,2,3-cd)pyrene	1.101365	5.635983	18.5995	4.070788E-02			CCC (20)	
Isophorone	0.8641251	3.116903	6.678	4.714209E-02			CCC (20)	
1-Methylnaphthalene	0.4880715	3.530661	8.31475	3.359849E-02			CCC (20)	
2-Methylnaphthalene	0.5061603	2.833051	8.176375	3.303677E-02			CCC (20)	
2-Methylphenol	1.397021	2.867079	5.980125	0.0642539			CCC (20)	
3-Methylphenol	1.442796	4.225024	6.17775	5.592369E-02			CCC (20)	
4-Methylphenol	1.442796	4.225024	6.17775	5.592369E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.442796	4.225024	6.17775	5.592369E-02			15	
Naphthalene	1.050386	3.766123	7.291375	3.582831E-02	0.9987203		CCC (20)	
4-Nitroaniline	0.4178622	9.099725	10.24962	7.654662E-02			CCC (20)	
3-Nitroaniline	0.4255398	6.59374	9.490375	2.393136E-02			CCC (20)	
2-Nitroaniline	0.3916404	6.751009	8.97175	3.005722E-02			CCC (20)	
Nitrobenzene	0.4425367	3.03541	6.375375	3.630387E-02			CCC (20)	
Nitrobenzene-d5	0.4397155	3.220291	6.35475	3.087934E-02			CCC (20)	
4-Nitrophenol	0.2791278	7.562366	9.705	0.0308043			CCC (20)	
2-Nitrophenol	0.1927768	6.917105	6.80025	5.004085E-02			CCC (20)	
N-Nitrosodimethylamine	0.6041556	4.611359	2.67875	0.1737974			CCC (20)	
N-Nitrosodiphenylamine	0.6161259	2.932406	10.329	4.367276E-02			CCC (20)	
N-Nitroso-di-n-propylamine	1.158591	2.800488	6.19	6.883484E-02			CCC (20)	
Pentachlorophenol	0.1325918	12.81054	11.16014	1.113155E-02	0.999758		CCC (20)	
Phenanthrene	1.031015	2.821899	11.33125	1.322467E-02			CCC (20)	
Phenol	2.325149	6.181608	5.19525	0.1100308			CCC (20)	
Phenol-d6	1.998108	3.54938	5.180875	5.928961E-02			CCC (20)	
Pyrene	1.294953	3.257355	13.05513	2.380264E-02			CCC (20)	
Pyridine	2.241744	3.644244	2.689625	0.2590654			CCC (20)	
Terphenyl-d14	0.7510018	3.658113	13.261	2.512336E-02			CCC (20)	
1,2,4,5-Tetrachlorobenzene	0.2597445	3.171612	8.44075	0.0181102			CCC (20)	
2,3,4,6-Tetrachlorophenol	0.2979225	5.587562	9.953375	3.236325E-02			CCC (20)	
2,4,6-Tribromophenol	0.1098978	7.487575	10.48813	3.709326E-02			CCC (20)	
1,2,4-Trichlorobenzene	0.2513594	3.281268	7.214625	4.030846E-02			CCC (20)	
2,4,6-Trichlorophenol	0.3586929	5.353135	8.578	0.0371309			CCC (20)	
2,4,5-Trichlorophenol	0.364007	7.343881	8.621625	0.0356141			CCC (20)	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV1	Injection Time:	01:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	52.28	1.136987	1.18891	0.9	4.6	20
Acenaphthylene	A	50.00	52.97	1.876142	1.987563	0.9	5.9	20
Anthracene	A	50.00	56.85	1.054797	1.199221	0.7	13.7	20
Benzo(a)anthracene	A	50.00	55.91	1.127046	1.260227	0.8	11.8	20
Benzo(a)pyrene	A	50.00	55.56	1.037678	1.15312	0.7	11.1	20
Benzo(b)fluoranthene	A	50.00	56.27	1.119538	1.259969	0.7	12.5	20
Benzo(g,h,i)perylene	A	50.00	56.39	0.9327314	1.051889	0.5	12.8	20
Benzoic acid	L	50.00	50.34	0.2119614	0.2192291	0.01	0.7	20
Benzo(k)fluoranthene	A	50.00	58.47	1.183338	1.383682	0.7	16.9	20
4-Bromophenyl-phenylether	A	50.00	56.88	0.1888061	0.2147915	0.1	13.8	20
Butylbenzylphthalate	A	50.00	55.94	0.6706426	0.7502704	0.01	11.9	20
Carbazole	A	50.00	59.92	1.013887	1.214997	0.01	19.8	20
4-Chloro-3-methylphenol	A	50.00	55.75	0.2913522	0.3248366	0.2	11.5	20
4-Chloroaniline	A	50.00	53.60	0.4367423	0.4682288	0.01	7.2	20
Bis(2-chloroethoxy)methane	A	50.00	56.04	0.5182488	0.5808419	0.3	12.1	20
Bis(2-chloroethyl)ether	A	50.00	54.62	1.849551	2.020398	0.7	9.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	55.20	2.322149	2.56365	0.01	10.4	20
2-Chloronaphthalene	A	50.00	52.86	1.14673	1.212368	0.8	5.7	20
2-Chlorophenol	A	50.00	55.72	1.49343	1.664365	0.8	11.4	20
4-Chlorophenyl phenyl ether	A	50.00	53.75	0.5655923	0.6079644	0.4	7.5	20
Chrysene	A	50.00	57.18	1.056978	1.208818	0.7	14.4	20
Dibenz(a,h)anthracene	A	50.00	56.43	0.927476	1.046834	0.4	12.9	20
Dibenzofuran	A	50.00	54.71	1.556891	1.703596	0.8	9.4	20
Di-n-butylphthalate	A	50.00	53.90	1.422346	1.533229	0.01	7.8	20
2,4-Dichlorophenol	A	50.00	57.15	0.241012	0.2754647	0.2	14.3	20
Diethylphthalate	A	50.00	51.62	1.3631	1.407182	0.01	3.2	20
2,4-Dimethylphenol	A	50.00	56.37	0.3519307	0.3967907	0.2	12.7	20
Dimethyl phthalate	A	50.00	53.43	1.312894	1.40299	0.01	6.9	20
4,6-Dinitro-2-methylphenol	L	50.00	56.94	0.1423453	0.1787024	0.01	13.9	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV1	Injection Time:	01:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	49.86	0.189189	0.204172	0.01	-0.3	20
2,4-Dinitrotoluene	A	50.00	56.18	0.4026331	0.4523617	0.2	12.4	20
2,6-Dinitrotoluene	A	50.00	53.37	0.3082828	0.3290546	0.2	6.7	20
Di-n-octylphthalate	L	50.00	53.80	1.691535	2.025073	0.01	7.6	20
1,2-Diphenylhydrazine	A	50.00	58.61	1.206569	1.414303	0.01	17.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	55.82	0.9262458	1.034102	0.01	11.6	20
Fluoranthene	A	50.00	57.49	1.116696	1.284003	0.6	15.0	20
Fluorene	A	50.00	53.38	1.192539	1.273271	0.9	6.8	20
Hexachlorobenzene	A	50.00	57.79	0.2086611	0.2411885	0.1	15.6	20
Hexachlorobutadiene	A	50.00	59.70	0.1401148	0.167303	0.01	19.4	20
Hexachlorocyclopentadiene	A	50.00	43.19	0.3377187	0.291715	0.05	-13.6	20
Hexachloroethane	A	50.00	52.64	0.6768699	0.7125546	0.3	5.3	20
Indeno(1,2,3-cd)pyrene	A	50.00	56.43	1.101365	1.242899	0.5	12.9	20
Isophorone	A	50.00	55.82	0.8641251	0.9647871	0.4	11.6	20
1-Methylnaphthalene	A	50.00	55.32	0.4880715	0.5400463	0.01	10.6	20
2-Methylnaphthalene	A	50.00	53.82	0.5061603	0.5448451	0.4	7.6	20
2-Methylphenol	A	50.00	56.69	1.397021	1.58382	0.7	13.4	20
3-Methylphenol/4-Methylphenol	A	50.00	55.23	1.442796	1.593735		10.5	20
4-Nitroaniline	A	50.00	55.74	0.4178622	0.4658575	0.01	11.5	20
3-Nitroaniline	A	50.00	54.25	0.4255398	0.4617218	0.01	8.5	20
2-Nitroaniline	A	50.00	59.60	0.3916404	0.4668146	0.01	19.2	20
Nitrobenzene	A	50.00	55.56	0.4425367	0.4917633	0.2	11.1	20
4-Nitrophenol	A	50.00	53.18	0.2791278	0.2968784	0.01	6.4	20
2-Nitrophenol	A	50.00	55.62	0.1927768	0.2144334	0.1	11.2	20
N-Nitrosodiphenylamine	A	50.00	56.94	0.6161259	0.7016204	0.01	13.9	20
N-Nitroso-di-n-propylamine	A	50.00	55.53	1.158591	1.286832	0.5	11.1	20
Phenanthrene	A	50.00	59.85	1.031015	1.234194	0.7	19.7	20
Phenol	A	50.00	55.06	2.325149	2.56064	0.8	10.1	20
Pyrene	A	50.00	55.24	1.294953	1.430664	0.6	10.5	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV1	Injection Time:	01:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4,6-Trichlorophenol	A	50.00	54.83	0.3586929	0.393337	0.2	9.7	20
2,4,5-Trichlorophenol	A	50.00	55.16	0.364007	0.4015604	0.2	10.3	20
2-Fluorobiphenyl	A	50.00	50.86	1.275261	1.297282	0.01	1.7	20
2-Fluorophenol	A	100.0	113.2	1.495125	1.692861	0.01	13.2	20
Nitrobenzene-d5	A	50.00	53.39	0.4397155	0.4695129	0.01	6.8	20
Phenol-d6	A	100.0	105.1	1.998108	2.100183	0.01	5.1	20
Terphenyl-d14	A	50.00	56.97	0.7510018	0.8556918	0.01	13.9	20
2,4,6-Tribromophenol	A	100.0	112.7	0.1098978	0.1238618	0.01	12.7	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV2	Injection Time:	02:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.73	1.981805	1.931304	0.01	-2.5	20
Atrazine	A	50.00	49.17	0.1871073	0.1839875	0.01	-1.7	20
Benzaldehyde	A	50.00	42.00	1.329702	1.116907	0.01	-16.0	20
1,1-Biphenyl	A	50.00	52.43	1.459667	1.530492	0.01	4.9	20
Caprolactam	A	50.00	56.08	0.1167348	0.1309352	0.01	12.2	20
3,3'-Dichlorobenzidine	A	50.00	52.39	0.384325	0.4026831	0.01	4.8	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV3	Injection Time:	16:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Naphthalene	L	50.00	59.82	1.050386	1.239127	0.7	19.6	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV4	Injection Time:	17:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzidine	A	50.00	55.53	0.8176906	0.9080606	0.01	11.1	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV6.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/04/12
Lab Sample ID:	2F15401-ICV5	Injection Time:	15:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	L	50.00	49.91	0.1325918	0.1389722	0.05	-0.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2G20205	Injection Date:	07/19/12
Lab Sample ID:	2G20205-CCV1	Injection Time:	14:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	51.02	1.136987	1.160182	0.9	2.0	20	
Acenaphthylene	A	50.00	54.26	1.876142	2.036058	0.9	8.5	20	
Anthracene	A	50.00	51.54	1.054797	1.08734	0.7	3.1	20	
Benzo(a)anthracene	A	50.00	48.85	1.127046	1.101178	0.8	-2.3	20	
Benzo(a)pyrene	A	50.00	49.03	1.037678	1.017573	0.7	-1.9	20	
Benzo(b)fluoranthene	A	50.00	50.48	1.119538	1.130317	0.7	1.0	20	
Benzo(g,h,i)perylene	A	50.00	50.15	0.9327314	0.9356172	0.5	0.3	20	
Benzoic acid	L	50.00	53.59	0.2119614	0.2381823	0.01	7.2	20	
Benzo(k)fluoranthene	A	50.00	49.23	1.183338	1.165216	0.7	-1.5	20	
4-Bromophenyl-phenylether	A	50.00	50.69	0.1888061	0.1914158	0.1	1.4	20	
Butylbenzylphthalate	A	50.00	56.58	0.6706426	0.7589684	0.01	13.2	20	
Carbazole	A	50.00	50.89	1.013887	1.032003	0.01	1.8	20	
4-Chloro-3-methylphenol	A	50.00	47.86	0.2913522	0.2789131	0.2	-4.3	20	
4-Chloroaniline	A	50.00	48.54	0.4367423	0.4239818	0.01	-2.9	20	
Bis(2-chloroethoxy)methane	A	50.00	45.86	0.5182488	0.4752938	0.3	-8.3	20	
Bis(2-chloroethyl)ether	A	50.00	46.95	1.849551	1.736849	0.7	-6.1	20	
2,2'-Oxybis-1-chloropropane	A	50.00	61.26	2.322149	2.845346	0.01	22.5	20	*
2-Chloronaphthalene	A	50.00	50.60	1.14673	1.160607	0.8	1.2	20	
2-Chlorophenol	A	50.00	50.53	1.49343	1.509346	0.8	1.1	20	
4-Chlorophenyl phenyl ether	A	50.00	49.98	0.5655923	0.5653619	0.4	-0.04	20	
Chrysene	A	50.00	47.38	1.056978	1.001513	0.7	-5.2	20	
Dibenz(a,h)anthracene	A	50.00	49.96	0.927476	0.9267169	0.4	-0.08	20	
Dibenzofuran	A	50.00	50.86	1.556891	1.583802	0.8	1.7	20	
Di-n-butylphthalate	A	50.00	55.00	1.422346	1.564551	0.01	10.0	20	
2,4-Dichlorophenol	A	50.00	48.96	0.241012	0.2359937	0.2	-2.1	20	
Diethylphthalate	A	50.00	51.21	1.3631	1.396079	0.01	2.4	20	
2,4-Dimethylphenol	A	50.00	48.76	0.3519307	0.3432297	0.2	-2.5	20	
Dimethyl phthalate	A	50.00	49.19	1.312894	1.291523	0.01	-1.6	20	
4,6-Dinitro-2-methylphenol	L	50.00	50.06	0.1423453	0.1544173	0.01	0.1	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2G20205	Injection Date:	07/19/12
Lab Sample ID:	2G20205-CCV1	Injection Time:	14:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	47.10	0.189189	0.1913816	0.01	-5.8	20
2,4-Dinitrotoluene	A	50.00	51.39	0.4026331	0.4138603	0.2	2.8	20
2,6-Dinitrotoluene	A	50.00	53.31	0.3082828	0.3286979	0.2	6.6	20
Di-n-octylphthalate	L	50.00	54.65	1.691535	2.058976	0.01	9.3	20
1,2-Diphenylhydrazine	A	50.00	48.13	1.206569	1.161427	0.01	-3.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.08	0.9262458	1.001887	0.01	8.2	20
Fluoranthene	A	50.00	48.82	1.116696	1.090369	0.6	-2.4	20
Fluorene	A	50.00	54.48	1.192539	1.299407	0.9	9.0	20
Hexachlorobenzene	A	50.00	49.61	0.2086611	0.2070291	0.1	-0.8	20
Hexachlorobutadiene	A	50.00	44.62	0.1401148	0.1250283	0.01	-10.8	20
Hexachlorocyclopentadiene	A	50.00	45.03	0.3377187	0.3041765	0.05	-9.9	20
Hexachloroethane	A	50.00	48.27	0.6768699	0.6534883	0.3	-3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	49.36	1.101365	1.087267	0.5	-1.3	20
Isophorone	A	50.00	48.81	0.8641251	0.84356	0.4	-2.4	20
1-Methylnaphthalene	A	50.00	49.77	0.4880715	0.4858586	0.01	-0.5	20
2-Methylnaphthalene	A	50.00	49.57	0.5061603	0.501824	0.4	-0.9	20
2-Methylphenol	A	50.00	50.99	1.397021	1.424696	0.7	2.0	20
3-Methylphenol/4-Methylphenol	A	50.00	50.44	1.442796	1.455374		0.9	20
Naphthalene	L	50.00	50.20	1.050386	1.043689	0.7	0.4	20
4-Nitroaniline	A	50.00	52.48	0.4178622	0.4385843	0.01	5.0	20
3-Nitroaniline	A	50.00	50.48	0.4255398	0.4296185	0.01	1.0	20
2-Nitroaniline	A	50.00	53.00	0.3916404	0.4151479	0.01	6.0	20
Nitrobenzene	A	50.00	48.31	0.4425367	0.4275601	0.2	-3.4	20
4-Nitrophenol	A	50.00	54.44	0.2791278	0.3038969	0.01	8.9	20
2-Nitrophenol	A	50.00	51.84	0.1927768	0.1998539	0.1	3.7	20
N-Nitrosodiphenylamine	A	50.00	51.51	0.6161259	0.6347569	0.01	3.0	20
N-Nitroso-di-n-propylamine	A	50.00	54.33	1.158591	1.259025	0.5	8.7	20
Pentachlorophenol	L	50.00	49.80	0.1325918	0.1386397	0.05	-0.4	20
Phenanthrene	A	50.00	51.11	1.031015	1.054003	0.7	2.2	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2G20205	Injection Date:	07/19/12
Lab Sample ID:	2G20205-CCV1	Injection Time:	14:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	46.81	2.325149	2.176979	0.8	-6.4	20
Pyrene	A	50.00	51.53	1.294953	1.334591	0.6	3.1	20
2,4,6-Trichlorophenol	A	50.00	50.20	0.3586929	0.3601641	0.2	0.4	20
2,4,5-Trichlorophenol	A	50.00	51.82	0.364007	0.377291	0.2	3.6	20
2-Fluorobiphenyl	A	50.00	51.60	1.275261	1.315999	0.01	3.2	20
2-Fluorophenol	A	100.0	94.03	1.495125	1.405838	0.01	-6.0	20
Nitrobenzene-d5	A	50.00	47.42	0.4397155	0.4170729	0.01	-5.1	20
Phenol-d6	A	100.0	96.08	1.998108	1.919772	0.01	-3.9	20
Terphenyl-d14	A	50.00	50.49	0.7510018	0.7583049	0.01	1.0	20
2,4,6-Tribromophenol	A	100.0	99.69	0.1098978	0.1095536	0.01	-0.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2G20205	Injection Date:	07/19/12
Lab Sample ID:	2G20205-CCV2	Injection Time:	15:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	46.58	1.981805	1.846436	0.01	-6.8	20
Atrazine	A	50.00	51.65	0.1871073	0.1932972	0.01	3.3	20
Benzaldehyde	A	50.00	44.42	1.329702	1.181257	0.01	-11.2	20
Benzidine	A	50.00	54.68	0.8176906	0.8941629	0.01	9.4	20
1,1-Biphenyl	A	50.00	50.26	1.459667	1.467371	0.01	0.5	20
Caprolactam	A	50.00	48.58	0.1167348	0.1134276	0.01	-2.8	20
3,3'-Dichlorobenzidine	A	50.00	53.48	0.384325	0.4111124	0.01	7.0	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_055

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

Matrix: Laboratory ID: 2G11005-BLK1 File ID: G11005B1.D

Sampled: Prepared: Analyzed: 07/19/12 15:47

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	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	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G11005-BLK1 File ID: G11005B1.D

Sampled: Prepared: Analyzed: 07/19/12 15:47

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.93	87.9	50 - 110	
2-Fluorophenol	100.0	37.55	37.6	20 - 110	
Nitrobenzene-d5	50.00	40.58	81.2	40 - 110	
Phenol-d6	100.0	21.49	21.5	0 - 110	
Terphenyl-d14	50.00	50.90	102	50 - 135	
2,4,6-Tribromophenol	100.0	91.76	91.8	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_055

