ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_057

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

SUBMITTAL TO:
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Original Report Date: August 9, 2012
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 573

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 surrogates exceeded criteria:
Bromofluorobenzene with a positive bias in 1207102-03, -21, and -23

The following matrix spikes exceeded criteria:
2G23013-MS1/MSD1 (1207102-13) with a positive bias for Carbon Tetrachloride and 1,1,1-Trichloroethane

The following continuing calibration verifications exceeded criteria:
2G20603-CCV1 with a positive bias for Dichlorodifluoromethane
2G20706-CCV1 with a positive bias for Dichlorodifluoromethane and Carbon Tetrachloride

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

SW8270D BNA:
The following surrogates exceeded criteria:
2-Fluorophenol with a negative bias in 1207102-17, -19, -21, and 1207107-03

The following continuing calibration verifications exceeded criteria:
2G20806-CCV1 with a positive bias for 2,2'-Oxybis-1-chloropropane
2G21305-CCV1 with a positive bias for 2,2'-Oxybis-1-chloropropane

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

SW8015B DRO:
The following continuing calibration verifications exceeded criteria:
2H21607-CCV3 with a positive bias for Diesel Range Organics and o-Terphenyl

The following surrogates exceeded the retention time window:
o-Terphenyl in 1207102-21 and 2H21607-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 1207102-17, -19, 1207107-09, and 2G26008-BLK1 and with a negative bias in 2G24021-MSD2

The following continuing calibration verifications exceeded criteria:

2G20914-CCV1 with a positive bias for Bromofluorobenzene
2G20914-CCV2 with a positive bias for Bromofluorobenzene

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

SW8011:
The following matrix spikes exceeded criteria:
2G26010-MS1/MSD1 (1207109-03) with a negative bias on column 1 for 1,2-Dibromoethane and exceeded relative percent difference criteria on both columns for 1,2-Dibromoethane

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

SW6010B:
The following continuing calibration verifications exceeded criteria:
2G20911-CCV6 with a positive bias for Iron (dissolved)

The following matrix spikes exceeded criteria:
2G23010-MS1/MSD1 (1207102-13) for Calcium and Sodium; note – the parent sample concentrations for Calcium and Sodium are greater than 4 times the amount spiked

The following post spikes exceeded criteria:
2G23010-PS1 (1207102-13) for Calcium; note – the parent sample concentration for Calcium is greater than 4 times the amount spiked

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 1207102-01, -03, -05, -07, -09, -11, -13, -15, -17, -19, -21, -23, 1207107-01, -03, -05, -07, -09, and -11
Chloride (2.5 mg/L) in 1207102-11, -15, -17, -19, -21, -23, 1207107-01, -03, -05, -07, -09, and -11

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

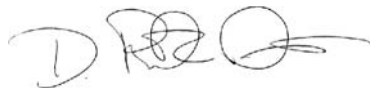
BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch 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

1207102

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW214

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

Samples Shipment Date: 18 JUL 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618471

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Date: 7/18/12 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack Deville Date: 7-19-12 Time: 0830

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

01

Kirtland 057 Sump Package

1207102

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW214

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B					
02	GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0655	KAFB-106030-WG-GW0655-REG	18 JUL 2012	13:32	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0656	KAFB-106031-WG-GW0656-REG	18 JUL 2012	11:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0657	KAFB-106031-WG-GW0657-FD	18 JUL 2012	11:06	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
07	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

1207102

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW214

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
↓	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
↓	GW0685	KAFB-106057-WG-GW0685-REG	16 JUL 2012	14:45	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
09	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
↓	GW0686	KAFB-106058-WG-GW0686-REG	16 JUL 2012	12:44	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
11	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
12	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
↓	GW0737	KAFB-106003-WG-GW0737-REG	18 JUL 2012	14:41	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		

1207102

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW214

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
13	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
14	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0738	KAFB-106101-WG-GW0738-REG	18 JUL 2012	12:10	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
14	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0738-MS	KAFB-106101-WG-GW0738-MS-MS	18 JUL 2012	12:10	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
14	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW214

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
13	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0738-MSD	KAFB-106101-WG-GW0738-MSD-MSD	18 JUL 2012	12:10	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
15	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
16	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
15	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0739	KAFB-106102-WG-GW0739-REG	18 JUL 2012	10:11	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
17	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
18	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
17	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0743	KAFB-106105-WG-GW0743-REG	17 JUL 2012	14:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
19	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
20	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
19	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW214

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B					
19	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0744	KAFB-106106-WG-GW0744-REG	17 JUL 2012	12:14	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
21	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
22	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
21	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
7-19-12 JP	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0745	KAFB-106106-WG-GW0745-FD	17 JUL 2012	12:14	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
23	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
24	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
23	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0746	KAFB-106107-WG-GW0746-REG	17 JUL 2012	10:03	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
5 25	GW8056-AB	FIELDQC-BW-GW8056-AB-AB	18 JUL 2012	10:11	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
26	GW8214-TB	FIELDQC-BW-GW8214-TB-TB	16 JUL 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