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

Matrix: | Laboratory ID: 2G11005-BS1 | File ID: G11005L1.D

Sampled: | Prepared: | Analyzed: 07/19/12 16:15

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2G11005 | Sequence: 2G20205 | Calibration: 2156006 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	38.50	1.25	2.50	5.00	
208-96-8	Acenaphthylene	43.26	1.25	2.50	5.00	
98-86-2	Acetophenone	43.76	1.25	2.50	5.00	
120-12-7	Anthracene	46.91	1.25	2.50	5.00	
1912-24-9	Atrazine	45.89	1.25	2.50	5.00	
100-52-7	Benzaldehyde	40.90	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	45.37	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	44.47	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	44.69	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	46.20	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	49.21	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	46.30	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	43.96	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	54.82	1.25	2.50	5.00	
105-60-2	Caprolactam	8.335	1.25	2.50	5.00	
86-74-8	Carbazole	50.22	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	88.91	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	44.05	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	41.98	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	37.09	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	47.20	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	35.80	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	82.29	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	39.61	1.25	2.50	5.00	
218-01-9	Chrysene	46.64	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	46.44	1.25	2.50	5.00	
132-64-9	Dibenzofuran	40.10	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	50.32	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	47.03	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	90.71	1.25	2.50	5.00	
84-66-2	Diethylphthalate	44.04	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	87.36	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	44.17	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	89.12	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	34.82	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	42.37	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	39.41	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	51.36	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2G11005-BS1
File ID: G11005L1.D
Sampled:
Prepared:
Analyzed: 07/19/12 16:15
Solids:
Preparation: EXT_3510
Dilution:
Batch: 2G11005
Sequence: 2G20205
Calibration: 2156006
Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	51.49	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	53.06	1.25	2.50	5.00	
206-44-0	Fluoranthene	44.30	1.25	2.50	5.00	
86-73-7	Fluorene	43.10	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	39.53	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	27.69	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	20.61	1.25	5.00	10.0	
67-72-1	Hexachloroethane	26.14	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	45.73	1.25	2.50	5.00	
78-59-1	Isophorone	39.31	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	39.01	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	33.53	1.25	2.50	5.00	
95-48-7	2-Methylphenol	67.71	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	61.45	1.25	2.50	5.00	
91-20-3	Naphthalene	37.08	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	48.72	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	45.96	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	54.41	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.08	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	31.46	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	94.06	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	39.16	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	44.13	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	90.54	5.00	10.0	20.0	
85-01-8	Phenanthrene	46.70	1.25	2.50	5.00	
108-95-2	Phenol	26.02	1.25	2.50	5.00	
129-00-0	Pyrene	49.44	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	90.11	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	95.85	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.69	91.4	50 - 110	
2-Fluorophenol	100.0	46.47	46.5	20 - 110	
Nitrobenzene-d5	50.00	43.17	86.3	40 - 110	
Phenol-d6	100.0	25.76	25.8	0 - 110	
Terphenyl-d14	50.00	51.76	104	50 - 135	
2,4,6-Tribromophenol	100.0	97.74	97.7	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G11005-MS1 File ID: 0701907M.D

Sampled: Prepared: Analyzed: 07/19/12 18:36

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	36.08	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.56	1.25	2.50	5.00	
98-86-2	Acetophenone	41.06	1.25	2.50	5.00	
120-12-7	Anthracene	39.68	1.25	2.50	5.00	
1912-24-9	Atrazine	39.65	1.25	2.50	5.00	
100-52-7	Benzaldehyde	36.59	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	41.53	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	41.13	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	45.10	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	42.03	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	40.99	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	46.13	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	38.45	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	50.85	1.25	2.50	5.00	
105-60-2	Caprolactam	6.198	1.25	2.50	5.00	Q
86-74-8	Carbazole	46.92	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	79.53	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	38.14	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	36.94	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	34.10	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	44.20	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	34.13	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	70.97	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	37.28	1.25	2.50	5.00	
218-01-9	Chrysene	41.84	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	41.10	1.25	2.50	5.00	
132-64-9	Dibenzofuran	36.49	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	44.47	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	42.20	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	78.28	1.25	2.50	5.00	
84-66-2	Diethylphthalate	42.12	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	78.43	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	41.55	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	75.81	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	33.65	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	39.60	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	37.38	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	47.08	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G11005-MS1 File ID: 0701907M.D

Sampled: Prepared: Analyzed: 07/19/12 18:36

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.25	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	48.13	1.25	2.50	5.00	
206-44-0	Fluoranthene	38.96	1.25	2.50	5.00	
86-73-7	Fluorene	40.01	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	35.27	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	23.38	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	19.14	1.25	5.00	10.0	
67-72-1	Hexachloroethane	23.61	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	42.67	1.25	2.50	5.00	
78-59-1	Isophorone	34.22	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	34.97	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	29.40	1.25	2.50	5.00	
95-48-7	2-Methylphenol	59.07	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	53.33	1.25	2.50	5.00	
91-20-3	Naphthalene	31.63	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	46.62	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	43.08	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	52.96	5.00	10.0	20.0	
98-95-3	Nitrobenzene	32.66	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	25.24	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	82.71	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	32.32	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	39.55	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	80.15	5.00	10.0	20.0	
85-01-8	Phenanthrene	40.34	1.25	2.50	5.00	
108-95-2	Phenol	22.22	1.25	2.50	5.00	
129-00-0	Pyrene	44.80	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	86.21	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	96.31	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.21	86.4	50 - 110	
2-Fluorophenol	100.0	38.78	38.8	20 - 110	
Nitrobenzene-d5	50.00	38.91	77.8	40 - 110	
Phenol-d6	100.0	21.10	21.1	0 - 110	
Terphenyl-d14	50.00	45.15	90.3	50 - 135	
2,4,6-Tribromophenol	100.0	88.28	88.3	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G11005-MSD1 File ID: 0701907S.D

Sampled: Prepared: Analyzed: 07/19/12 19:04

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	36.60	1.25	2.50	5.00	
208-96-8	Acenaphthylene	40.80	1.25	2.50	5.00	
98-86-2	Acetophenone	42.79	1.25	2.50	5.00	
120-12-7	Anthracene	41.22	1.25	2.50	5.00	
1912-24-9	Atrazine	42.77	1.25	2.50	5.00	
100-52-7	Benzaldehyde	39.45	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	42.97	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	41.59	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	41.93	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	43.12	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	46.42	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	45.44	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	39.98	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	52.18	1.25	2.50	5.00	
105-60-2	Caprolactam	7.132	1.25	2.50	5.00	Q
86-74-8	Carbazole	49.41	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	80.62	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	42.05	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	39.78	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	36.36	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	45.14	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	33.35	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	74.35	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	38.10	1.25	2.50	5.00	
218-01-9	Chrysene	43.20	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	42.33	1.25	2.50	5.00	
132-64-9	Dibenzofuran	36.53	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	46.48	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	44.59	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	83.07	1.25	2.50	5.00	
84-66-2	Diethylphthalate	42.48	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	83.07	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	42.11	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	54.42	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	15.88	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	40.26	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	39.49	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	47.79	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G11005-MSD1 File ID: 0701907S.D

Sampled: Prepared: Analyzed: 07/19/12 19:04

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G11005 Sequence: 2G20205 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	47.24	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	49.89	1.25	2.50	5.00	
206-44-0	Fluoranthene	42.69	1.25	2.50	5.00	
86-73-7	Fluorene	42.25	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	37.44	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	23.91	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	20.09	1.25	5.00	10.0	
67-72-1	Hexachloroethane	25.00	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	42.48	1.25	2.50	5.00	
78-59-1	Isophorone	35.70	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	35.46	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	31.69	1.25	2.50	5.00	
95-48-7	2-Methylphenol	61.34	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	56.14	1.25	2.50	5.00	
91-20-3	Naphthalene	33.60	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	48.26	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	44.21	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	52.15	5.00	10.0	20.0	
98-95-3	Nitrobenzene	35.02	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	17.29	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	86.72	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	34.96	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	43.27	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	67.91	5.00	10.0	20.0	
85-01-8	Phenanthrene	41.97	1.25	2.50	5.00	
108-95-2	Phenol	23.31	1.25	2.50	5.00	
129-00-0	Pyrene	46.13	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	81.98	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	90.88	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.57	89.1	50 - 110	
2-Fluorophenol	100.0	39.38	39.4	20 - 110	
Nitrobenzene-d5	50.00	42.39	84.8	40 - 110	
Phenol-d6	100.0	22.68	22.7	0 - 110	
Terphenyl-d14	50.00	49.79	99.6	50 - 135	
2,4,6-Tribromophenol	100.0	90.75	90.8	40 - 125	

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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
GW0625	07/05/12 12:10	07/06/12 08:20	07/12/12 13:16	7.00	7.00	07/19/12 16:43	7.14	40.00	
GW0626	07/05/12 11:20	07/06/12 08:20	07/12/12 13:16	7.04	7.00	07/19/12 17:11	7.16	40.00	
GW0627	07/05/12 11:44	07/06/12 08:20	07/12/12 13:16	7.02	7.00	07/19/12 17:40	7.18	40.00	
GW0628	07/05/12 09:22	07/06/12 08:20	07/12/12 13:16	7.12	7.00	07/19/12 18:08	7.20	40.00	
GW0623	07/05/12 09:23	07/06/12 08:20	07/12/12 13:16	7.12	7.00	07/19/12 19:32	7.26	40.00	
GW0624	07/06/12 08:53	07/07/12 08:05	07/12/12 13:16	6.14	7.00	07/19/12 20:00	7.28	40.00	

Data for SW8270D (PAH) Forms

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	0701907.D
Sampled:	07/05/12 09:22	Prepared:	07/12/12 13:16	Analyzed:	07/17/12 11:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G11005 Sequence: 2G20012 Calibration: 2121002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0472	0.0943	0.189	U
208-96-8	Acenaphthylene		0.0472	0.0943	0.189	U
120-12-7	Anthracene		0.0472	0.0943	0.189	U
56-55-3	Benzo(a)anthracene		0.0472	0.0943	0.189	U
50-32-8	Benzo(a)pyrene		0.0472	0.0943	0.189	U
205-99-2	Benzo(b)fluoranthene		0.0472	0.0943	0.189	U
191-24-2	Benzo(g,h,i)perylene		0.0472	0.0943	0.189	U
207-08-9	Benzo(k)fluoranthene		0.0472	0.0943	0.189	U
218-01-9	Chrysene		0.0472	0.0943	0.189	U
53-70-3	Dibenz(a,h)anthracene		0.0472	0.0943	0.189	U
206-44-0	Fluoranthene	0.0540	0.0472	0.0943	0.189	J, B
86-73-7	Fluorene		0.0472	0.0943	0.189	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0472	0.0943	0.189	U
90-12-0	1-Methylnaphthalene		0.0472	0.0943	0.189	U
91-57-6	2-Methylnaphthalene		0.0472	0.0943	0.189	U
91-20-3	Naphthalene		0.0472	0.0943	0.189	U
85-01-8	Phenanthrene	0.126	0.0943	0.189	0.377	J
129-00-0	Pyrene		0.0472	0.0943	0.189	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	38.08	80.7	34 - 167	
Terphenyl-d14	47.17	37.65	79.8	34 - 167	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20012	Instrument:	MS-BNA4
		Calibration:	2121002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20012-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/17/12 10:16		
2-Fluorobiphenyl	5.000	96.0	80 - 120	8.767	8.767	0.0000	+/-0.500	
Terphenyl-d14	5.000	93.1	80 - 120	13.317	13.317	0.0000	+/-0.500	
LCS (2G11005-BS2) ug/L				Lab File ID: G11005L1.D		Analyzed: 07/17/12 10:44		
2-Fluorobiphenyl	50.00	76.2	34 - 167	8.772	8.767	0.0050	+/-0.500	
Terphenyl-d14	50.00	81.3	34 - 167	13.324	13.317	0.0070	+/-0.500	
Blank (2G11005-BLK2) ug/L				Lab File ID: G11005B1.D		Analyzed: 07/17/12 11:13		
2-Fluorobiphenyl	50.00	80.2	34 - 167	8.772	8.767	0.0050	+/-0.500	
Terphenyl-d14	50.00	84.2	34 - 167	13.325	13.317	0.0080	+/-0.500	
GW0628 (1207019-07) ug/L				Lab File ID: 0701907.D		Analyzed: 07/17/12 11:42		
2-Fluorobiphenyl	47.17	80.7	34 - 167	8.77	8.767	0.0030	+/-0.500	
Terphenyl-d14	47.17	79.8	34 - 167	13.323	13.317	0.0060	+/-0.500	
Matrix Spike (2G11005-MS3) ug/L				Lab File ID: 0701907M.D		Analyzed: 07/17/12 14:39		
2-Fluorobiphenyl	50.00	75.7	34 - 167	8.778	8.767	0.0110	+/-0.500	
Terphenyl-d14	50.00	87.0	34 - 167	13.327	13.317	0.0100	+/-0.500	
Matrix Spike Dup (2G11005-MSD3) ug/L				Lab File ID: 0701907S.D		Analyzed: 07/17/12 15:09		
2-Fluorobiphenyl	50.00	69.5	34 - 167	8.779	8.767	0.0120	+/-0.500	
Terphenyl-d14	50.00	80.6	34 - 167	13.326	13.317	0.0090	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G11005	Laboratory ID:	2G11005-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	0.9800	0.6997	71.4	41 - 132
Acenaphthylene	0.9800	0.7420	75.7	43 - 140
Anthracene	0.9800	0.6859	70.0	50 - 139
Benzo(a)anthracene	0.9800	0.6595	67.3	58 - 141
Benzo(a)pyrene	0.9800	0.6507	66.4	31 - 142
Benzo(b)fluoranthene	0.9800	0.6945	70.9	42 - 156
Benzo(g,h,i)perylene	0.9800	0.7482	76.3	12 - 171
Benzo(k)fluoranthene	0.9800	0.7145	72.9	49 - 165
Chrysene	0.9800	0.6936	70.8	51 - 155
Dibenz(a,h)anthracene	0.9800	0.7070	72.1	28 - 153
Fluoranthene	0.9800	0.7610	77.7	47 - 158
Fluorene	0.9800	0.7185	73.3	40 - 140
Indeno(1,2,3-cd)pyrene	0.9800	0.7263	74.1	20 - 167
1-Methylnaphthalene	1.000	0.7599	76.0	35 - 131
2-Methylnaphthalene	0.9800	0.6701	68.4	36 - 121
Naphthalene	0.9800	0.6892	70.3	39 - 125
Phenanthrene	0.9800	0.7973	81.4	46 - 144
Pyrene	0.9800	0.7578	77.3	39 - 158

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	49.00	ND	33.34	68.0		41 - 132
Acenaphthylene	49.00	ND	36.82	75.1		43 - 140
Anthracene	49.00	ND	36.75	75.0		50 - 139
Benzo(a)anthracene	49.00	ND	40.91	83.5		58 - 141
Benzo(a)pyrene	49.00	ND	40.12	81.9		31 - 142
Benzo(b)fluoranthene	49.00	ND	41.79	85.3		42 - 156
Benzo(g,h,i)perylene	49.00	ND	39.37	80.3		12 - 171
Benzo(k)fluoranthene	49.00	ND	38.17	77.9		49 - 165
Chrysene	49.00	ND	40.68	83.0		51 - 155
Dibenz(a,h)anthracene	49.00	ND	41.42	84.5		28 - 153
Fluoranthene	49.00	0.05396	39.71	80.9		47 - 158
Fluorene	49.00	ND	35.14	71.7		40 - 140
Indeno(1,2,3-cd)pyrene	49.00	ND	41.19	84.1		20 - 167
1-Methylnaphthalene	50.00	ND	33.17	66.3		35 - 131
2-Methylnaphthalene	49.00	ND	29.60	60.4		36 - 121
Naphthalene	49.00	ND	30.03	61.3		39 - 125
Phenanthrene	49.00	0.1259	37.04	75.3		46 - 144
Pyrene	49.00	ND	39.53	80.7		39 - 158

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11005

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	49.00	30.03	61.3	10.5		30	41 - 132
Acenaphthylene	49.00	33.13	67.6	10.5		30	43 - 140
Anthracene	49.00	32.77	66.9	11.4		30	50 - 139
Benzo(a)anthracene	49.00	35.58	72.6	14.0		30	58 - 141
Benzo(a)pyrene	49.00	36.84	75.2	8.53		30	31 - 142
Benzo(b)fluoranthene	49.00	39.53	80.7	5.56		30	42 - 156
Benzo(g,h,i)perylene	49.00	35.24	71.9	11.1		30	12 - 171
Benzo(k)fluoranthene	49.00	36.18	73.8	5.37		30	49 - 165
Chrysene	49.00	35.28	72.0	14.2		30	51 - 155
Dibenz(a,h)anthracene	49.00	37.02	75.5	11.2		30	28 - 153
Fluoranthene	49.00	35.59	72.5	11.0		30	47 - 158
Fluorene	49.00	32.01	65.3	9.31		30	40 - 140
Indeno(1,2,3-cd)pyrene	49.00	36.19	73.9	12.9		30	20 - 167
1-Methylnaphthalene	50.00	29.99	60.0	10.1		30	35 - 131
2-Methylnaphthalene	49.00	26.48	54.0	11.1		30	36 - 121
Naphthalene	49.00	27.01	55.1	10.6		30	39 - 125
Phenanthrene	49.00	33.53	68.2	9.93		30	46 - 144
Pyrene	49.00	35.84	73.1	9.80		30	39 - 158

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G11005 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0628	1207019-07	07/12/12 13:16	1,060.00	1.00
Blank	2G11005-BLK2	07/12/12 13:16	1,000.00	1.00
LCS	2G11005-BS2	07/12/12 13:16	1,000.00	1.00
GW0628	2G11005-MS3	07/12/12 13:16	1,000.00	1.00
GW0628	2G11005-MSD3	07/12/12 13:16	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/26/12
Instrument ID:	MS-BNA4	Injection Time:	16:33
Sequence:	2D11810	Lab Sample ID:	2D11810-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	59.2	PASS
68	Less than 2% of 69	1.54	PASS
69	Less than 200% of 198	50.5	PASS
70	Less than 2% of 69	0.359	PASS
127	40 - 60% of 198	54.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.8	PASS
441	0.001 - 100% of 443	84.4	PASS
442	40 - 200% of 198	77.5	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/17/12
Instrument ID:	MS-BNA4	Injection Time:	09:58
Sequence:	2G20012	Lab Sample ID:	2G20012-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	59.9	PASS
68	Less than 2% of 69	1.8	PASS
69	Less than 200% of 198	49.9	PASS
70	Less than 2% of 69	0.448	PASS
127	40 - 60% of 198	55.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.04	PASS
275	10 - 30% of 198	24.1	PASS
365	1 - 200% of 198	2.75	PASS
441	0.001 - 100% of 443	83.4	PASS
442	40 - 200% of 198	85.4	PASS
443	17 - 23% of 442	19.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2D11810	Instrument:	MS-BNA4
Calibration:	2121002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2D11810-TUN1	SEQ-TUN1.D	04/26/12 16:33
Cal Standard	2D11810-CAL1	SEQCAL1A.D	04/26/12 16:50
Cal Standard	2D11810-CAL2	SEQCAL2B.D	04/26/12 18:15
Cal Standard	2D11810-CAL3	SEQCAL3B.D	04/26/12 19:12
Cal Standard	2D11810-CAL4	SEQCAL4A.D	04/26/12 19:41
Cal Standard	2D11810-CAL5	SEQCAL5B.D	04/26/12 21:06
Cal Standard	2D11810-CAL6	SEQCAL6B.D	04/26/12 22:03
Cal Standard	2D11810-CAL7	SEQCAL7A.D	04/26/12 22:31
Initial Cal Check	2D11810-ICV1	SEQICV1B.D	04/26/12 23:56

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20012	Instrument:	MS-BNA4
Calibration:	2121002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G20012-TUN1	SEQ-TUN1.D	07/17/12 09:58
Calibration Check	2G20012-CCV1	SEQ-CCV1.D	07/17/12 10:16
LCS	2G11005-BS2	G11005L1.D	07/17/12 10:44
Blank	2G11005-BLK2	G11005B1.D	07/17/12 11:13
GW0628	1207019-07	0701907.D	07/17/12 11:42
GW0628	2G11005-MS3	0701907M.D	07/17/12 14:39
GW0628	2G11005-MSD3	0701907S.D	07/17/12 15:09

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20012	Instrument:	MS-BNA4
		Calibration:	2121002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G20012-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/17/12 10:16			
Phenanthrene-d10	519231	11.351	406220	12.157	128	50 - 200	-0.8060	+/-0.50	
Perylene-d12	375162	16.815	330193	18.029	114	50 - 200	-1.2140	+/-0.50	
LCS (2G11005-BS2)			Lab File ID: G11005L1.D			Analyzed: 07/17/12 10:44			
Phenanthrene-d10	511800	11.349	519231	11.351	99	50 - 200	-0.0020	+/-0.50	
Perylene-d12	384919	16.814	375162	16.815	103	50 - 200	-0.0010	+/-0.50	
Blank (2G11005-BLK2)			Lab File ID: G11005B1.D			Analyzed: 07/17/12 11:13			
Phenanthrene-d10	483628	11.35	519231	11.351	93	50 - 200	-0.0010	+/-0.50	
Perylene-d12	345929	16.812	375162	16.815	92	50 - 200	-0.0030	+/-0.50	
GW0628 (1207019-07)			Lab File ID: 0701907.D			Analyzed: 07/17/12 11:42			
Phenanthrene-d10	407730	11.349	519231	11.351	79	50 - 200	-0.0020	+/-0.50	
Perylene-d12	314763	16.815	375162	16.815	84	50 - 200	0.0000	+/-0.50	
Matrix Spike (2G11005-MS3)			Lab File ID: 0701907M.D			Analyzed: 07/17/12 14:39			
Phenanthrene-d10	496101	11.363	519231	11.351	96	50 - 200	0.0120	+/-0.50	
Perylene-d12	412972	16.826	375162	16.815	110	50 - 200	0.0110	+/-0.50	
Matrix Spike Dup (2G11005-MSD3)			Lab File ID: 0701907S.D			Analyzed: 07/17/12 15:09			
Phenanthrene-d10	538657	11.359	519231	11.351	104	50 - 200	0.0080	+/-0.50	
Perylene-d12	369425	16.825	375162	16.815	98	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121002	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	4/26/12 16:50 4/26/12 22:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.8284338	0.5	0.8463376	1	0.7905859	5	0.7564354	20	0.7465952	40	0.7432093
Acenaphthylene	0.1	1.117244	0.5	1.222258	1	1.159843	5	1.17607	20	1.150843	40	1.15544
Anthracene	0.1	1.165379	0.5	1.24075	1	1.141283	5	1.151845	20	1.16271	40	1.140043
Benzo(a)anthracene	0.1	1.104547	0.5	1.15697	1	1.061402	5	1.078799	20	1.144076	40	1.141713
Benzo(a)pyrene	0.1	1.070555	0.5	1.214415	1	1.09201	5	1.142776	20	1.226464	40	1.232295
Benzo(b)fluoranthene	0.1	1.232431	0.5	1.358225	1	1.2171	5	1.191393	20	1.334496	40	1.341474
Benzo(g,h,i)perylene	0.1	0.9135112	0.5	1.069186	1	0.988096	5	0.9698328	20	0.9479826	40	0.9322904
Benzo(k)fluoranthene	0.1	1.276765	0.5	1.386285	1	1.291781	5	1.296367	20	1.372717	40	1.375273
Chrysene	0.1	1.125487	0.5	1.174129	1	1.065539	5	1.054981	20	1.077452	40	1.060916
Dibenz(a,h)anthracene	0.1	0.8080503	0.5	0.9522786	1	0.8989957	5	0.9322378	20	0.9867066	40	0.9951196
Fluoranthene	0.1	1.257669	0.5	1.332496	1	1.203956	5	1.202304	20	1.229389	40	1.212099
Fluorene	0.1	0.8624504	0.5	0.8633091	1	0.8162709	5	0.7900172	20	0.7863636	40	0.7716514
2-Fluorobiphenyl	0.1	0.8977937	0.5	0.9453296	1	0.9099752	5	0.86855	20	0.8460796	40	0.8542619
2-Fluorophenol	0.2		1		2		10		40		80	
Indeno(1,2,3-cd)pyrene	0.1	1.063307	0.5	1.212778	1	1.108405	5	1.153628	20	1.172686	40	1.178447
1-Methylnaphthalene	0.1	0.7880686	0.5	0.7956794	1	0.7450297	5	0.71151	20	0.6934976	40	0.7145846
2-Methylnaphthalene	0.1	0.7974492	0.5	0.8269049	1	0.781062	5	0.7527172	20	0.7445876	40	0.7547983
Naphthalene	0.1	1.349012	0.5	1.366405	1	1.309674	5	1.224434	20	1.182117	40	1.219288
Nitrobenzene-d5	0.1		0.5		1		5		20		40	
Phenanthrene	0.1	1.298319	0.5	1.273839	1	1.170058	5	1.125213	20	1.113786	40	1.098145
Phenol-d6	0.2		1		2		10		40		80	
Pyrene	0.1	1.349959	0.5	1.348972	1	1.234977	5	1.23447	20	1.256688	40	1.230656
Terphenyl-d14	0.1	0.7344378	0.5	0.8059511	1	0.7422243	5	0.7577963	20	0.7812106	40	0.7659497
2,4,6-Tribromophenol	0.2	9.972853E-02	1	0.1111695	2	0.1076801	10	0.115628	40	0.1238635	80	0.126312
Acenaphthene-d10	4		4		4		4		4		4	
Chrysene-d12	4		4		4		4		4		4	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121002	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	4/26/12 16:50 4/26/12 22:31

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	60	0.7049531										
Acenaphthylene	60	1.083517										
Anthracene	60	1.082868										
Benzo(a)anthracene	60	1.115142										
Benzo(a)pyrene	60	1.225554										
Benzo(b)fluoranthene	60	1.34925										
Benzo(g,h,i)perylene	60	0.9630144										
Benzo(k)fluoranthene	60	1.335859										
Chrysene	60	1.02861										
Dibenz(a,h)anthracene	60	1.011765										
Fluoranthene	60	1.172669										
Fluorene	60	0.7312367										
2-Fluorobiphenyl	60	0.8024945										
2-Fluorophenol	120											
Indeno(1,2,3-cd)pyrene	60	1.208177										
1-Methylnaphthalene	60	0.6723843										
2-Methylnaphthalene	60	0.7111022										
Naphthalene	60	1.111071										
Nitrobenzene-d5	60											
Phenanthrene	60	1.058688										
Phenol-d6	120											
Pyrene	60	1.197426										
Terphenyl-d14	60	0.7456228										
2,4,6-Tribromophenol	120	0.1254947										
Acenaphthene-d10	4											
Chrysene-d12	4											

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2121002		Instrument:	MS-BNA4	
Matrix:	Water		Calibration Dates:	4/26/12 16:50	4/26/12 22:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.7737929	6.514387	10.402	6.955727E-02			15	
Acenaphthylene	1.152174	3.797749	10.17171	5.332417E-02			15	
Anthracene	1.154983	4.052537	12.24186	0.0687624			15	
Benzo(a)anthracene	1.114664	3.19548	15.63329	5.793542E-02			15	
Benzo(a)pyrene	1.17201	5.912681	17.94071	8.222687E-02			15	
Benzo(b)fluoranthene	1.289196	5.588296	17.40443	8.023178E-02			15	
Benzo(g,h,i)perylene	0.9691305	5.211731	20.17429	0.104301			15	
Benzo(k)fluoranthene	1.333578	3.410689	17.44514	9.791606E-02			15	
Chrysene	1.083873	4.562206	15.70114	7.754657E-02			15	
Dibenz(a,h)anthracene	0.9407362	7.474966	19.77771	8.168964E-02			15	
Fluoranthene	1.230083	4.240375	13.64543	5.102833E-02			15	
Fluorene	0.8030428	5.999208	11.01857	6.557638E-02			15	
2-Fluorobiphenyl	0.8749264	5.371903	9.531143	5.659179E-02			15	
2-Fluorophenol							15	
Indeno(1,2,3-cd)pyrene	1.156775	4.680303	19.74843	8.750661E-02			15	
1-Methylnaphthalene	0.7315363	6.393879	9.175143	4.814779E-02			15	
2-Methylnaphthalene	0.7669459	4.963053	9.037286	4.132068E-02			15	
Naphthalene	1.251714	7.465959	8.157857	6.890469E-02			15	
Nitrobenzene-d5							15	
Phenanthrene	1.162578	7.819243	12.18786	5.997756E-02			15	
Phenol-d6							15	
Pyrene	1.264735	4.778785	13.92914	4.611641E-02			15	
Terphenyl-d14	0.7618847	3.282615	14.142	3.734299E-02			15	
2,4,6-Tribromophenol	0.1156966	8.751595	11.34329	6.730684E-02			15	
Acenaphthene-d10							15	
Chrysene-d12							15	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	2121002
Lab File ID:	SEQICV1B.D	Calibration Date:	04/26/12 00:00
Sequence:	2D11810	Injection Date:	04/26/12
Lab Sample ID:	2D11810-ICV1	Injection Time:	23:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.281	0.7737929	0.8173424		5.6	20
Acenaphthylene	A	5.000	5.511	1.152174	1.269907		10.2	20
Anthracene	A	5.000	5.352	1.154983	1.236255		7.0	20
Benzo(a)anthracene	A	5.000	5.376	1.114664	1.198489		7.5	20
Benzo(a)pyrene	A	5.000	5.309	1.17201	1.244442		6.2	20
Benzo(b)fluoranthene	A	5.000	5.299	1.289196	1.366261		6.0	20
Benzo(g,h,i)perylene	A	5.000	5.438	0.9691305	1.054102		8.8	20
Benzo(k)fluoranthene	A	5.000	5.381	1.333578	1.435206		7.6	20
Chrysene	A	5.000	5.573	1.083873	1.208081		11.5	20
Dibenz(a,h)anthracene	A	5.000	5.508	0.9407362	1.036267		10.2	20
Fluoranthene	A	5.000	5.233	1.230083	1.287506		4.7	20
Fluorene	A	5.000	5.327	0.8030428	0.855574		6.5	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.473	1.156775	1.2661		9.5	20
1-Methylnaphthalene	A	5.000	5.192	0.7315363	0.7596704		3.8	20
2-Methylnaphthalene	A	5.000	5.240	0.7669459	0.8037404		4.8	20
Naphthalene	A	5.000	5.952	1.251714	1.489929		19.0	20
Phenanthrene	A	5.000	5.333	1.162578	1.239933		6.7	20
Pyrene	A	5.000	5.284	1.264735	1.336503		5.7	20
2-Fluorobiphenyl	A	5.000	5.117	0.8749264	0.8954328		2.3	20
Terphenyl-d14	A	5.000	5.600	0.7618847	0.8532785		12.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	2121002
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/26/12 00:00
Sequence:	2G20012	Injection Date:	07/17/12
Lab Sample ID:	2G20012-CCV1	Injection Time:	10:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.902	0.7737929	0.758608		-2.0	20
Acenaphthylene	A	5.000	5.234	1.152174	1.206134		4.7	20
Anthracene	A	5.000	4.819	1.154983	1.113256		-3.6	20
Benzo(a)anthracene	A	5.000	4.668	1.114664	1.040733		-6.6	20
Benzo(a)pyrene	A	5.000	4.708	1.17201	1.103606		-5.8	20
Benzo(b)fluoranthene	A	5.000	4.924	1.289196	1.269655		-1.5	20
Benzo(g,h,i)perylene	A	5.000	4.064	0.9691305	0.7876491		-18.7	20
Benzo(k)fluoranthene	A	5.000	4.932	1.333578	1.315474		-1.4	20
Chrysene	A	5.000	4.578	1.083873	0.9923383		-8.4	20
Dibenz(a,h)anthracene	A	5.000	4.089	0.9407362	0.7694148		-18.2	20
Fluoranthene	A	5.000	4.849	1.230083	1.193012		-3.0	20
Fluorene	A	5.000	4.864	0.8030428	0.7811752		-2.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.115	1.156775	0.9520005		-17.7	20
1-Methylnaphthalene	A	5.000	5.025	0.7315363	0.7352196		0.5	20
2-Methylnaphthalene	A	5.000	4.955	0.7669459	0.7600579		-0.9	20
Naphthalene	A	5.000	4.848	1.251714	1.213747		-3.0	20
Phenanthrene	A	5.000	4.751	1.162578	1.104692		-5.0	20
Pyrene	A	5.000	4.810	1.264735	1.216778		-3.8	20
2-Fluorobiphenyl	A	5.000	4.799	0.8749264	0.8398281		-4.0	20
Terphenyl-d14	A	5.000	4.655	0.7618847	0.7093459		-6.9	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2G11005-BLK2
File ID: G11005B1.D
Sampled:
Prepared:
Analyzed: 07/17/12 11:13
Solids:
Preparation: EXT_3510
Dilution:
Batch: 2G11005
Sequence: 2G20012
Calibration: 2121002
Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene	0.0569	0.0500	0.100	0.200	J
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
85-01-8	Phenanthrene		0.100	0.200	0.400	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.10	80.2	34 - 167	
Terphenyl-d14	50.00	42.09	84.2	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2G11005-BS2
File ID: G11005L1.D
Sampled:
Prepared:
Analyzed: 07/17/12 10:44
Solids:
Preparation: EXT_3510
Dilution:
Batch: 2G11005
Sequence: 2G20012
Calibration: 2121002
Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.6997	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7420	0.0500	0.100	0.200	
120-12-7	Anthracene	0.6859	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.6595	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.6507	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.6945	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.7482	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.7145	0.0500	0.100	0.200	
218-01-9	Chrysene	0.6936	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.7070	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.7610	0.0500	0.100	0.200	B
86-73-7	Fluorene	0.7185	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.7263	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.7599	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.6701	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.6892	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.7973	0.100	0.200	0.400	
129-00-0	Pyrene	0.7578	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.08	76.2	34 - 167	
Terphenyl-d14	50.00	40.63	81.3	34 - 167	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G11005-MS3	File ID:	0701907M.D
Sampled:		Prepared:		Analyzed:	07/17/12 14:39
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G11005	Sequence:	2G20012	Calibration:	2121002	Instrument:	MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	33.34	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	36.82	0.0500	0.100	0.200	
120-12-7	Anthracene	36.75	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	40.91	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	40.12	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	41.79	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	39.37	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	38.17	0.0500	0.100	0.200	
218-01-9	Chrysene	40.68	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	41.42	0.0500	0.100	0.200	
206-44-0	Fluoranthene	39.71	0.0500	0.100	0.200	B
86-73-7	Fluorene	35.14	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	41.19	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	33.17	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	29.60	0.0500	0.100	0.200	
91-20-3	Naphthalene	30.03	0.0500	0.100	0.200	
85-01-8	Phenanthrene	37.04	0.100	0.200	0.400	
129-00-0	Pyrene	39.53	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	37.85	75.7	34 - 167	
Terphenyl-d14	50.00	43.49	87.0	34 - 167	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G11005-MSD3	File ID:	0701907S.D
Sampled:		Prepared:		Analyzed:	07/17/12 15:09
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2G11005 Sequence: 2G20012 Calibration: 2121002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	30.03	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	33.13	0.0500	0.100	0.200	
120-12-7	Anthracene	32.77	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	35.58	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	36.84	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	39.53	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	35.24	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	36.18	0.0500	0.100	0.200	
218-01-9	Chrysene	35.28	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	37.02	0.0500	0.100	0.200	
206-44-0	Fluoranthene	35.59	0.0500	0.100	0.200	B
86-73-7	Fluorene	32.01	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	36.19	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	29.99	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	26.48	0.0500	0.100	0.200	
91-20-3	Naphthalene	27.01	0.0500	0.100	0.200	
85-01-8	Phenanthrene	33.53	0.100	0.200	0.400	
129-00-0	Pyrene	35.84	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.73	69.5	34 - 167	
Terphenyl-d14	50.00	40.29	80.6	34 - 167	

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

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
GW0628	07/05/12 09:22	07/06/12 08:20	07/12/12 13:16	7.12	7.00	07/17/12 11:42	4.93	40.00	

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20008	Instrument:	GL-GCFID2
Calibration:	2200003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20008-CAL6	001F0101.D	07/16/12 14:47
Cal Standard	2G20008-CAL5	002F0201.D	07/16/12 15:55
Cal Standard	2G20008-CAL4	003F0301.D	07/16/12 16:29
Cal Standard	2G20008-CAL3	004F0401.D	07/16/12 17:03
Cal Standard	2G20008-CAL2	005F0501.D	07/16/12 17:37
Cal Standard	2G20008-CAL1	006F0601.D	07/16/12 18:11
Initial Cal Check	2G20008-ICV1	007F0701.D	07/16/12 18:44

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20011	Instrument:	GL-GCFID2
Calibration:	2200003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20011-CCV1	003F0301.D	07/17/12 15:48
Blank	2G12008-BLK1	004F0401.D	07/17/12 16:22
LCS	2G12008-BS1	005F0501.D	07/17/12 16:56
GW0625	1207019-01	008F0801.D	07/17/12 18:38
GW0626	1207019-03	009F0901.D	07/17/12 19:12
GW0627	1207019-05	010F1001.D	07/17/12 19:45
GW0628	1207019-07	011F1101.D	07/17/12 20:19
GW0628	2G12008-MS1	012F1201.D	07/17/12 20:52
GW0628	2G12008-MSD1	013F1301.D	07/17/12 21:26
GW0623	1207019-10	014F1401.D	07/17/12 21:59
GW0624	1207026-01	015F1501.D	07/17/12 22:32
Calibration Check	2G20011-CCV2	022F2201.D	07/18/12 02:27

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	008F0801.D
Sampled:	07/05/12 12:10	Prepared:	07/12/12 11:45	Analyzed:	07/17/12 18:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02351	118	30 - 140	

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	009F0901.D
Sampled:	07/05/12 11:20	Prepared:	07/12/12 11:45	Analyzed:	07/17/12 19:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02258	113	30 - 140	

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	010F1001.D
Sampled:	07/05/12 11:44	Prepared:	07/12/12 11:45	Analyzed:	07/17/12 19:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02339	117	30 - 140	

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	011F1101.D
Sampled:	07/05/12 09:22	Prepared:	07/12/12 11:45	Analyzed:	07/17/12 20:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02228	111	30 - 140	

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	014F1401.D
Sampled:	07/05/12 09:23	Prepared:	07/12/12 11:45	Analyzed:	07/17/12 21:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01898	94.9	30 - 140	

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	015F1501.D
Sampled:	07/06/12 08:53	Prepared:	07/12/12 11:45	Analyzed:	07/17/12 22:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02286	114	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G12008	Laboratory ID:	2G12008-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	1.125	113	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G12008

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	ND	1.221	122		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	1.080	108	12.3		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G12008 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/12/12 11:45	1,000.00	1.00
GW0626	1207019-03	07/12/12 11:45	1,000.00	1.00
GW0627	1207019-05	07/12/12 11:45	1,000.00	1.00
GW0628	1207019-07	07/12/12 11:45	1,000.00	1.00
GW0623	1207019-10	07/12/12 11:45	1,000.00	1.00
GW0624	1207026-01	07/12/12 11:45	1,000.00	1.00
Blank	2G12008-BLK1	07/12/12 11:45	1,000.00	1.00
LCS	2G12008-BS1	07/12/12 11:45	1,000.00	1.00
GW0628	2G12008-MS1	07/12/12 11:45	1,000.00	1.00
GW0628	2G12008-MSD1	07/12/12 11:45	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20008	Instrument:	GL-GCFID2
Calibration:	2200003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12F0241	DRO ICAL6@100ppm	2G20008-CAL6	001F0101.D	07/16/12 14:47
12F0242	DRO ICAL5@250ppm	2G20008-CAL5	002F0201.D	07/16/12 15:55
12F0243	DRO ICAL4@500ppm	2G20008-CAL4	003F0301.D	07/16/12 16:29
12F0211	DRO ICAL3@1000ppm	2G20008-CAL3	004F0401.D	07/16/12 17:03
12F0244	DRO ICAL2@2500ppm	2G20008-CAL2	005F0501.D	07/16/12 17:37
12F0245	DRO ICAL1@5000ppm	2G20008-CAL1	006F0601.D	07/16/12 18:11

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2200003	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	7/16/12_14:47	7/16/12_18:11

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	1451.691	2500	1225.251	1000	1167.873	500	1066.298	250	932.912	100	898.12
o-Terphenyl	250	1466.628	125	1485.512	50	1420.68	25	1410.12	12.5	1265.68	5	1222.6

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2200003	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	7/16/12 14:47	7/16/12 18:11

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1123.691	18.2564	6	0			20	
o-Terphenyl	1378.537	7.881953	11.18283	0.2933195			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2200003
Lab File ID:	007F0701.D	Calibration Date:	07/16/12 13:52
Sequence:	2G20008	Injection Date:	07/16/12
Lab Sample ID:	2G20008-ICV1	Injection Time:	18:44

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1037	1123.691	1165.272		3.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2200003
Lab File ID:	003F0301.D	Calibration Date:	07/16/12 13:52
Sequence:	2G20011	Injection Date:	07/17/12
Lab Sample ID:	2G20011-CCV1	Injection Time:	15:48

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1103	1123.691	1239.256		10.3	20
o-Terphenyl	A	50.00	55.44	1378.537	1528.6		10.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2200003
Lab File ID:	022F2201.D	Calibration Date:	07/16/12 13:52
Sequence:	2G20011	Injection Date:	07/18/12
Lab Sample ID:	2G20011-CCV2	Injection Time:	02:27

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1138	1123.691	1278.527		13.8	20
o-Terphenyl	A	50.00	54.91	1378.537	1513.84		9.8	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_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20011	Instrument:	GL-GCFID2
		Calibration:	2200003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20011-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 07/17/12 15:48		
o-Terphenyl	50.00	111	80 - 120	11.186	11.186	0.0000	+/-0.050	
Blank (2G12008-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 07/17/12 16:22		
o-Terphenyl	0.02000	116	30 - 140	11.196	11.186	0.0100	+/-0.050	
LCS (2G12008-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 07/17/12 16:56		
o-Terphenyl	0.02000	132	30 - 140	11.163	11.186	-0.0230	+/-0.050	
GW0625 (1207019-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 07/17/12 18:38		
o-Terphenyl	0.02000	118	30 - 140	11.143	11.186	-0.0430	+/-0.050	
GW0626 (1207019-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 07/17/12 19:12		
o-Terphenyl	0.02000	113	30 - 140	11.133	11.186	-0.0530	+/-0.050	*
GW0627 (1207019-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 07/17/12 19:45		
o-Terphenyl	0.02000	117	30 - 140	11.146	11.186	-0.0400	+/-0.050	
GW0628 (1207019-07) mg/L				Lab File ID: 011F1101.D		Analyzed: 07/17/12 20:19		
o-Terphenyl	0.02000	111	30 - 140	11.15	11.186	-0.0360	+/-0.050	
Matrix Spike (2G12008-MS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 07/17/12 20:52		
o-Terphenyl	0.02000	137	30 - 140	11.136	11.186	-0.0500	+/-0.050	
Matrix Spike Dup (2G12008-MSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 07/17/12 21:26		
o-Terphenyl	0.02000	124	30 - 140	11.146	11.186	-0.0400	+/-0.050	
GW0623 (1207019-10) mg/L				Lab File ID: 014F1401.D		Analyzed: 07/17/12 21:59		
o-Terphenyl	0.02000	94.9	30 - 140	11.14	11.186	-0.0460	+/-0.050	
GW0624 (1207026-01) mg/L				Lab File ID: 015F1501.D		Analyzed: 07/17/12 22:32		
o-Terphenyl	0.02000	114	30 - 140	11.15	11.186	-0.0360	+/-0.050	
Calibration Check (2G20011-CCV2) mg/L				Lab File ID: 022F2201.D		Analyzed: 07/18/12 02:27		
o-Terphenyl	50.00	110	80 - 120	11.12	11.186	-0.0660	+/-0.050	*

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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
GW0625	07/05/12 12:10	07/06/12 08:20	07/12/12 11:45	6.94	7.00	07/17/12 18:38	5.29	40.00	
GW0626	07/05/12 11:20	07/06/12 08:20	07/12/12 11:45	6.98	7.00	07/17/12 19:12	5.31	40.00	
GW0627	07/05/12 11:44	07/06/12 08:20	07/12/12 11:45	6.96	7.00	07/17/12 19:45	5.33	40.00	
GW0628	07/05/12 09:22	07/06/12 08:20	07/12/12 11:45	7.06	7.00	07/17/12 20:19	5.36	40.00	
GW0623	07/05/12 09:23	07/06/12 08:20	07/12/12 11:45	7.06	7.00	07/17/12 21:59	5.43	40.00	
GW0624	07/06/12 08:53	07/07/12 08:05	07/12/12 11:45	6.08	7.00	07/17/12 22:32	5.45	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G12008-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	07/17/12 16:22
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G12008	Sequence:	2G20011	Calibration:	2200003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02326	116	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G12008-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	07/17/12 16:56
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2G12008 Sequence: 2G20011 Calibration: 2200003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.125	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02633	132	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G12008-MS1	File ID:	012F1201.D
Sampled:		Prepared:		Analyzed:	07/17/12 20:52
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G12008	Sequence:	2G20011	Calibration:	2200003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.221	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02739	137	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G12008-MSD1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	07/17/12 21:26
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G12008	Sequence:	2G20011	Calibration:	2200003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.080	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02473	124	30 - 140	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20606	Instrument:	GL-GCVOA2
Calibration:	2206001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20606-CAL1	003F0101.D	07/19/12 16:07
Cal Standard	2G20606-CAL2	004F0201.D	07/19/12 16:48
Cal Standard	2G20606-CAL3	005F0301.D	07/19/12 17:28
Cal Standard	2G20606-CAL4	006F0401.D	07/19/12 18:08
Cal Standard	2G20606-CAL5	007F0501.D	07/19/12 18:47
Cal Standard	2G20606-CAL6	008F0601.D	07/19/12 19:25
Initial Cal Check	2G20606-ICV1	009F0701.D	07/19/12 20:04

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20607	Instrument:	GL-GCVOA2
Calibration:	2206001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20607-CCV1	009F0701.D	07/19/12 20:04
GW0625	1207019-01	010F0801.D	07/19/12 20:43
GW0626	1207019-03	011F0901.D	07/19/12 21:21
GW0627	1207019-05	012F1001.D	07/19/12 21:59
GW0628	1207019-07	013F1101.D	07/19/12 22:37
GW0623	1207019-10	014F1201.D	07/19/12 23:16
GW0628	2G24013-MS1	015F1301.D	07/19/12 23:55
GW0628	2G24013-MSD1	016F1401.D	07/20/12 00:34
LCS	2G24013-BS1	017F1501.D	07/20/12 01:13
Blank	2G24013-BLK1	018F1601.D	07/20/12 01:51
GW0624	1207026-01	019F1701.D	07/20/12 02:30
Calibration Check	2G20607-CCV2	024F2201.D	07/20/12 05:41

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	010F0801.D
Sampled:	07/05/12 12:10	Prepared:	07/19/12 11:57	Analyzed:	07/19/12 20:43
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.09199	184	50 - 150	*

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	011F0901.D
Sampled:	07/05/12 11:20	Prepared:	07/19/12 11:57	Analyzed:	07/19/12 21:21
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.08040	161	50 - 150	*

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	012F1001.D
Sampled:	07/05/12 11:44	Prepared:	07/19/12 11:57	Analyzed:	07/19/12 21:59
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.08023	160	50 - 150	*

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07	File ID:	013F1101.D
Sampled:	07/05/12 09:22	Prepared:	07/19/12 11:57	Analyzed:	07/19/12 22:37
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07554	151	50 - 150	*

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	014F1201.D
Sampled:	07/05/12 09:23	Prepared:	07/19/12 11:57	Analyzed:	07/19/12 23:16
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07919	158	50 - 150	*

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	019F1701.D
Sampled:	07/06/12 08:53	Prepared:	07/19/12 11:57	Analyzed:	07/20/12 02:30
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07430	149	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G24013	Laboratory ID:	2G24013-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	0.3968	79.4	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G24013

% Solids:

Source Sample Name: **1207019-07**

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	0.4429	88.6		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	0.4565	91.3	3.04		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G24013 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/19/12 11:57	5.00	5.00
GW0626	1207019-03	07/19/12 11:57	5.00	5.00
GW0627	1207019-05	07/19/12 11:57	5.00	5.00
GW0628	1207019-07	07/19/12 11:57	5.00	5.00
GW0623	1207019-10	07/19/12 11:57	5.00	5.00
GW0624	1207026-01	07/19/12 11:57	5.00	5.00
Blank	2G24013-BLK1	07/19/12 11:57	5.00	5.00
LCS	2G24013-BS1	07/19/12 11:57	5.00	5.00
GW0628	2G24013-MS1	07/19/12 11:57	5.00	5.00
GW0628	2G24013-MSD1	07/19/12 11:57	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20606	Instrument:	GL-GCVOA2
Calibration:	2206001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12G0574	GRO Cal 0.1ppm	2G20606-CAL1	003F0101.D	07/19/12 16:07
12G0575	GRO Cal 0.2ppm	2G20606-CAL2	004F0201.D	07/19/12 16:48
12G0576	GRO Cal 0.5ppm	2G20606-CAL3	005F0301.D	07/19/12 17:28
12G0577	GRO Cal 1.0ppm	2G20606-CAL4	006F0401.D	07/19/12 18:08
12G0578	GRO Cal 2.0ppm	2G20606-CAL5	007F0501.D	07/19/12 18:47
12G0579	GRO Cal 5.0ppm	2G20606-CAL6	008F0601.D	07/19/12 19:25

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2206001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/19/12_16:07	7/19/12_19:25

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	2257320	0.2	1569635	0.5	1114558	1	1009926	2	982730.5	5	917204
Bromofluorobenzene	0.01	726400	0.02	533150	0.05	432980	0.1	353910	0.2	419620	0.5	386442

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2206001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/19/12 16:07	7/19/12 19:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1308562	39.77425	7.797	1.504474E-02	0.9997788		0.995	
Bromofluorobenzene	475417	28.82836	20.30733	0.0466009	0.997881		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	009F0701.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20606	Injection Date:	07/19/12
Lab Sample ID:	2G20606-ICV1	Injection Time:	20:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5899	1308562	1319550		18.0	20
Bromofluorobenzene	L	0.05000	0.05274	475417	452200		5.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	009F0701.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20607	Injection Date:	07/19/12
Lab Sample ID:	2G20607-CCV1	Injection Time:	20:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5899	1308562	1319550		18.0	20
Bromofluorobenzene	L	0.05000	0.05274	475417	452200		5.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	024F2201.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20607	Injection Date:	07/20/12
Lab Sample ID:	2G20607-CCV2	Injection Time:	05:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.3319	1308562	858410		-33.6	20 *
Bromofluorobenzene	L	0.05000	0.05964	475417	505220		19.3	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20607	Instrument:	GL-GCVOA2
		Calibration:	2206001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20607-CCV1) ug/mL				Lab File ID: 009F0701.D		Analyzed: 07/19/12 20:04		
Bromofluorobenzene	0.05000	105	80 - 120	20.336	20.336	0.0000	+/-0.210	
GW0625 (1207019-01) mg/L				Lab File ID: 010F0801.D		Analyzed: 07/19/12 20:43		
Bromofluorobenzene	0.05000	184	50 - 150	20.333	20.336	-0.0030	+/-0.210	*
GW0626 (1207019-03) mg/L				Lab File ID: 011F0901.D		Analyzed: 07/19/12 21:21		
Bromofluorobenzene	0.05000	161	50 - 150	20.333	20.336	-0.0030	+/-0.210	*
GW0627 (1207019-05) mg/L				Lab File ID: 012F1001.D		Analyzed: 07/19/12 21:59		
Bromofluorobenzene	0.05000	160	50 - 150	20.336	20.336	0.0000	+/-0.210	*
GW0628 (1207019-07) mg/L				Lab File ID: 013F1101.D		Analyzed: 07/19/12 22:37		
Bromofluorobenzene	0.05000	151	50 - 150	20.333	20.336	-0.0030	+/-0.210	*
GW0623 (1207019-10) mg/L				Lab File ID: 014F1201.D		Analyzed: 07/19/12 23:16		
Bromofluorobenzene	0.05000	158	50 - 150	20.33	20.336	-0.0060	+/-0.210	*
Matrix Spike (2G24013-MS1) mg/L				Lab File ID: 015F1301.D		Analyzed: 07/19/12 23:55		
Bromofluorobenzene	0.05000	143	50 - 150	20.323	20.336	-0.0130	+/-0.210	
Matrix Spike Dup (2G24013-MSD1) mg/L				Lab File ID: 016F1401.D		Analyzed: 07/20/12 00:34		
Bromofluorobenzene	0.05000	143	50 - 150	20.323	20.336	-0.0130	+/-0.210	
LCS (2G24013-BS1) mg/L				Lab File ID: 017F1501.D		Analyzed: 07/20/12 01:13		
Bromofluorobenzene	0.05000	131	50 - 150	20.32	20.336	-0.0160	+/-0.210	
Blank (2G24013-BLK1) mg/L				Lab File ID: 018F1601.D		Analyzed: 07/20/12 01:51		
Bromofluorobenzene	0.05000	143	50 - 150	20.32	20.336	-0.0160	+/-0.210	
GW0624 (1207026-01) mg/L				Lab File ID: 019F1701.D		Analyzed: 07/20/12 02:30		
Bromofluorobenzene	0.05000	149	50 - 150	20.323	20.336	-0.0130	+/-0.210	
Calibration Check (2G20607-CCV2) ug/mL				Lab File ID: 024F2201.D		Analyzed: 07/20/12 05:41		
Bromofluorobenzene	0.05000	119	80 - 120	20.346	20.336	0.0100	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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
GW0625	07/05/12 12:10	07/06/12 08:20	07/19/12 11:57	N/A	14.00	07/19/12 20:43	14.31	14.00	
GW0626	07/05/12 11:20	07/06/12 08:20	07/19/12 11:57	N/A	14.00	07/19/12 21:21	14.38	14.00	
GW0627	07/05/12 11:44	07/06/12 08:20	07/19/12 11:57	N/A	14.00	07/19/12 21:59	14.39	14.00	
GW0628	07/05/12 09:22	07/06/12 08:20	07/19/12 11:57	N/A	14.00	07/19/12 22:37	14.51	14.00	
GW0623	07/05/12 09:23	07/06/12 08:20	07/19/12 11:57	N/A	14.00	07/19/12 23:16	14.54	14.00	
GW0624	07/06/12 08:53	07/07/12 08:05	07/19/12 11:57	N/A	14.00	07/20/12 02:30	13.69	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G24013-BLK1	File ID:	018F1601.D
Sampled:		Prepared:		Analyzed:	07/20/12 01:51
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 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	Y, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07153	143	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G24013-BS1	File ID:	017F1501.D
Sampled:		Prepared:		Analyzed:	07/20/12 01:13
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2G24013	Sequence:	2G20607	Calibration:	2206001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.3968	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06538	131	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G24013-MS1	File ID:	015F1301.D
Sampled:		Prepared:		Analyzed:	07/19/12 23:55
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2G24013	Sequence:	2G20607	Calibration:	2206001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4429	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07155	143	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G24013-MSD1	File ID:	016F1401.D
Sampled:		Prepared:		Analyzed:	07/20/12 00:34
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2G24013 Sequence: 2G20607 Calibration: 2206001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4565	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07145	143	50 - 150	

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19903	Instrument:	GL-ECD2
Calibration:	2199002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G19903-CAL1	002R0101.D	07/13/12 07:47
Cal Standard	2G19903-CAL1	002F0101.D	07/13/12 07:47
Cal Standard	2G19903-CAL2	003R0101.D	07/13/12 08:08
Cal Standard	2G19903-CAL2	003F0101.D	07/13/12 08:08
Cal Standard	2G19903-CAL3	004R0101.D	07/13/12 08:29
Cal Standard	2G19903-CAL3	004F0101.D	07/13/12 08:29
Cal Standard	2G19903-CAL4	005R0101.D	07/13/12 08:50
Cal Standard	2G19903-CAL4	005F0101.D	07/13/12 08:50
Cal Standard	2G19903-CAL5	006R0101.D	07/13/12 09:12
Cal Standard	2G19903-CAL5	006F0101.D	07/13/12 09:12
Cal Standard	2G19903-CAL6	007R0101.D	07/13/12 09:33
Cal Standard	2G19903-CAL6	007F0101.D	07/13/12 09:33
Initial Cal Check	2G19903-ICV1	008R0101.D	07/13/12 09:54
Initial Cal Check	2G19903-ICV1	008F0101.D	07/13/12 09:54

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19905	Instrument:	GL-ECD2
Calibration:	2199002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G19905-CCV1	009R0101.D	07/13/12 10:16
Calibration Check	2G19905-CCV1	009F0101.D	07/13/12 10:16
Blank	2G12018-BLK1	010R0101.D	07/13/12 10:37
Blank	2G12018-BLK1	010F0101.D	07/13/12 10:37
LCS	2G12018-BS1	011R0101.D	07/13/12 10:59
LCS	2G12018-BS1	011F0101.D	07/13/12 10:59
GW0625	1207019-01	012R0101.D	07/13/12 11:20
GW0625	1207019-01	012F0101.D	07/13/12 11:20
GW0626	1207019-03	013R0101.D	07/13/12 11:41
GW0626	1207019-03	013F0101.D	07/13/12 11:41
GW0627	1207019-05	014F0101.D	07/13/12 12:03
GW0627	1207019-05	014R0101.D	07/13/12 12:03
GW0623	1207019-10	018R0101.D	07/13/12 13:29
GW0623	1207019-10	018F0101.D	07/13/12 13:29
GW0624	1207026-01	019R0101.D	07/13/12 13:51
GW0624	1207026-01	019F0101.D	07/13/12 13:51
Calibration Check	2G19905-CCV2	024R0101.D	07/13/12 15:40
Calibration Check	2G19905-CCV2	024F0101.D	07/13/12 15:40

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20614	Instrument:	GL-ECD2
Calibration:	2206003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20614-CAL1	001R0101.D	07/19/12 12:52
Cal Standard	2G20614-CAL1	001F0101.D	07/19/12 12:52
Cal Standard	2G20614-CAL2	002R0101.D	07/19/12 13:09
Cal Standard	2G20614-CAL2	002F0101.D	07/19/12 13:09
Cal Standard	2G20614-CAL3	003R0101.D	07/19/12 13:31
Cal Standard	2G20614-CAL3	003F0101.D	07/19/12 13:31
Cal Standard	2G20614-CAL4	004R0101.D	07/19/12 13:54
Cal Standard	2G20614-CAL4	004F0101.D	07/19/12 13:54
Cal Standard	2G20614-CAL5	006R0101.D	07/19/12 14:41
Cal Standard	2G20614-CAL5	006F0101.D	07/19/12 14:41
Cal Standard	2G20614-CAL6	007R0101.D	07/19/12 15:04
Cal Standard	2G20614-CAL6	007F0101.D	07/19/12 15:04
Initial Cal Check	2G20614-ICV1	008R0101.D	07/19/12 15:28
Initial Cal Check	2G20614-ICV1	008F0101.D	07/19/12 15:28

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20701	Instrument:	GL-ECD2
Calibration:	2206003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20701-CCV1	009R0101.D	07/19/12 15:51
Calibration Check	2G20701-CCV1	009F0101.D	07/19/12 15:51
Blank	2G19930-BLK1	010R0101.D	07/19/12 16:15
Blank	2G19930-BLK1	010F0101.D	07/19/12 16:15
LCS	2G19930-BS1	011R0101.D	07/19/12 16:38
LCS	2G19930-BS1	011F0101.D	07/19/12 16:38
GW0628	1207019-07RE2	012R0101.D	07/19/12 17:01
GW0628	1207019-07RE2	012F0101.D	07/19/12 17:01
GW0628	2G19930-MS1	013R0101.D	07/19/12 17:23
GW0628	2G19930-MS1	013F0101.D	07/19/12 17:23
GW0628	2G19930-MSD1	014R0101.D	07/19/12 17:46
GW0628	2G19930-MSD1	014F0101.D	07/19/12 17:46
Calibration Check	2G20701-CCV2	026R0101.D	07/19/12 22:05
Calibration Check	2G20701-CCV2	026F0101.D	07/19/12 22:05

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01	File ID:	012F0101.D
Sampled:	07/05/12 12:10	Prepared:	07/12/12 13:42	Analyzed:	07/13/12 11:20
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G12018 Sequence: 2G19905 Calibration: 2199002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00935	0.0187	0.0281	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.870	1.615	86.4	30 - 130	
1,3-Dibromopropane [2C]	1.870	1.481	79.2	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03	File ID:	013R0101.D
Sampled:	07/05/12 11:20	Prepared:	07/12/12 13:42	Analyzed:	07/13/12 11:41
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G12018 Sequence: 2G19905 Calibration: 2199002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00940	0.0188	0.0282	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.880	1.810	96.3	30 - 130	
1,3-Dibromopropane [2C]	1.880	1.624	86.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05	File ID:	014R0101.D
Sampled:	07/05/12 11:44	Prepared:	07/12/12 13:42	Analyzed:	07/13/12 12:03
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G12018 Sequence: 2G19905 Calibration: 2199002 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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.860	1.355	72.9	30 - 130	
1,3-Dibromopropane [2C]	1.860	1.271	68.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07RE2	File ID:	012F0101.D
Sampled:	07/05/12 09:22	Prepared:	07/19/12 12:32	Analyzed:	07/19/12 17:01
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G19930 Sequence: 2G20701 Calibration: 2206003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]		0.00942	0.0188	0.0283	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.885	1.447	76.8	30 - 130	
1,3-Dibromopropane [2C]	1.885	1.466	77.8	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10	File ID:	018R0101.D
Sampled:	07/05/12 09:23	Prepared:	07/12/12 13:42	Analyzed:	07/13/12 13:29
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G12018 Sequence: 2G19905 Calibration: 2199002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00941	0.0188	0.0282	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.883	1.266	67.2	30 - 130	
1,3-Dibromopropane [2C]	1.883	1.215	64.5	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_055
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01	File ID:	019R0101.D
Sampled:	07/06/12 08:53	Prepared:	07/12/12 13:42	Analyzed:	07/13/12 13:51
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G12018 Sequence: 2G19905 Calibration: 2199002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00938	0.0188	0.0281	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.875	1.391	74.2	30 - 130	
1,3-Dibromopropane [2C]	1.875	1.313	70.0	30 - 130	

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G12018	Laboratory ID:	2G12018-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	0.4670	93.4	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4816	96.3	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G19930	Laboratory ID:	2G19930-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	0.4696	93.9	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4941	98.8	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G19930

% Solids:

Source Sample Name: **1207019-07RE2**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4723	ND	0.4211	89.2		70 - 130
1,2-Dibromoethane [2C]	0.4723	ND	0.4533	96.0		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4665	0.3816	81.8	9.83		20	70 - 130
1,2-Dibromoethane [2C]	0.4665	0.4339	93.0	4.37		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G12018 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/12/12 13:42	37.43	35.00
GW0626	1207019-03	07/12/12 13:42	37.23	35.00
GW0627	1207019-05	07/12/12 13:42	37.64	35.00
GW0623	1207019-10	07/12/12 13:42	37.18	35.00
GW0624	1207026-01	07/12/12 13:42	37.33	35.00
Blank	2G12018-BLK1	07/12/12 13:42	35.00	35.00
LCS	2G12018-BS1	07/12/12 13:42	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G19930 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0628	1207019-07RE2	07/19/12 12:32	37.14	35.00
Blank	2G19930-BLK1	07/19/12 12:32	35.00	35.00
LCS	2G19930-BS1	07/19/12 12:32	35.00	35.00
GW0628	2G19930-MS1	07/19/12 12:32	37.05	35.00
GW0628	2G19930-MSD1	07/19/12 12:32	37.51	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G12018-BLK1	File ID:	010F0101.D
Sampled:		Prepared:	07/12/12 13:42	Analyzed:	07/13/12 10:37
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G12018	Sequence:	2G19905	Calibration:	2199002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	1.941	97.0	30 - 130	
1,3-Dibromopropane [2C]	2.000	1.747	87.3	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19930-BLK1	File ID:	010R0101.D
Sampled:		Prepared:	07/19/12 12:32	Analyzed:	07/19/12 16:15
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G19930	Sequence:	2G20701	Calibration:	2206003	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	UY

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	1.748	87.4	30 - 130	
1,3-Dibromopropane [2C]	2.000	1.744	87.2	30 - 130	

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19903	Instrument:	GL-ECD2
Calibration:	2199002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12G0223	EDB ICAL 1 (0.02ppb)	2G19903-CAL1	002R0101.D	07/13/12 07:47
12G0223	EDB ICAL 1 (0.02ppb)	2G19903-CAL1	002F0101.D	07/13/12 07:47
12G0224	EDB ICAL 2 (0.05ppb)	2G19903-CAL2	003R0101.D	07/13/12 08:08
12G0224	EDB ICAL 2 (0.05ppb)	2G19903-CAL2	003F0101.D	07/13/12 08:08
12G0225	EDB ICAL 3 (0.10ppb)	2G19903-CAL3	004R0101.D	07/13/12 08:29
12G0225	EDB ICAL 3 (0.10ppb)	2G19903-CAL3	004F0101.D	07/13/12 08:29
12G0226	EDB ICAL 4 (0.20ppb)	2G19903-CAL4	005R0101.D	07/13/12 08:50
12G0226	EDB ICAL 4 (0.20ppb)	2G19903-CAL4	005F0101.D	07/13/12 08:50
12G0227	EDB ICAL 5 (0.5ppb)	2G19903-CAL5	006R0101.D	07/13/12 09:12
12G0227	EDB ICAL 5 (0.5ppb)	2G19903-CAL5	006F0101.D	07/13/12 09:12
12G0228	EDB ICAL 6 (1.0ppb)	2G19903-CAL6	007R0101.D	07/13/12 09:33
12G0228	EDB ICAL 6 (1.0ppb)	2G19903-CAL6	007F0101.D	07/13/12 09:33

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20614	Instrument:	GL-ECD2
Calibration:	2206003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12G0429	EDB ICAL 1 (0.02ppb)	2G20614-CAL1	001R0101.D	07/19/12 12:52
12G0429	EDB ICAL 1 (0.02ppb)	2G20614-CAL1	001F0101.D	07/19/12 12:52
12G0430	EDB ICAL 2 (0.05ppb)	2G20614-CAL2	002R0101.D	07/19/12 13:09
12G0430	EDB ICAL 2 (0.05ppb)	2G20614-CAL2	002F0101.D	07/19/12 13:09
12G0431	EDB ICAL 3 (0.10ppb)	2G20614-CAL3	003R0101.D	07/19/12 13:31
12G0431	EDB ICAL 3 (0.10ppb)	2G20614-CAL3	003F0101.D	07/19/12 13:31
12G0432	EDB ICAL 4 (0.20ppb)	2G20614-CAL4	004R0101.D	07/19/12 13:54
12G0432	EDB ICAL 4 (0.20ppb)	2G20614-CAL4	004F0101.D	07/19/12 13:54
12G0433	EDB ICAL 5 (0.5ppb)	2G20614-CAL5	006R0101.D	07/19/12 14:41
12G0433	EDB ICAL 5 (0.5ppb)	2G20614-CAL5	006F0101.D	07/19/12 14:41
12G0434	EDB ICAL 6 (1.0ppb)	2G20614-CAL6	007R0101.D	07/19/12 15:04
12G0434	EDB ICAL 6 (1.0ppb)	2G20614-CAL6	007F0101.D	07/19/12 15:04

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2199002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/13/12 7:47	7/13/12 9:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.02	296900	0.05	138120	0.1	86540	0.2	61545	0.5	42538	1	38088
1,2-Dibromoethane [2C]	0.02	51300	0.05	38080	0.1	31960	0.2	29260	0.5	28032	1	29006
1,2-Dibromo-3-chloropropane	0.02	211700	0.05	114980	0.1	93420	0.2	74930	0.5	57784	1	53806
1,2-Dibromo-3-chloropropane [2C]	0.02	324250	0.05	164680	0.1	106710	0.2	78850	0.5	57424	1	56028
1,3-Dibromopropane	0.1	15550	0.2	62830	0.5	76100	1	76626	2	71076.5	4	63489.75
1,3-Dibromopropane [2C]	0.1	131000	0.2	130335	0.5	120938	1	112260	2	100310	4	88619.5

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2199002	Instrument:	GL-ECD2
Matrix:	Water	Calibration Dates:	7/13/12 7:47 7/13/12 9:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	110621.8	88.8855	2.415833	0.2732234	0.9995212		0.995	
1,2-Dibromoethane [2C]	34606.33	25.87537	2.291	6.416185E-02	0.9993072		0.995	
1,2-Dibromo-3-chloropropane	101103.3	58.14936	8.5255	1.699976E-02	0.9987634		0.995	
1,2-Dibromo-3-chloropropane [2C]	131323.7	78.26795	8.716666	2.498801E-02	0.9980158		0.995	
1,3-Dibromopropane	60945.38	37.76688	5.744667	7.735669E-02		0.9999333	0.995	
1,3-Dibromopropane [2C]	113910.4	14.89058	5.660833	5.887954E-02			20	

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2206003	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/19/12 12:52	7/19/12 15:04

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.02	72550	0.05	49840	0.1	35790	0.2	27550	0.5	20928	1	18017
1,2-Dibromoethane [2C]	0.02	35100	0.05	28220	0.1	26080	0.2	25530	0.5	23548	1	22968
1,2-Dibromo-3-chloropropane	0.02	308450	0.05	163480	0.1	99270	0.2	66025	0.5	41602	1	32838
1,2-Dibromo-3-chloropropane [2C]	0.02	310850	0.05	180580	0.1	106410	0.2	70625	0.5	48800	1	42803
1,3-Dibromopropane	0.1	72610	0.2	71665	0.5	67672	1	60909	2	50541	4	43553.5
1,3-Dibromopropane [2C]	0.1	183200	0.2	151395	0.5	124072	1	113260	2	95134	4	84435

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2206003	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/19/12 12:52	7/19/12 15:04

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	37445.83	55.20828	2.0665	0.2506411		0.9994032	0.995	
1,2-Dibromoethane [2C]	26907.67	16.47238	1.952333	0.2643038	0.9997989		0.995	
1,2-Dibromo-3-chloropropane	118610.8	88.00445	7.9885	0.1130926		0.998695	0.995	
1,2-Dibromo-3-chloropropane [2C]	126678	81.6393	8.210167	9.550591E-02	0.9979294		0.995	
1,3-Dibromopropane	61158.42	19.43881	5.211667	0.2463607		0.9995169	0.995	
1,3-Dibromopropane [2C]	125249.3	29.35655	5.141667	0.1917947		0.9995832	0.995	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2199002
Lab File ID:	008F0101.D	Calibration Date:	07/13/12 07:47
Sequence:	2G19903	Injection Date:	07/13/12
Lab Sample ID:	2G19903-ICV1	Injection Time:	09:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5025	110621.8	43504		0.5	20
1,2-Dibromoethane [2C]	L	0.5000	0.4948	34606.33	28756		-1.0	20
1,3-Dibromopropane	Q	2.000	1.956	60945.38	70156		-2.2	20
1,3-Dibromopropane [2C]	A	2.000	1.746	113910.4	99452.5		-12.7	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2206003
Lab File ID:	008F0101.D	Calibration Date:	07/19/12 21:52
Sequence:	2G20614	Injection Date:	07/19/12
Lab Sample ID:	2G20614-ICV1	Injection Time:	15:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4722	37445.83	20356		-5.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.4861	26907.67	22770		-2.8	20
1,3-Dibromopropane	Q	2.000	1.872	61158.42	48943		-6.4	20
1,3-Dibromopropane [2C]	Q	2.000	1.890	125249.3	92476		-5.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2199002
Lab File ID:	009F0101.D	Calibration Date:	07/13/12 07:47
Sequence:	2G19905	Injection Date:	07/13/12
Lab Sample ID:	2G19905-CCV1	Injection Time:	10:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5056	110621.8	43708		1.1	20
1,2-Dibromoethane [2C]	L	0.5000	0.4854	34606.33	28220		-2.9	20
1,3-Dibromopropane	Q	2.000	2.060	60945.38	73413		3.0	20
1,3-Dibromopropane [2C]	A	2.000	1.816	113910.4	103437		-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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2199002
Lab File ID:	024F0101.D	Calibration Date:	07/13/12 07:47
Sequence:	2G19905	Injection Date:	07/13/12
Lab Sample ID:	2G19905-CCV2	Injection Time:	15:40

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4597	110621.8	40714		-8.1	20
1,2-Dibromoethane [2C]	L	0.5000	0.4899	34606.33	28478		-2.0	20
1,3-Dibromopropane	Q	2.000	1.996	60945.38	71409		-0.2	20
1,3-Dibromopropane [2C]	A	2.000	1.821	113910.4	103700.5		-9.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2206003
Lab File ID:	009F0101.D	Calibration Date:	07/19/12 21:52
Sequence:	2G20701	Injection Date:	07/19/12
Lab Sample ID:	2G20701-CCV1	Injection Time:	15:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4648	37445.83	20112		-7.0	20
1,2-Dibromoethane [2C]	L	0.5000	0.4790	26907.67	22446		-4.2	20
1,3-Dibromopropane	Q	2.000	1.792	61158.42	47278		-10.4	20
1,3-Dibromopropane [2C]	Q	2.000	1.808	125249.3	89167.5		-9.6	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_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2206003
Lab File ID:	026F0101.D	Calibration Date:	07/19/12 21:52
Sequence:	2G20701	Injection Date:	07/19/12
Lab Sample ID:	2G20701-CCV2	Injection Time:	22:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.3939	37445.83	17734		-21.2	20 *
1,2-Dibromoethane [2C]	L	0.5000	0.4891	26907.67	22906		-2.2	20
1,3-Dibromopropane	Q	2.000	1.629	61158.42	43815		-18.6	20
1,3-Dibromopropane [2C]	Q	2.000	1.747	125249.3	86679.5		-12.6	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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19905	Instrument:	GL-ECD2
		Calibration:	2199002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G19905-CCV1) ug/L				Lab File ID: 009F0101.D		Analyzed: 07/13/12 10:16		
1,3-Dibromopropane	2.000	103	80 - 120	5.74	5.74	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	90.8	80 - 120	5.656	5.656	0.0000	+/-0.030	
Blank (2G12018-BLK1) ug/L				Lab File ID: 010F0101.D		Analyzed: 07/13/12 10:37		
1,3-Dibromopropane	2.000	97.0	30 - 130	5.74	5.74	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	87.3	30 - 130	5.656	5.656	0.0000	+/-0.030	
LCS (2G12018-BS1) ug/L				Lab File ID: 011F0101.D		Analyzed: 07/13/12 10:59		
1,3-Dibromopropane	2.000	103	30 - 130	5.74	5.74	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	92.2	30 - 130	5.656	5.656	0.0000	+/-0.030	
GW0625 (1207019-01) ug/L				Lab File ID: 012F0101.D		Analyzed: 07/13/12 11:20		
1,3-Dibromopropane	1.870	86.4	30 - 130	5.736	5.74	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.870	79.2	30 - 130	5.656	5.656	0.0000	+/-0.030	
GW0626 (1207019-03) ug/L				Lab File ID: 013F0101.D		Analyzed: 07/13/12 11:41		
1,3-Dibromopropane	1.880	96.3	30 - 130	5.736	5.74	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.880	86.4	30 - 130	5.653	5.656	-0.0030	+/-0.030	
GW0627 (1207019-05) ug/L				Lab File ID: 014F0101.D		Analyzed: 07/13/12 12:03		
1,3-Dibromopropane	1.860	72.9	30 - 130	5.736	5.74	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.860	68.4	30 - 130	5.653	5.656	-0.0030	+/-0.030	
GW0623 (1207019-10) ug/L				Lab File ID: 018F0101.D		Analyzed: 07/13/12 13:29		
1,3-Dibromopropane	1.883	67.2	30 - 130	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.883	64.5	30 - 130	5.65	5.656	-0.0060	+/-0.030	
GW0624 (1207026-01) ug/L				Lab File ID: 019F0101.D		Analyzed: 07/13/12 13:51		
1,3-Dibromopropane	1.875	74.2	30 - 130	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.875	70.0	30 - 130	5.65	5.656	-0.0060	+/-0.030	
Calibration Check (2G19905-CCV2) ug/L				Lab File ID: 024F0101.D		Analyzed: 07/13/12 15:40		
1,3-Dibromopropane	2.000	99.8	80 - 120	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	2.000	91.0	80 - 120	5.65	5.656	-0.0060	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20701	Instrument:	GL-ECD2
		Calibration:	2206003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20701-CCV1) ug/L				Lab File ID: 009F0101.D		Analyzed: 07/19/12 15:51		
1,3-Dibromopropane	2.000	89.6	80 - 120	5.203	5.203	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	90.4	80 - 120	5.136	5.136	0.0000	+/-0.030	
Blank (2G19930-BLK1) ug/L				Lab File ID: 010F0101.D		Analyzed: 07/19/12 16:15		
1,3-Dibromopropane	2.000	87.4	30 - 130	5.2	5.203	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	2.000	87.2	30 - 130	5.133	5.136	-0.0030	+/-0.030	
LCS (2G19930-BS1) ug/L				Lab File ID: 011F0101.D		Analyzed: 07/19/12 16:38		
1,3-Dibromopropane	2.000	91.7	30 - 130	5.203	5.203	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	92.9	30 - 130	5.136	5.136	0.0000	+/-0.030	
GW0628 (1207019-07RE2) ug/L				Lab File ID: 012F0101.D		Analyzed: 07/19/12 17:01		
1,3-Dibromopropane	1.885	76.8	30 - 130	5.203	5.203	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.885	77.8	30 - 130	5.136	5.136	0.0000	+/-0.030	
Matrix Spike (2G19930-MS1) ug/L				Lab File ID: 013F0101.D		Analyzed: 07/19/12 17:23		
1,3-Dibromopropane	1.889	88.9	30 - 130	5.203	5.203	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.889	90.6	30 - 130	5.14	5.136	0.0040	+/-0.030	
Matrix Spike Dup (2G19930-MSD1) ug/L				Lab File ID: 014F0101.D		Analyzed: 07/19/12 17:46		
1,3-Dibromopropane	1.866	81.9	30 - 130	5.206	5.203	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.866	83.7	30 - 130	5.14	5.136	0.0040	+/-0.030	
Calibration Check (2G20701-CCV2) ug/L				Lab File ID: 026F0101.D		Analyzed: 07/19/12 22:05		
1,3-Dibromopropane	2.000	81.4	80 - 120	5.216	5.203	0.0130	+/-0.030	
1,3-Dibromopropane [2C]	2.000	87.4	80 - 120	5.153	5.136	0.0170	+/-0.030	

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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
GW0625	07/05/12 12:10	07/06/12 08:20	07/12/12 13:42	N/A	14.00	07/13/12 11:20	7.92	14.00	
GW0626	07/05/12 11:20	07/06/12 08:20	07/12/12 13:42	N/A	14.00	07/13/12 11:41	7.97	14.00	
GW0627	07/05/12 11:44	07/06/12 08:20	07/12/12 13:42	N/A	14.00	07/13/12 12:03	7.97	14.00	
GW0628	07/05/12 09:22	07/06/12 08:20	07/19/12 12:32	N/A	14.00	07/19/12 17:01	14.28	14.00	
GW0623	07/05/12 09:23	07/06/12 08:20	07/12/12 13:42	N/A	14.00	07/13/12 13:29	8.13	14.00	
GW0624	07/06/12 08:53	07/07/12 08:05	07/12/12 13:42	N/A	14.00	07/13/12 13:51	7.17	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G12018-BS1	File ID:	011F0101.D
Sampled:		Prepared:		Analyzed:	07/13/12 10:59
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G12018	Sequence:	2G19905	Calibration:	2199002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4670	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.070	103	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G12018-BS1	File ID:	011R0101.D
Sampled:		Prepared:		Analyzed:	07/13/12 10:59
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G12018	Sequence:	2G19905	Calibration:	2199002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4816	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	2.000	1.843	92.2	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19930-BS1	File ID:	011F0101.D
Sampled:		Prepared:		Analyzed:	07/19/12 16:38
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G19930	Sequence:	2G20701	Calibration:	2206003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4696	0.0100	0.0200	0.0300	Y

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	1.834	91.7	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19930-BS1	File ID:	011R0101.D
Sampled:		Prepared:		Analyzed:	07/19/12 16:38
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G19930	Sequence:	2G20701	Calibration:	2206003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4941	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	2.000	1.859	92.9	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19930-MS1	File ID:	013F0101.D
Sampled:		Prepared:		Analyzed:	07/19/12 17:23
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G19930	Sequence:	2G20701	Calibration:	2206003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4211	0.00945	0.0189	0.0283	Y

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.889	1.680	88.9	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G19930-MS1 File ID: 013R0101.D

Sampled: Prepared: Analyzed: 07/19/12 17:23

Solids: Preparation: EDB Dilution:

Batch: 2G19930 Sequence: 2G20701 Calibration: 2206003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4533	0.00945	0.0189	0.0283	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.889	1.711	90.6	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19930-MSD1	File ID:	014F0101.D
Sampled:		Prepared:		Analyzed:	07/19/12 17:46
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G19930	Sequence:	2G20701	Calibration:	2206003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.3816	0.00933	0.0187	0.0280	Y

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.866	1.528	81.9	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Matrix: Laboratory ID: 2G19930-MSD1 File ID: 014R0101.D

Sampled: Prepared: Analyzed: 07/19/12 17:46

Solids: Preparation: EDB Dilution:

Batch: 2G19930 Sequence: 2G20701 Calibration: 2206003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4339	0.00933	0.0187	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.866	1.562	83.7	30 - 130	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G12018-BS1 Date(s) Analyzed: 07/13/2012 07/13/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.4670	
	2	2.29	2.26	2.32	0.4816	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G19930-BS1 Date(s) Analyzed: 07/19/2012 07/19/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.07	2.04	2.10	0.4696	
	2	1.95	1.92	1.98	0.4941	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G19930-MS1 Date(s) Analyzed: 07/19/2012 07/19/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.07	2.04	2.10	0.4211	
	2	1.95	1.92	1.98	0.4533	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G19930-MSD1 Date(s) Analyzed: 07/19/2012 07/19/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.07	2.04	2.10	0.3816	
	2	1.96	1.92	1.98	0.4339	13

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01
Sampled:	07/05/12 12:10	Received:	07/06/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	48200	1000	2000	5000	1		SW6010B	2G11008	07/12/12 11:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G11008	07/12/12 11:32
7439-95-4	Magnesium	6070	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:32
7440-09-7	Potassium	2400	1000	3000	5000	1	J	SW6010B	2G11008	07/12/12 11:32
7440-23-5	Sodium	24500	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:32

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-02
Sampled:	07/05/12 12:10	Received:	07/06/12 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	2G12015	07/12/12 14:19
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G12015	07/12/12 14:19

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03
Sampled:	07/05/12 11:20	Received:	07/06/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	32300	1000	2000	5000	1		SW6010B	2G11008	07/12/12 11:37
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	2G11008	07/12/12 11:37
7439-95-4	Magnesium	7850	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:37
7440-09-7	Potassium	6630	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:37
7440-23-5	Sodium	37900	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:37

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-04
Sampled:	07/05/12 11:20	Received:	07/06/12 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	2G12015	07/12/12 14:24
7439-96-5	Manganese (dissolved)	23.5	3.00	6.00	15.0	1		SW6010B	2G12015	07/12/12 14:24

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05
Sampled:	07/05/12 11:44	Received:	07/06/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	50700	1000	2000	5000	1		SW6010B	2G11008	07/12/12 11:41
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G11008	07/12/12 11:41
7439-95-4	Magnesium	5640	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:41
7440-09-7	Potassium	3750	1000	3000	5000	1	J	SW6010B	2G11008	07/12/12 11:41
7440-23-5	Sodium	30200	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:41

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-06
Sampled:	07/05/12 11:44	Received:	07/06/12 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	2G12015	07/12/12 14:28
7439-96-5	Manganese (dissolved)	6.89	3.00	6.00	15.0	1	J	SW6010B	2G12015	07/12/12 14:28

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07
Sampled:	07/05/12 09:22	Received:	07/06/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	39800	1000	2000	5000	1		SW6010B	2G11008	07/12/12 11:46
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	2G11008	07/12/12 11:46
7439-95-4	Magnesium	7380	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:46
7440-09-7	Potassium	3760	1000	3000	5000	1	J	SW6010B	2G11008	07/12/12 11:46
7440-23-5	Sodium	23800	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:46

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-08
Sampled:	07/05/12 09:22	Received:	07/06/12 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	2G12015	07/12/12 14:33
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G12015	07/12/12 14:33

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10
Sampled:	07/05/12 09:23	Received:	07/06/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	42600	1000	2000	5000	1		SW6010B	2G11008	07/12/12 11:50
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G11008	07/12/12 11:50
7439-95-4	Magnesium	5230	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:50
7440-09-7	Potassium	2160	1000	3000	5000	1	J	SW6010B	2G11008	07/12/12 11:50
7440-23-5	Sodium	21700	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:50

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-11
Sampled:	07/05/12 09:23	Received:	07/06/12 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	2G12015	07/12/12 14:51
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G12015	07/12/12 14:51

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01
Sampled:	07/06/12 08:53	Received:	07/07/12 08:05
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	46200	1000	2000	5000	1		SW6010B	2G11008	07/12/12 11:59
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G11008	07/12/12 11:59
7439-95-4	Magnesium	5800	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:59
7440-09-7	Potassium	2270	1000	3000	5000	1	J	SW6010B	2G11008	07/12/12 11:59
7440-23-5	Sodium	23400	1000	3000	5000	1		SW6010B	2G11008	07/12/12 11:59

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-02
Sampled:	07/06/12 08:53	Received:	07/07/12 08:05
% 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	2G12015	07/12/12 14:56
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G12015	07/12/12 14:56

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_055
Project: Kirtland AFB 2011
Calibration: 2199001
Sequence: 2G19508

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G19508-ICV1	Calcium	50000	52460	105	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10780	108	ug/L	+/- 10.00%
	Lead	1000	957.3	95.7	ug/L	+/- 10.00%
	Magnesium	50000	51010	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1035	103	ug/L	+/- 10.00%
	Potassium	10000	10350	104	ug/L	+/- 10.00%
	Sodium	50000	52570	105	ug/L	+/- 10.00%
2G19508-CCV1	Calcium	50000	53300	107	ug/L	+/- 10.00%
	Lead	1000	956.1	95.6	ug/L	+/- 10.00%
	Magnesium	50000	51730	103	ug/L	+/- 10.00%
	Potassium	10000	10400	104	ug/L	+/- 10.00%
	Sodium	50000	53080	106	ug/L	+/- 10.00%
2G19508-CCV2	Calcium	50000	52880	106	ug/L	+/- 10.00%
	Lead	1000	951.4	95.1	ug/L	+/- 10.00%
	Magnesium	50000	51950	104	ug/L	+/- 10.00%
	Potassium	10000	10510	105	ug/L	+/- 10.00%
	Sodium	50000	53120	106	ug/L	+/- 10.00%
2G19508-CCV3	Calcium	50000	53010	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10760	108	ug/L	+/- 10.00%
	Lead	1000	951.0	95.1	ug/L	+/- 10.00%
	Magnesium	50000	51820	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1050	105	ug/L	+/- 10.00%
	Potassium	10000	10430	104	ug/L	+/- 10.00%
	Sodium	50000	52990	106	ug/L	+/- 10.00%
2G19508-CCV4	Iron (dissolved)	10000	10440	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1025	102	ug/L	+/- 10.00%
2G19508-CCV5	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1043	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_055
Project: Kirtland AFB 2011
Calibration: 2201002
Sequence: 2G20101

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G20101-ICV1	Calcium	50000	51490	103	ug/L	+/- 10.00%
	Lead	1000	967.7	96.8	ug/L	+/- 10.00%
	Magnesium	50000	49360	98.7	ug/L	+/- 10.00%
	Potassium	10000	9942	99.4	ug/L	+/- 10.00%
	Sodium	50000	51790	104	ug/L	+/- 10.00%
2G20101-CCV1	Calcium	50000	51530	103	ug/L	+/- 10.00%
	Lead	1000	973.4	97.3	ug/L	+/- 10.00%
	Magnesium	50000	49800	99.6	ug/L	+/- 10.00%
	Potassium	10000	9919	99.2	ug/L	+/- 10.00%
	Sodium	50000	51610	103	ug/L	+/- 10.00%
2G20101-CCV2	Calcium	50000	52630	105	ug/L	+/- 10.00%
	Lead	1000	970.8	97.1	ug/L	+/- 10.00%
	Magnesium	50000	51170	102	ug/L	+/- 10.00%
	Potassium	10000	10190	102	ug/L	+/- 10.00%
	Sodium	50000	52050	104	ug/L	+/- 10.00%
2G20101-CCV3	Calcium	50000	52140	104	ug/L	+/- 10.00%
	Lead	1000	971.7	97.2	ug/L	+/- 10.00%
	Magnesium	50000	50720	101	ug/L	+/- 10.00%
	Potassium	10000	10250	102	ug/L	+/- 10.00%
	Sodium	50000	51710	103	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2199001

Sequence: 2G19508

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G19508-CRL1	Calcium	2000	2166	108	ug/L	80 - 120
	Iron (dissolved)	60.00	67.84	113	ug/L	80 - 120
	Lead	3.000	3.004	100	ug/L	80 - 120
	Magnesium	3000	3166	106	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.486	108	ug/L	80 - 120
	Potassium	3000	3052	102	ug/L	80 - 120
	Sodium	3000	3154	105	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2201002

Sequence: 2G20101

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G20101-CRL1	Calcium	2000	2154	108	ug/L	80 - 120
	Lead	3.000	3.001	100	ug/L	80 - 120
	Magnesium	3000	3093	103	ug/L	80 - 120
	Potassium	3000	2959	98.6	ug/L	80 - 120
	Sodium	3000	3143	105	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2G19508
Calibration: 2199001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G19508-ICB1	Calcium	1.030	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.564	30.0	100	ug/L	U	SW6010B
	Lead	0.4199	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.200	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.008560	3.00	15.0	ug/L	U	SW6010B
	Potassium	3.220	1000	5000	ug/L	U	SW6010B
	Sodium	10.95	1000	5000	ug/L	U	SW6010B
2G19508-CCB1	Calcium	3.21	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.59	30.0	100	ug/L	U	SW6010B
	Lead	0.327	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.70	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0749	3.00	15.0	ug/L	U	SW6010B
	Potassium	11.3	1000	5000	ug/L	U	SW6010B
	Sodium	10.4	1000	5000	ug/L	U	SW6010B
2G11008-BLK1	Calcium	13.6	1000	5000	ug/L	U	SW6010B
	Lead	0.704	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.24	1000	5000	ug/L	U	SW6010B
	Potassium	8.35	1000	5000	ug/L	U	SW6010B
	Sodium	12.0	1000	5000	ug/L	U	SW6010B
2G19508-CCB2	Calcium	5.65	1000	5000	ug/L	U	SW6010B
	Lead	0.474	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.340	1000	5000	ug/L	U	SW6010B
	Potassium	8.72	1000	5000	ug/L	U	SW6010B
	Sodium	11.3	1000	5000	ug/L	U	SW6010B
2G19508-CCB3	Calcium	5.88	1000	5000	ug/L	U	SW6010B
	Lead	0.493	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.62	1000	5000	ug/L	U	SW6010B
	Potassium	21.1	1000	5000	ug/L	U	SW6010B
	Sodium	109	1000	5000	ug/L	U	SW6010B
2G19508-CCB4	Iron (dissolved)	0.936	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.199	3.00	15.0	ug/L	U	SW6010B
2G12015-BLK1	Iron (dissolved)	2.07	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.104	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2G19508
Calibration: 2199001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G19508-CCB5	Iron (dissolved)	0.452	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0540	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2G20101
Calibration: 2201002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G20101-ICB1	Calcium	-2.240	1000	5000	ug/L	U	SW6010B
	Lead	-0.3698	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.960	1000	5000	ug/L	U	SW6010B
	Potassium	6.020	1000	5000	ug/L	U	SW6010B
	Sodium	19.74	1000	5000	ug/L	U	SW6010B
2G20101-CCB1	Calcium	-2.73	1000	5000	ug/L	U	SW6010B
	Lead	0.465	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-3.97	1000	5000	ug/L	U	SW6010B
	Potassium	-16.4	1000	5000	ug/L	U	SW6010B
	Sodium	15.0	1000	5000	ug/L	U	SW6010B
2G20101-CCB2	Calcium	-1.52	1000	5000	ug/L	U	SW6010B
	Lead	-0.0402	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-5.54	1000	5000	ug/L	U	SW6010B
	Potassium	-0.430	1000	5000	ug/L	U	SW6010B
	Sodium	10.4	1000	5000	ug/L	U	SW6010B
2G20101-CCB3	Calcium	14.6	1000	5000	ug/L	U	SW6010B
	Lead	-0.0308	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.450	1000	5000	ug/L	U	SW6010B
	Potassium	31.4	1000	5000	ug/L	U	SW6010B
	Sodium	27.0	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2199001
Sequence: 2G19508

Lab Sample ID	Analyte	True	Found	%R	Units
2G19508-IFA1	Calcium	500000	466,400.00	93.3	ug/L
	Iron (dissolved)	200000	198,210.00	99.1	ug/L
	Lead		1.15		ug/L
	Magnesium	500000	476,640.00	95.3	ug/L
	Manganese (dissolved)		-5.14		ug/L
	Potassium		-18.64		ug/L
	Sodium		38.68		ug/L
2G19508-IFB1	Calcium	500000	501,470.00	100	ug/L
	Iron (dissolved)	200000	211,450.00	106	ug/L
	Lead	50.00	46.74	93.5	ug/L
	Magnesium	500000	511,680.00	102	ug/L
	Manganese (dissolved)	500.0	490.73	98.1	ug/L
	Potassium		-21.39		ug/L
	Sodium		39.54		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2201002
Sequence: 2G20101

Lab Sample ID	Analyte	True	Found	%R	Units
2G20101-IFA1	Calcium	500000	492,450.00	98.5	ug/L
	Lead		4.93		ug/L
	Magnesium	500000	496,870.00	99.4	ug/L
	Potassium		-10.24		ug/L
	Sodium		74.92		ug/L
2G20101-IFB1	Calcium	500000	490,640.00	98.1	ug/L
	Lead	50.00	55.61	111	ug/L
	Magnesium	500000	493,170.00	98.6	ug/L
	Potassium		0.05		ug/L
	Sodium		64.36		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G11008

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	39780	42980	64.0	4x	80 - 120
Lead	250.0	ND	233.6	93.4		80 - 120
Magnesium	5000	7385	12110	94.5		80 - 120
Potassium	5000	3756	8715	99.2		80 - 120
Sodium	5000	23790	27400	72.3	4x	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	41550	35.5	3.37	4x	20	80 - 120
Lead	250.0	232.3	92.9	0.575		20	80 - 120
Magnesium	5000	11800	88.3	2.60		20	80 - 120
Potassium	5000	8422	93.3	3.42		20	80 - 120
Sodium	5000	26590	56.0	3.01	4x	20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G12015

% Solids:

Source Sample Name: **1207019-08**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	1078	108		80 - 120
Manganese (dissolved)	500.0	ND	508.8	102		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1078	108	0.0371		20	80 - 120
Manganese (dissolved)	500.0	520.8	104	2.33		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0628

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2G11008-PS1
Batch: 2G11008
Lab Source ID: 1207019-07
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	44340	39780	5000	91.2	80 - 120
Lead	**247.1**	**ND**	**312.5**	**79.6**	**80 - 120**
Magnesium	12360	7385	5000	99.6	80 - 120
Potassium	8723	3756	5000	99.3	80 - 120
Sodium	28440	23790	5000	93.0	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G11008	Laboratory ID:	2G11008-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	5384	108	80 - 120
Lead	250.0	246.1	98.5	80 - 120
Magnesium	5000	5200	104	80 - 120
Potassium	5000	5063	101	80 - 120
Sodium	5000	5220	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G12015	Laboratory ID:	2G12015-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	1092	109	80 - 120
Manganese (dissolved)	500.0	519.6	104	80 - 120

SERIAL DILUTION

SW6010B

GW0628

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2G20101
Preparation: MET_3005A

SDG: Kirtland_055
Project: Kirtland AFB 2011
Laboratory ID: 2G11008-DUP1
Lab Source ID: 1207019-07
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	39778	40481	1.77		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	7384.7	7580	2.64		SW6010B	10.00
Potassium	3756.3	ND			SW6010B	10.00
Sodium	23788	23908	0.502		SW6010B	10.00

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_055

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_055

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
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
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
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_055

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
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	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_055

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_055

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
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	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_055

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	589.6	0.0000000				
Sodium	589.6	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_055

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 12/30/2011

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G11008 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/11/12 09:04	50.00	50.00
GW0626	1207019-03	07/11/12 09:04	50.00	50.00
GW0627	1207019-05	07/11/12 09:04	50.00	50.00
GW0628	1207019-07	07/11/12 09:04	50.00	50.00
GW0623	1207019-10	07/11/12 09:04	50.00	50.00
GW0624	1207026-01	07/11/12 09:04	50.00	50.00
Blank	2G11008-BLK1	07/11/12 09:04	50.00	50.00
LCS	2G11008-BS1	07/11/12 09:04	50.00	50.00
GW0628	2G11008-DUP1	07/11/12 09:04	50.00	50.00
GW0628	2G11008-MS1	07/11/12 09:04	50.00	50.00
GW0628	2G11008-MSD1	07/11/12 09:04	50.00	50.00
GW0628	2G11008-PS1	07/11/12 09:04	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G12015 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-02	07/12/12 10:07	50.00	50.00
GW0626	1207019-04	07/12/12 10:07	50.00	50.00
GW0627	1207019-06	07/12/12 10:07	50.00	50.00
GW0628	1207019-08	07/12/12 10:07	50.00	50.00
GW0623	1207019-11	07/12/12 10:07	50.00	50.00
GW0624	1207026-02	07/12/12 10:07	50.00	50.00
Blank	2G12015-BLK1	07/12/12 10:07	50.00	50.00
LCS	2G12015-BS1	07/12/12 10:07	50.00	50.00
GW0628	2G12015-MS1	07/12/12 10:07	50.00	50.00
GW0628	2G12015-MSD1	07/12/12 10:07	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19508	Instrument:	ME-ICP
Calibration:	2199001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G19508-CAL1	071212A-001	07/12/12 08:55
Cal Standard	2G19508-CAL1	071212A-001	07/12/12 08:55
Cal Standard	2G19508-CAL2	071212A-002	07/12/12 08:59
Cal Standard	2G19508-CAL2	071212A-002	07/12/12 08:59
Cal Standard	2G19508-CAL3	071212A-003	07/12/12 09:03
Cal Standard	2G19508-CAL3	071212A-003	07/12/12 09:03
Cal Standard	2G19508-CAL4	071212A-004	07/12/12 09:07
Cal Standard	2G19508-CAL5	071212A-005	07/12/12 09:12
Cal Standard	2G19508-CAL5	071212A-005	07/12/12 09:12
Cal Standard	2G19508-CAL6	071212A-006	07/12/12 09:17
Cal Standard	2G19508-CAL6	071212A-006	07/12/12 09:17
Cal Standard	2G19508-CAL7	071212A-007	07/12/12 09:23
Cal Standard	2G19508-CAL8	071212A-008	07/12/12 09:27
Initial Cal Check	2G19508-ICV1	071212B-001	07/12/12 09:58
Initial Cal Check	2G19508-ICV1	071212B-001	07/12/12 09:58
Initial Cal Blank	2G19508-ICB1	071212B-002	07/12/12 10:05
Initial Cal Blank	2G19508-ICB1	071212B-002	07/12/12 10:05
Instrument RL Check	2G19508-CRL1	071212B-003	07/12/12 10:10
Instrument RL Check	2G19508-CRL1	071212B-003	07/12/12 10:10
Interference Check A	2G19508-IFA1	071212B-009	07/12/12 10:44
Interference Check A	2G19508-IFA1	071212B-009	07/12/12 10:44
Interference Check B	2G19508-IFB1	071212B-010	07/12/12 10:49
Interference Check B	2G19508-IFB1	071212B-010	07/12/12 10:49
Calibration Check	2G19508-CCV1	071212B-012	07/12/12 11:00
Calibration Blank	2G19508-CCB1	071212B-013	07/12/12 11:07
Calibration Blank	2G19508-CCB1	071212B-013	07/12/12 11:07
Blank	2G11008-BLK1	071212B-014	07/12/12 11:12
LCS	2G11008-BS1	071212B-015	07/12/12 11:17
GW0625	1207019-01	071212B-018	07/12/12 11:32
GW0626	1207019-03	071212B-019	07/12/12 11:37
GW0627	1207019-05	071212B-020	07/12/12 11:41
GW0628	1207019-07	071212B-021	07/12/12 11:46

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19508	Instrument:	ME-ICP
Calibration:	2199001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0623	1207019-10	071212B-022	07/12/12 11:50
GW0624	1207026-01	071212B-024	07/12/12 11:59
Calibration Check	2G19508-CCV2	071212B-026	07/12/12 12:09
Calibration Blank	2G19508-CCB2	071212B-027	07/12/12 12:16
GW0628	2G11008-MS1	071212C-006	07/12/12 12:50
GW0628	2G11008-MSD1	071212C-007	07/12/12 12:54
Calibration Check	2G19508-CCV3	071212C-010	07/12/12 13:10
Calibration Check	2G19508-CCV3	071212C-010	07/12/12 13:10
Calibration Blank	2G19508-CCB3	071212C-011	07/12/12 13:17
Calibration Check	2G19508-CCV4	071212C-019	07/12/12 13:56
Calibration Blank	2G19508-CCB4	071212C-020	07/12/12 14:04
Blank	2G12015-BLK1	071212C-021	07/12/12 14:08
LCS	2G12015-BS1	071212C-022	07/12/12 14:13
GW0625	1207019-02	071212C-023	07/12/12 14:19
GW0626	1207019-04	071212C-024	07/12/12 14:24
GW0627	1207019-06	071212C-025	07/12/12 14:28
GW0628	1207019-08	071212C-026	07/12/12 14:33
GW0628	2G12015-MS1	071212C-027	07/12/12 14:37
GW0628	2G12015-MSD1	071212C-028	07/12/12 14:41
GW0623	1207019-11	071212C-030	07/12/12 14:51
GW0624	1207026-02	071212C-031	07/12/12 14:56
Calibration Check	2G19508-CCV5	071212C-036	07/12/12 15:19
Calibration Blank	2G19508-CCB5	071212C-037	07/12/12 15:26

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20101	Instrument:	ME-ICP
Calibration:	2201002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20101-CAL1	071812A-001	07/18/12 09:15
Cal Standard	2G20101-CAL2	071812A-002	07/18/12 09:19
Cal Standard	2G20101-CAL3	071812A-003	07/18/12 09:23
Cal Standard	2G20101-CAL5	071812A-005	07/18/12 09:32
Cal Standard	2G20101-CAL6	071812A-006	07/18/12 09:37
Cal Standard	2G20101-CAL7	071812A-007	07/18/12 09:43
Cal Standard	2G20101-CAL8	071812A-008	07/18/12 09:48
Initial Cal Check	2G20101-ICV1	071812B-001	07/18/12 10:20
Initial Cal Blank	2G20101-ICB1	071812B-002	07/18/12 10:27
Instrument RL Check	2G20101-CRL1	071812B-003	07/18/12 10:32
Interference Check A	2G20101-IFA1	071812B-006	07/18/12 10:46
Interference Check B	2G20101-IFB1	071812B-007	07/18/12 10:51
Calibration Check	2G20101-CCV1	071812B-009	07/18/12 11:02
Calibration Blank	2G20101-CCB1	071812B-010	07/18/12 11:10
Calibration Check	2G20101-CCV2	071812B-026	07/18/12 12:24
Calibration Blank	2G20101-CCB2	071812B-027	07/18/12 12:32
GW0628	2G11008-PS1	071812B-032	07/18/12 12:54
GW0628	2G11008-DUP1	071812B-033	07/18/12 13:00
Calibration Check	2G20101-CCV3	071812B-034	07/18/12 13:05
Calibration Blank	2G20101-CCB3	071812B-035	07/18/12 13:13

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2199001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/12/12 8:55 7/12/12 9:27

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	2.4178E-05	10000	2.4146E-05			500000	2.4192E-05		
Antimony	0	0	100	0.0004281	1000	5.1847E-04					10000	5.1923E-04
Arsenic	0	0	100	0.0002403	1000	0.0002697					10000	2.6552E-04
Barium	0	0	50	0.0085838	1000	0.0082169	5000	0.0084794				
Beryllium	0	0	100	0.002871	1000	0.0028484					10000	0.0028036
Boron	0	0	50	0.00002	1000	2.025E-05					5000	1.9904E-05
Cadmium	0	0	100	0.016818	1000	0.016924					10000	0.016087
Calcium	0	0	1100	6.849091E-05	50000	6.5062E-05					10000	
Chromium	0	0	100	0.0000585	1000	5.653E-05					10000	5.7809E-05
Cobalt	0	0	100	0.0051216	1000	0.0050633					10000	0.0051489
Copper	0	0	100	0.0000792	1000	7.431E-05					10000	7.3715E-05
Iron	0	0	5100	2.287451E-05	10000	2.1711E-05			500000	2.1106E-05	10000	
Lead	0	0	100	0.0012735	1000	0.001246					10000	0.0012821
Magnesium	0	0	5100		50000	1.953E-06			500000	1.99874E-06	10000	
Manganese	0	0	100	0.0003609	1000	3.4942E-04	10000	3.3646E-04			10000	
Molybdenum	0	0	100	0.0033537	1000	0.0034771					10000	0.0034505
Nickel	0	0	100	0.0027963	1000	0.0027744					10000	0.0028002
Potassium	0	0	1000	1.819E-05	10000	1.9193E-05						
Selenium	0	0	100	0.0003888	1000	3.9507E-04					10000	3.8795E-04
Silver	0	0	20	0.0000725	500	7.044E-05	2000	7.1855E-05				
Sodium	0	0	1000		50000	6.0364E-05						
Strontium	0	0	100	0.002255	1000	0.002211					10000	0.00225
Thallium	0	0	100	0.0005613	1000	5.6423E-04					10000	5.7276E-04
Tin	0	0	50	0.001228	1000	0.0012561					5000	1.27254E-03
Titanium	0	0	100	0.0002481	1000	2.4305E-04					10000	2.4694E-04
Vanadium	0	0	100	0.0000576	1000	5.641E-05					10000	5.6929E-05
Zinc	0	0	100	0.0061625	1000	0.0062568					10000	0.0061568
Aluminum	0	0	5000	2.4178E-05	10000	2.4146E-05			500000	2.4192E-05		
Antimony	0	0	100	0.0004281	1000	5.1847E-04					10000	5.1923E-04
Arsenic	0	0	100	0.0002403	1000	0.0002697					10000	2.6552E-04
Barium	0	0	50	0.0085838	1000	0.0082169	5000	0.0084794				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2199001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/12/12 8:55 7/12/12 9:27

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	0.002871	1000	0.0028484					10000	0.0028036
Boron	0	0	50	0.00002	1000	2.025E-05					5000	1.9904E-05
Cadmium	0	0	100	0.016818	1000	0.016924					10000	0.016087
Calcium	0	0	1100	6.849091E-05	50000	6.5062E-05					10000	
Chromium	0	0	100	0.0000585	1000	5.653E-05					10000	5.7809E-05
Cobalt	0	0	100	0.0051216	1000	0.0050633					10000	0.0051489
Copper	0	0	100	0.0000792	1000	7.431E-05					10000	7.3715E-05
Iron	0	0	5100	2.287451E-05	10000	2.1711E-05			500000	2.1106E-05	10000	
Lead	0	0	100	0.0012735	1000	0.001246					10000	0.0012821
Magnesium	0	0	5100		50000	1.953E-06			500000	1.99874E-06	10000	
Manganese	0	0	100	0.0003609	1000	3.4942E-04	10000	3.3646E-04			10000	
Molybdenum	0	0	100	0.0033537	1000	0.0034771					10000	0.0034505
Nickel	0	0	100	0.0027963	1000	0.0027744					10000	0.0028002
Potassium	0	0	1000	1.819E-05	10000	1.9193E-05						
Selenium	0	0	100	0.0003888	1000	3.9507E-04					10000	3.8795E-04
Silver	0	0	20	0.0000725	500	7.044E-05	2000	7.1855E-05				
Sodium	0	0	1000		50000	6.0364E-05						
Strontium	0	0	100	0.002255	1000	0.002211					10000	0.00225
Thallium	0	0	100	0.0005613	1000	5.6423E-04					10000	5.7276E-04
Tin	0	0	50	0.001228	1000	0.0012561					5000	1.27254E-03
Titanium	0	0	100	0.0002481	1000	2.4305E-04					10000	2.4694E-04
Vanadium	0	0	100	0.0000576	1000	5.641E-05					10000	5.6929E-05
Zinc	0	0	100	0.0061625	1000	0.0062568					10000	0.0061568

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2199001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/12/12 8:55 7/12/12 9:27

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	6.3576E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.0098E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.9321E-05										
Selenium												
Silver												
Sodium	100000	5.7793E-05	500000	5.774E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2199001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/12/12 8:55 7/12/12 9:27

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	6.3576E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.0098E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.9321E-05										
Selenium												
Silver												
Sodium	100000	5.7793E-05	500000	5.774E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2199001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/12/12 8:55 7/12/12 9:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.8129E-05	66.66675	4.93049	189.5014	1		0.998	
Antimony	3.6645E-04	67.68115	1.936312	130.0635	0.9999983		0.998	
Arsenic	1.9388E-04	67.00233	2.451037	171.2224	0.9999947		0.998	
Barium	6.320025E-03	66.71139	0.9854325	148.1568	0.9999572		0.998	
Beryllium	2.13075E-03	66.67962	15.16284	194.2018	0.9999977		0.998	
Boron	1.50385E-05	66.67372	3.383505	162.8745	0.9999883		0.998	
Cadmium	1.245725E-02	66.73355	9.92366	192.9216	0.9999747		0.998	
Calcium	4.928223E-05	66.79734	2.909825	168.8794	0.9999949		0.998	
Chromium	4.320975E-05	66.69341	48.56832	196.5782	0.9999948		0.998	
Cobalt	3.83345E-03	66.67317	5.72365	189.6479	0.9999972		0.998	
Copper	5.680625E-05	66.80688	1.143637	29.98081	1		0.998	
Iron	1.642288E-05	66.81626	248.031	199.5098	0.9999995		0.998	
Lead	0.0009504	66.68635	82.53422	198.8317	0.9999922		0.998	
Magnesium	1.490385E-06	66.68707	20.13384	195.2111	0.9999906		0.998	
Manganese	2.61695E-04	66.77573	1.539645	58.77619	0.9999872		0.998	
Molybdenum	2.570325E-03	66.69858	5.953877	190.5015	0.9999991		0.998	
Nickel	2.092725E-03	66.66888	27.32932	198.3724	0.9999992		0.998	
Potassium	1.4176E-05	66.76204	6.2949	171.2516	1		0.998	
Selenium	2.92955E-04	66.67548	9.166312	188.8167	0.999997		0.998	
Silver	5.369875E-05	66.68592	18.66914	188.9044	0.9999717		0.998	
Sodium	4.397425E-05	66.72481	2.544095	159.7876	0.9999789		0.998	
Strontium	0.001679	66.67696	4.06725	184.3171	0.999997		0.998	
Thallium	4.245725E-04	66.6765	3.848773	177.2197	0.9999984		0.998	
Tin	9.3916E-04	66.69542	10.59974	193.0993	0.9999938		0.998	
Titanium	1.845225E-04	66.67694	4.758443	183.5781	0.9999973		0.998	
Vanadium	4.273475E-05	66.67641	2.456363	139.9104	0.999999		0.998	
Zinc	4.644025E-03	66.67398	185.6673	199.7202	0.9999974		0.998	
Aluminum	1.8129E-05	66.66675	4.93049	189.5014	1		0.998	
Antimony	3.6645E-04	67.68115	1.936312	130.0635	0.9999983		0.998	
Arsenic	1.9388E-04	67.00233	2.451037	171.2224	0.9999947		0.998	
Barium	6.320025E-03	66.71139	0.9854325	148.1568	0.9999572		0.998	
Beryllium	2.13075E-03	66.67962	15.16284	194.2018	0.9999977		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2199001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	7/12/12 8:55	7/12/12 9:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.50385E-05	66.67372	3.383505	162.8745	0.9999883		0.998	
Cadmium	1.245725E-02	66.73355	9.92366	192.9216	0.9999747		0.998	
Calcium	4.928223E-05	66.79734	2.909825	168.8794	0.9999949		0.998	
Chromium	4.320975E-05	66.69341	48.56832	196.5782	0.9999948		0.998	
Cobalt	3.83345E-03	66.67317	5.72365	189.6479	0.9999972		0.998	
Copper	5.680625E-05	66.80688	1.143637	29.98081	1		0.998	
Iron	1.642288E-05	66.81626	248.031	199.5098	0.9999995		0.998	
Lead	0.0009504	66.68635	82.53422	198.8317	0.9999922		0.998	
Magnesium	1.490385E-06	66.68707	20.13384	195.2111	0.9999906		0.998	
Manganese	2.61695E-04	66.77573	1.539645	58.77619	0.9999872		0.998	
Molybdenum	2.570325E-03	66.69858	5.953877	190.5015	0.9999991		0.998	
Nickel	2.092725E-03	66.66888	27.32932	198.3724	0.9999992		0.998	
Potassium	1.4176E-05	66.76204	6.2949	171.2516	1		0.998	
Selenium	2.92955E-04	66.67548	9.166312	188.8167	0.999997		0.998	
Silver	5.369875E-05	66.68592	18.66914	188.9044	0.9999717		0.998	
Sodium	4.397425E-05	66.72481	2.544095	159.7876	0.9999789		0.998	
Strontium	0.001679	66.67696	4.06725	184.3171	0.999997		0.998	
Thallium	4.245725E-04	66.6765	3.848773	177.2197	0.9999984		0.998	
Tin	9.3916E-04	66.69542	10.59974	193.0993	0.9999938		0.998	
Titanium	1.845225E-04	66.67694	4.758443	183.5781	0.9999973		0.998	
Vanadium	4.273475E-05	66.67641	2.456363	139.9104	0.999999		0.998	
Zinc	4.644025E-03	66.67398	185.6673	199.7202	0.9999974		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2201002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/18/12 9:15 7/18/12 9:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.2248E-05	10000	2.1973E-05			500000	2.2024E-05		
Antimony	0	0	100	0.0005421	1000	6.0313E-04					10000	5.9786E-04
Arsenic	0	0	100	0.0003099	1000	3.3666E-04					10000	3.2987E-04
Barium	0	0	50	0.0107006	1000	0.01018	5000	0.0105152				
Beryllium	0	0	100	0.0024489	1000	0.0023641					10000	0.0023026
Boron	0	0	50	0.000017	1000	1.747E-05					5000	1.7282E-05
Cadmium	0	0	100	0.017469	1000	0.017336					10000	0.016475
Calcium	0	0	1100	6.845454E-05	50000	6.3074E-05					10000	
Chromium	0	0	100	0.0000468	1000	4.415E-05					10000	4.4197E-05
Cobalt	0	0	100	0.0049917	1000	0.0048676					10000	0.0049915
Copper	0	0	100	0.0000802	1000	7.307E-05					10000	7.3405E-05
Iron	0	0	5100	1.946667E-05	10000	1.772E-05			500000	1.71798E-05	10000	
Lead	0	0	100	0.0012374	1000	0.0011885					10000	0.0012355
Magnesium	0	0	5100		50000	1.9386E-06			500000	1.97758E-06	10000	
Manganese	0	0	100	0.0003025	1000	2.8468E-04	10000	2.7893E-04			10000	
Molybdenum	0	0	100	0.0035202	1000	0.003616					10000	0.0036076
Nickel	0	0	100	0.0031519	1000	0.0031002					10000	0.0031117
Potassium	0	0	1000	1.347E-05	10000	1.4463E-05						
Selenium	0	0	100	0.0003844	1000	3.7474E-04					10000	3.6753E-04
Silver	0	0	20	0.000057	500	0.000053	2000	5.4405E-05				
Sodium	0	0	1000		50000	5.7872E-05						
Strontium	0	0	100	0.001687	1000	0.001618					10000	0.001583
Thallium	0	0	100	0.0007588	1000	7.4073E-04					10000	7.4962E-04
Tin	0	0	50	0.0012348	1000	0.0012311					5000	1.24732E-03
Titanium	0	0	100	0.000211	1000	2.0501E-04					10000	2.0863E-04
Vanadium	0	0	100	0.0000461	1000	0.0000438					10000	4.3064E-05
Zinc	0	0	100	0.0067413	1000	0.0067479					10000	0.0066728

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2201002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/18/12 9:15 7/18/12 9:48

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	6.2328E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.9775E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.4814E-05										
Selenium												
Silver												
Sodium	100000	5.7149E-05	500000	5.5556E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_055	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2201002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	7/18/12 9:15	7/18/12 9:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.656125E-05	66.67057	7.83733	185.9907	1		0.998	
Antimony	4.357725E-04	66.9671	1.902195	136.0371	0.9999974		0.998	
Arsenic	2.441075E-04	66.82883	5.124913	176.4163	0.9999938		0.998	
Barium	7.84895E-03	66.72315	0.95995	163.648	0.9999542		0.998	
Beryllium	0.0017789	66.75187	1160.667	199.9616	0.999994		0.998	
Boron	1.2938E-05	66.68338	6.149628	179.2121	0.999995		0.998	
Cadmium	0.01282	66.75519	3.463898	182.8601	0.9999752		0.998	
Calcium	4.846414E-05	66.9041	0.8868975	114.5302	0.9999988		0.998	
Chromium	3.378675E-05	66.76733	6.429788	183.021	0.9999996		0.998	
Cobalt	0.0037127	66.68526	2.881168	179.6781	0.9999937		0.998	
Copper	5.666875E-05	66.91822	0.7333475	29.97787	0.9999985		0.998	
Iron	1.359162E-05	67.05224	8.683202	190.7236	0.9999987		0.998	
Lead	9.1535E-04	66.71244	27.81335	196.7086	0.9999852		0.998	
Magnesium	1.47342E-06	66.67831	408.8549	199.7848	0.9999959		0.998	
Manganese	2.165275E-04	66.82754	16.71725	193.9012	0.9999967		0.998	
Molybdenum	2.68595E-03	66.68617	4.254465	185.7033	0.9999998		0.998	
Nickel	2.34095E-03	66.67339	30.6965	198.2072	0.9999998		0.998	
Potassium	1.068675E-05	66.87907	3.529312	170.0158	0.9999977		0.998	
Selenium	2.816675E-04	66.7118	7.253423	184.7998	0.9999975		0.998	
Silver	4.110125E-05	66.78844	7.770023	185.3693	0.9999493		0.998	
Sodium	4.264425E-05	66.70526	6.52996	180.8523	0.9999661		0.998	
Strontium	0.001222	66.76037	5.7123	183.0054	0.9999959		0.998	
Thallium	5.622875E-04	66.67957	9.899428	191.4327	0.9999986		0.998	
Tin	9.28305E-04	66.67086	17.71539	196.7065	0.999993		0.998	
Titanium	1.5616E-04	66.68532	10.57515	196.5308	0.9999968		0.998	
Vanadium	3.3241E-05	66.78006	2.310112	142.9266	0.999998		0.998	
Zinc	0.0050405	66.67007	13.52226	195.7626	0.9999988		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0625

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-01
Sampled:	07/05/12 12:10	Received:	07/06/12 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	0.139	0.110	0.150	0.300	1	J	SM4500NH3BG	2G23002	07/23/12 13:12
18496-25-8	Sulfide	0.741	0.741	1.85	3.70	1	J	SM4500S2CF	2G12009	07/12/12 14:07
71-52-3	Alkalinity, Bicarbonate (as CACO3)	100	1.00	1.00	1.00	1		SM2320B	2G10003	07/10/12 08:03
16887-00-6	Chloride	25.3	0.170	0.330	0.500	1		E300.0	2G06007	07/06/12 21:26
NA	Nitrate/Nitrite as N	0.571	0.250	0.750	1.50	1	J	E353.2	2G10004	07/10/12 10:00
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G10003	07/10/12 08:03
14808-79-8	Sulfate as SO4	36.5	0.330	1.00	2.50	1	M	E300.0	2G06007	07/06/12 21:26

ANALYSIS DATA SHEET

GW0626

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-03
Sampled:	07/05/12 11:20	Received:	07/06/12 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	2G23002	07/23/12 13:13
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G12009	07/12/12 14:08
71-52-3	Alkalinity, Bicarbonate (as CACO3)	83.2	1.00	1.00	1.00	1		SM2320B	2G10003	07/10/12 08:15
16887-00-6	Chloride	43.6	0.170	0.330	0.500	1		E300.0	2G06007	07/06/12 21:43
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G10004	07/10/12 10:01
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G10003	07/10/12 08:15
14808-79-8	Sulfate as SO4	32.7	0.330	1.00	2.50	1	M	E300.0	2G06007	07/06/12 21:43

ANALYSIS DATA SHEET

GW0627

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-05
Sampled:	07/05/12 11:44	Received:	07/06/12 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	0.334	0.110	0.150	0.300	1		SM4500NH3BG	2G09001	07/09/12 14:26
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G12009	07/12/12 14:09
71-52-3	Alkalinity, Bicarbonate (as CACO3)	80.0	1.00	1.00	1.00	1		SM2320B	2G10003	07/10/12 08:20
16887-00-6	Chloride	53.7	0.170	0.330	0.500	1		E300.0	2G06007	07/06/12 23:45
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G10004	07/10/12 10:03
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G10003	07/10/12 08:20
14808-79-8	Sulfate as SO4	33.3	0.330	1.00	2.50	1	M	E300.0	2G06007	07/06/12 23:45

ANALYSIS DATA SHEET

GW0628

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-07
Sampled:	07/05/12 09:22	Received:	07/06/12 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	2G09001	07/09/12 14:27
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G12009	07/12/12 14:10
71-52-3	Alkalinity, Bicarbonate (as CACO3)	88.1	1.00	1.00	1.00	1		SM2320B	2G10003	07/10/12 08:25
16887-00-6	Chloride	30.5	0.170	0.330	0.500	1		E300.0	2G06007	07/06/12 22:00
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G10004	07/10/12 10:04
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G10003	07/10/12 08:25
14808-79-8	Sulfate as SO4	25.4	0.330	1.00	2.50	1	M	E300.0	2G06007	07/06/12 22:00

ANALYSIS DATA SHEET

GW0623

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207019-10
Sampled:	07/05/12 09:23	Received:	07/06/12 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	2G09001	07/09/12 14:30
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G12009	07/12/12 14:13
71-52-3	Alkalinity, Bicarbonate (as CACO3)	104	1.00	1.00	1.00	1		SM2320B	2G10003	07/10/12 08:37
16887-00-6	Chloride	18.5	0.170	0.330	0.500	1		E300.0	2G06007	07/07/12 00:02
NA	Nitrate/Nitrite as N	1.02	0.250	0.750	1.50	1	J	E353.2	2G10004	07/10/12 10:08
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G10003	07/10/12 08:37
14808-79-8	Sulfate as SO4	27.6	0.330	1.00	2.50	1	M	E300.0	2G06007	07/07/12 00:02

ANALYSIS DATA SHEET

GW0624

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207026-01
Sampled:	07/06/12 08:53	Received:	07/07/12 08:05
% 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	2G23002	07/23/12 13:14
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G12009	07/12/12 14:19
71-52-3	Alkalinity, Bicarbonate (as CACO3)	103	1.00	1.00	1.00	1		SM2320B	2G10003	07/10/12 09:16
16887-00-6	Chloride	25.3	0.170	0.330	0.500	1		E300.0	2G09015	07/09/12 20:15
NA	Nitrate/Nitrite as N	0.520	0.250	0.750	1.50	1	J	E353.2	2G10004	07/10/12 10:10
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G10003	07/10/12 09:16
14808-79-8	Sulfate as SO4	36.3	0.330	1.00	2.50	1	M	E300.0	2G09015	07/09/12 20:15

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_055
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2E13609

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2E13609-ICV1	Chloride	4.800	4.613	96.1	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.62	98.4	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_055
Project: Kirtland AFB 2011
Calibration: 2191004
Sequence: 2G19109

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G19109-ICV1	Ammonia as N	2.000	2.073	104	mg/L	+/- 10.00%
2G19109-CCV1	Ammonia as N	2.000	2.099	105	mg/L	+/- 10.00%
2G19109-CCV2	Ammonia as N	2.000	2.139	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_055
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2G19111

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G19111-CCV1	Chloride	25.00	23.70	94.8	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.06	96.3	mg/L	+/- 10.00%
2G19111-CCV2	Chloride	25.00	25.33	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.77	103	mg/L	+/- 10.00%
2G19111-CCV3	Chloride	25.00	25.26	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.43	102	mg/L	+/- 10.00%
2G19111-CCV4	Chloride	25.00	25.40	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.79	103	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_055
Project: Kirtland AFB 2011
Calibration: 2192001
Sequence: 2G19204

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G19204-ICV1	Nitrate/Nitrite as N	1.200	1.246	104	mg/L	+/- 10.00%
2G19204-CCV1	Nitrate/Nitrite as N	1.200	1.233	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_055
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2G20111

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G20111-CCV1	Chloride	25.00	25.42	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.85	103	mg/L	+/- 10.00%
2G20111-CCV2	Chloride	25.00	25.55	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.82	103	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_055
Project: Kirtland AFB 2011
Calibration: 2205003
Sequence: 2G20510

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G20510-ICV1	Ammonia as N	2.000	2.054	103	mg/L	+/- 10.00%
2G20510-CCV1	Ammonia as N	2.000	1.999	100	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2G19111

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G19111-CRL1	Chloride	0.5000	0.5360	107	mg/L	75 - 125
2G19111-CRL3	Sulfate as SO4	2.500	1.912	76.5	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2G20111

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G20111-CRL1	Chloride	0.5000	0.5110	102	mg/L	75 - 125
2G20111-CRL3	Sulfate as SO4	2.500	2.068	82.7	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G06007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G06007-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_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G09001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G09001-BLK1	Ammonia as N	0.0586	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G09015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G09015-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_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G10003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G10003-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G10004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G10004-BLK1	Nitrate/Nitrite as N	-0.0261	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G12009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G12009-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G23002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G23002-BLK1	Ammonia as N	0.0346	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2E13609
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2E13609-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G19109
Calibration: 2191004
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G19109-ICB1	Ammonia as N	-0.02319	0.110	0.300	mg/L	U	SM4500NH3BG
2G19109-CCB1	Ammonia as N	-0.0345	0.110	0.300	mg/L	U	SM4500NH3BG
2G19109-CCB2	Ammonia as N	0.0298	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G19111
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G19111-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
2G19111-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
2G19111-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
2G19111-CCB4	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_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G19204
Calibration: 2192001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G19204-ICB1	Nitrate/Nitrite as N	-0.04505	0.0500	0.300	mg/L	U	E353.2
2G19204-CCB1	Nitrate/Nitrite as N	-0.0463	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G20111
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G20111-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
2G20111-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_055
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G20510
Calibration: 2205003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G20510-ICB1	Ammonia as N	0.001286	0.110	0.300	mg/L	U	SM4500NH3BG
2G20510-CCB1	Ammonia as N	-0.00191	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G06007

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	30.53	58.34	100		80 - 120
Sulfate as SO4	27.78	25.36	54.28	104		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	58.34	100	0.0114		20	80 - 120
Sulfate as SO4	27.78	54.03	103	0.472		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G09001

% Solids:

Source Sample Name: **1207019-07**

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	5.273	105		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.884	97.7	7.66		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G10003

% Solids:

Source Sample Name: **1207019-07**

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	88.10	201.2	102		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Alkalinity, Total (as CACO3)	111.1	199.4	100	0.901		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G10004

% Solids:

Source Sample Name: **1207019-07**

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	2.719	109		90 - 110

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.656	106	2.33		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0628

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G12009

% Solids:

Source Sample Name: **1207019-07**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1300	ND	1368	105		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1300	1350	104	1.32		20	75 - 125

GW0628

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2G06007
Preparation: pNone
Source Sample Name: GW0628

SDG: Kirtland_055
Project: Kirtland AFB 2011
Laboratory ID: 2G06007-DUP2
Lab Source ID: 1207019-07
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	30.5	30.82	0.971		E300.0
Sulfate as SO4	20	25.4	25.40	0.146		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G06007	Laboratory ID:	2G06007-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.671	97.3	90 - 110
Sulfate as SO4	24.00	23.85	99.4	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G09001	Laboratory ID:	2G09001-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	5.194	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G09015	Laboratory ID:	2G09015-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.768	99.3	90 - 110
Sulfate as SO4	24.00	24.28	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G10003	Laboratory ID:	2G10003-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	1041	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G10004	Laboratory ID:	2G10004-BS1
Preparation:	pNone	Initial/Final:	20 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	1.690	1.657	98.0	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G12009	Laboratory ID:	2G12009-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1300	1283	98.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23002	Laboratory ID:	2G23002-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	5.079	102	80 - 120

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G06007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/06/12 12:14	5.00	5.00
GW0626	1207019-03	07/06/12 12:14	5.00	5.00
GW0627	1207019-05	07/06/12 12:14	5.00	5.00
GW0628	1207019-07	07/06/12 12:14	5.00	5.00
GW0623	1207019-10	07/06/12 12:14	5.00	5.00
Blank	2G06007-BLK1	07/06/12 12:14	5.00	5.00
LCS	2G06007-BS1	07/06/12 12:14	5.00	5.00
GW0628	2G06007-DUP2	07/06/12 12:14	5.00	5.00
GW0628	2G06007-MS2	07/06/12 12:14	22.50	25.00
GW0628	2G06007-MSD2	07/06/12 12:14	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G09001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0627	1207019-05	07/09/12 06:01	100.00	100.00
GW0628	1207019-07	07/09/12 06:01	100.00	100.00
GW0623	1207019-10	07/09/12 06:01	100.00	100.00
Blank	2G09001-BLK1	07/09/12 06:01	100.00	100.00
LCS	2G09001-BS1	07/09/12 06:01	100.00	100.00
GW0628	2G09001-MS1	07/09/12 06:01	100.00	100.00
GW0628	2G09001-MSD1	07/09/12 06:01	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G09015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0624	1207026-01	07/09/12 13:56	5.00	5.00
Blank	2G09015-BLK1	07/09/12 13:56	5.00	5.00
LCS	2G09015-BS1	07/09/12 13:56	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G10003 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/10/12 06:46	25.00	25.00
GW0626	1207019-03	07/10/12 06:46	25.00	25.00
GW0627	1207019-05	07/10/12 06:46	25.00	25.00
GW0628	1207019-07	07/10/12 06:46	25.00	25.00
GW0623	1207019-10	07/10/12 06:46	25.00	25.00
GW0624	1207026-01	07/10/12 06:46	25.00	25.00
Blank	2G10003-BLK1	07/10/12 06:46	25.00	25.00
LCS	2G10003-BS1	07/10/12 06:46	5.00	25.00
GW0628	2G10003-MS1	07/10/12 06:46	22.50	25.00
GW0628	2G10003-MSD1	07/10/12 06:46	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G10004 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/10/12 08:14	4.00	20.00
GW0626	1207019-03	07/10/12 08:14	4.00	20.00
GW0627	1207019-05	07/10/12 08:14	4.00	20.00
GW0628	1207019-07	07/10/12 08:14	4.00	20.00
GW0623	1207019-10	07/10/12 08:14	4.00	20.00
GW0624	1207026-01	07/10/12 08:14	4.00	20.00
Blank	2G10004-BLK1	07/10/12 08:14	20.00	20.00
LCS	2G10004-BS1	07/10/12 08:14	20.00	20.00
GW0628	2G10004-MS1	07/10/12 08:14	4.00	20.00
GW0628	2G10004-MSD1	07/10/12 08:14	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G12009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/12/12 09:20	270.00	200.00
GW0626	1207019-03	07/12/12 09:20	270.00	200.00
GW0627	1207019-05	07/12/12 09:20	270.00	200.00
GW0628	1207019-07	07/12/12 09:20	270.00	200.00
GW0623	1207019-10	07/12/12 09:20	270.00	200.00
GW0624	1207026-01	07/12/12 09:20	270.00	200.00
Blank	2G12009-BLK1	07/12/12 09:20	250.00	200.00
LCS	2G12009-BS1	07/12/12 09:20	3.00	250.00
GW0628	2G12009-MS1	07/12/12 09:20	3.00	270.00
GW0628	2G12009-MSD1	07/12/12 09:20	3.00	270.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_055

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

Batch: 2G23002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0625	1207019-01	07/23/12 06:21	100.00	100.00
GW0626	1207019-03	07/23/12 06:21	100.00	100.00
GW0624	1207026-01	07/23/12 06:21	100.00	100.00
Blank	2G23002-BLK1	07/23/12 06:21	100.00	100.00
LCS	2G23002-BS1	07/23/12 06:21	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2G10003-BS1	071012-002	07/10/12 07:21
Blank	2G10003-BLK1	071012-003	07/10/12 07:29
GW0628	2G10003-MS1	071012-004	07/10/12 07:37
GW0628	2G10003-MSD1	071012-005	07/10/12 07:44

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_055

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2G12009-BS1	071212-001	07/12/12 14:05
Blank	2G12009-BLK1	071212-002	07/12/12 14:06
GW0628	2G12009-MS1	071212-007	07/12/12 14:11
GW0628	2G12009-MSD1	071212-008	07/12/12 14:12

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2E13609	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2E13609-CAL1	051412-010	05/14/12 18:29
Cal Standard	2E13609-CAL2	051412-011	05/14/12 18:46
Cal Standard	2E13609-CAL3	051412-012	05/14/12 19:04
Cal Standard	2E13609-CAL4	051412-013	05/14/12 19:21
Cal Standard	2E13609-CAL5	051412-014	05/14/12 19:38
Cal Standard	2E13609-CAL6	051412-015	05/14/12 19:56
Cal Standard	2E13609-CAL7	051412-016	05/14/12 20:13
Cal Standard	2E13609-CAL8	051412-017	05/14/12 20:31
Initial Cal Check	2E13609-ICV1	051412-018	05/14/12 20:48
Initial Cal Blank	2E13609-ICB1	051412-019	05/14/12 21:06

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19109	Instrument:	WC-Lachat
Calibration:	2191004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G19109-CAL1	)M_7-9-2012_01-58-14PM-00	07/09/12 13:59
Cal Standard	2G19109-CAL2	)M_7-9-2012_01-58-14PM-00	07/09/12 14:00
Cal Standard	2G19109-CAL3	)M_7-9-2012_01-58-14PM-00	07/09/12 14:01
Cal Standard	2G19109-CAL4	)M_7-9-2012_01-58-14PM-00	07/09/12 14:02
Cal Standard	2G19109-CAL5	)M_7-9-2012_01-58-14PM-00	07/09/12 14:03
Cal Standard	2G19109-CAL6	)M_7-9-2012_01-58-14PM-00	07/09/12 14:04
Cal Standard	2G19109-CAL7	)M_7-9-2012_01-58-14PM-00	07/09/12 14:05
Cal Standard	2G19109-CAL8	)M_7-9-2012_01-58-14PM-00	07/09/12 14:06
Initial Cal Check	2G19109-ICV1	)M_7-9-2012_01-58-14PM-00	07/09/12 14:07
Initial Cal Blank	2G19109-ICB1	)M_7-9-2012_01-58-14PM-01	07/09/12 14:08
Blank	2G09001-BLK1	)M_7-9-2012_01-58-14PM-01	07/09/12 14:09
LCS	2G09001-BS1	)M_7-9-2012_01-58-14PM-01	07/09/12 14:10
Calibration Check	2G19109-CCV1	)M_7-9-2012_01-58-14PM-02	07/09/12 14:20
Calibration Blank	2G19109-CCB1	)M_7-9-2012_01-58-14PM-02	07/09/12 14:21
GW0627	1207019-05	)M_7-9-2012_01-58-14PM-02	07/09/12 14:26
GW0628	1207019-07	)M_7-9-2012_01-58-14PM-03	07/09/12 14:27
GW0628	2G09001-MS1	)M_7-9-2012_01-58-14PM-03	07/09/12 14:28
GW0628	2G09001-MSD1	)M_7-9-2012_01-58-14PM-03	07/09/12 14:29
GW0623	1207019-10	)M_7-9-2012_01-58-14PM-03	07/09/12 14:30
Calibration Check	2G19109-CCV2	)M_7-9-2012_01-58-14PM-03	07/09/12 14:33
Calibration Blank	2G19109-CCB2	)M_7-9-2012_01-58-14PM-03	07/09/12 14:34

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19111	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G19111-CCV1	070912-003	07/06/12 15:02
Calibration Blank	2G19111-CCB1	070912-004	07/06/12 15:19
Instrument RL Check	2G19111-CRL1	070912-006	07/06/12 15:54
Instrument RL Check	2G19111-CRL3	070912-008	07/06/12 16:29
LCS	2G06007-BS1	070912-009	07/06/12 16:46
Blank	2G06007-BLK1	070912-010	07/06/12 17:04
Calibration Check	2G19111-CCV2	070912-019	07/06/12 19:41
Calibration Blank	2G19111-CCB2	070912-020	07/06/12 19:58
GW0625	1207019-01	070912-025	07/06/12 21:26
GW0626	1207019-03	070912-026	07/06/12 21:43
GW0628	1207019-07	070912-027	07/06/12 22:00
GW0628	2G06007-MS2	070912-028	07/06/12 22:18
GW0628	2G06007-MSD2	070912-029	07/06/12 22:35
GW0628	2G06007-DUP2	070912-030	07/06/12 22:53
Calibration Check	2G19111-CCV3	070912-031	07/06/12 23:10
Calibration Blank	2G19111-CCB3	070912-032	07/06/12 23:28
GW0627	1207019-05	070912-033	07/06/12 23:45
GW0623	1207019-10	070912-034	07/07/12 00:02
Calibration Check	2G19111-CCV4	070612-040	07/07/12 01:47
Calibration Blank	2G19111-CCB4	070912-041	07/09/12 08:07

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G19204	Instrument:	WC-Lachat
Calibration:	2192001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G19204-CAL1	M_7-10-2012_09-38-52AM-00	07/10/12 09:39
Cal Standard	2G19204-CAL2	M_7-10-2012_09-38-52AM-00	07/10/12 09:41
Cal Standard	2G19204-CAL3	M_7-10-2012_09-38-52AM-00	07/10/12 09:42
Cal Standard	2G19204-CAL4	M_7-10-2012_09-38-52AM-00	07/10/12 09:44
Cal Standard	2G19204-CAL5	M_7-10-2012_09-38-52AM-00	07/10/12 09:45
Cal Standard	2G19204-CAL6	M_7-10-2012_09-38-52AM-00	07/10/12 09:47
Cal Standard	2G19204-CAL7	M_7-10-2012_09-38-52AM-00	07/10/12 09:48
Cal Standard	2G19204-CAL8	M_7-10-2012_09-38-52AM-00	07/10/12 09:50
Initial Cal Check	2G19204-ICV1	M_7-10-2012_09-38-52AM-00	07/10/12 09:51
Initial Cal Blank	2G19204-ICB1	M_7-10-2012_09-38-52AM-01	07/10/12 09:52
Blank	2G10004-BLK1	M_7-10-2012_09-38-52AM-01	07/10/12 09:55
LCS	2G10004-BS1	M_7-10-2012_09-38-52AM-01	07/10/12 09:57
GW0625	1207019-01	M_7-10-2012_09-38-52AM-01	07/10/12 10:00
GW0626	1207019-03	M_7-10-2012_09-38-52AM-01	07/10/12 10:01
GW0627	1207019-05	M_7-10-2012_09-38-52AM-01	07/10/12 10:03
GW0628	1207019-07	M_7-10-2012_09-38-52AM-01	07/10/12 10:04
GW0628	2G10004-MS1	M_7-10-2012_09-38-52AM-01	07/10/12 10:05
GW0628	2G10004-MSD1	M_7-10-2012_09-38-52AM-02	07/10/12 10:07
GW0623	1207019-10	M_7-10-2012_09-38-52AM-02	07/10/12 10:08
GW0624	1207026-01	M_7-10-2012_09-38-52AM-02	07/10/12 10:10
Calibration Check	2G19204-CCV1	M_7-10-2012_09-38-52AM-02	07/10/12 10:11
Calibration Blank	2G19204-CCB1	M_7-10-2012_09-38-52AM-02	07/10/12 10:13

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20111	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20111-CCV1	070912b-003	07/09/12 16:46
Calibration Blank	2G20111-CCB1	070912b-004	07/09/12 17:03
Instrument RL Check	2G20111-CRL1	070912b-005	07/09/12 17:21
Instrument RL Check	2G20111-CRL3	070912b-007	07/09/12 17:55
LCS	2G09015-BS1	070912b-008	07/09/12 18:13
Blank	2G09015-BLK1	070912b-009	07/09/12 18:30
GW0624	1207026-01	070912b-015	07/09/12 20:15
Calibration Check	2G20111-CCV2	070912b-016	07/09/12 20:32
Calibration Blank	2G20111-CCB2	070912b-017	07/09/12 20:50

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_055
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20510	Instrument:	WC-Lachat
Calibration:	2205003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20510-CAL1	M_7-23-2012_12-59-50PM-00	07/23/12 13:01
Cal Standard	2G20510-CAL2	M_7-23-2012_12-59-50PM-00	07/23/12 13:02
Cal Standard	2G20510-CAL3	M_7-23-2012_12-59-50PM-00	07/23/12 13:03
Cal Standard	2G20510-CAL4	M_7-23-2012_12-59-50PM-00	07/23/12 13:04
Cal Standard	2G20510-CAL6	M_7-23-2012_12-59-50PM-00	07/23/12 13:05
Cal Standard	2G20510-CAL5	M_7-23-2012_12-59-50PM-00	07/23/12 13:05
Cal Standard	2G20510-CAL7	M_7-23-2012_12-59-50PM-00	07/23/12 13:06
Cal Standard	2G20510-CAL8	M_7-23-2012_12-59-50PM-00	07/23/12 13:07
Initial Cal Check	2G20510-ICV1	M_7-23-2012_12-59-50PM-00	07/23/12 13:08
Initial Cal Blank	2G20510-ICB1	M_7-23-2012_12-59-50PM-01	07/23/12 13:09
Blank	2G23002-BLK1	M_7-23-2012_12-59-50PM-01	07/23/12 13:10
LCS	2G23002-BS1	M_7-23-2012_12-59-50PM-01	07/23/12 13:11
GW0625	1207019-01	M_7-23-2012_12-59-50PM-01	07/23/12 13:12
GW0626	1207019-03	M_7-23-2012_12-59-50PM-01	07/23/12 13:13
GW0624	1207026-01	M_7-23-2012_12-59-50PM-01	07/23/12 13:14
Calibration Check	2G20510-CCV1	M_7-23-2012_12-59-50PM-02	07/23/12 13:23
Calibration Blank	2G20510-CCB1	M_7-23-2012_12-59-50PM-02	07/23/12 13:23