JP 7-19-12

Cooler Received/Opened On_ 07/19/12 @ 0830

1. Tracking #_8471_(last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.2 *Degrees Celsius + correction factor - 0.2* = 0.0

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

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

If yes, how many and where: 1 FRONT

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

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

I certify that I opened the cooler and answered questions 1-6 (intial) 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 # 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_ 07/19/12 @ 0830

1. Tracking #_8482_(last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.6 *Degrees Celsius + correction factor - 0.2* = 3.4

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

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

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

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

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

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

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

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 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_ 07/19/12 @ 0830

1. Tracking # 8493 (last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.0 *Degrees Celsius + correction factor - 0.2* = 0.8

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 # 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_ 07/19/12 @ 0830

1. Tracking # 8508 (last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.8 *Degrees Celsius + correction factor - 0.2* = 3.6

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

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

If yes, how many and where: 1 FRONT

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

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

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

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_ 07/19/12 @ 0830

1. Tracking # 8519 (last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 4.6 *Degrees Celsius + correction factor - 0.2* = 4.4

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) 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:

Cooler Received/Opened On_ 07/19/12 @ 0830

1. Tracking # 8520 (last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 4.0 *Degrees Celsius + correction factor - 0.2* = 3.8

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 # 6

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_ 07/19/12 @ 0830

1. Tracking # 8530 (last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 4.4 *Degrees Celsius + correction factor - 0.2* = 4.2

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

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

If yes, how many and where: 1 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 # 7

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_ 07/19/12 @ 0830

1. Tracking #_8541_(last 4 digits, FedEx) WO# 1207102

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor - 0.2* = 2.7

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

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 # 8

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:

1207107

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW215

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

Samples Shipment Date: 19 JUL 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618552

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: 7/19/12 Time: 1400
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 daniels jr. — Date: 7-20-12 Time: 0820

Comments:

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011 ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, ✓ Alkalinity by SM2320B ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D ✓			N		
	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, ✓			N		

Kirtland 057 Sump Package

1207107

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW215

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B ✓					
02	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C ✓			N		
01	GW0629	KAFB3411-WG-GW0629-REG	19 JUL 2012	16:26	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C ✓			N		
03	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0643	KAFB-106016-WG-GW0643-REG	19 JUL 2012	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0653	KAFB-106026-WG-GW0653-REG	19 JUL 2012	16:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
07	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

Kirtland 057 Survey Package

1207107

Shaw™
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW215

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0654	KAFB-106029-WG-GW0654-REG	18 JUL 2012	15:33	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
09	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0730	KAFB-106013-WG-GW0730-REG	19 JUL 2012	11:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
11	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
12	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0732	KAFB-106098-WG-GW0732-REG	19 JUL 2012	10:54	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		

1207107

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW215

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
13	GW8215-TB	FIELDQC-BW-GW8215-TB-TB	19 JUL 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

TD

Cooler Received/Opened On_ 07/20/12 @ 0820

1. Tracking # 8552 (last 4 digits, FedEx) WO# 1207107

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius + correction factor - 0.2 = 1.0

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

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

If yes, how many and where: 1-FRONT

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

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

I certify that I opened the cooler and answered questions 1-6 (intial) 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)? JP 7-20-12 (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: *For Sample GW0730: One vial for VOC [HCl] was broken in shipment; One vial for EDB [NP] was broken in shipment.

For sample: GW0732: One vial for [TPH] HCl was broken in shipment.

Cooler Received/Opened On_ 07/20/12 @ 0820

1. Tracking #_____8563_____(last 4 digits, FedEx) WO# 1207107

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius + correction factor - 0.2* = 1.8

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 # 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_ 07/20/12 @ 0820

1. Tracking # 8574 (last 4 digits, FedEx) WO# 1207107

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.4 *Degrees Celsius + correction factor* - 0.2 = 3.2

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

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

If yes, how many and where: 2 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 # 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:

WORK ORDER

Printed: 7/24/2012 4:57:35PM

1207102

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: 08/09/2012 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: 07/19/2012 08:30
Logged In By: Jack Deville
Date Logged In: 07/19/2012 11:07

Samples Received at: **0°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
1207102-01 GW0655 [Water] Sampled 07/18/2012 13:32 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/25/2012 14:32	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	08/01/2012 14:32	carb/bicarb
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	08/01/2012 14:32	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/25/2012 14:32	
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/15/2012 14:32	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/14/2013 14:32	Ca, Pb, K, Na, Mg
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/15/2012 14:32	
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	08/01/2012 14:32	Run dilutions based on 8260 results!
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 14:32	naphthalene must be reported
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/15/2012 14:32	Cl, SO4
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/25/2012 14:32	
1207102-02 GW0655 [Water] Sampled 07/18/2012 13:32 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 14:32	Fe & Mn

1207102

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
1207102-03 GW0656 [Water] Sampled 07/18/2012 11:06 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/25/2012 12:06	
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	08/01/2012 12:06	
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/25/2012 12:06	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	08/01/2012 12:06	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/25/2012 12:06	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/14/2013 12:06	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 12:06	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	08/01/2012 12:06	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/15/2012 12:06	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/15/2012 12:06	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/15/2012 12:06	
1207102-04 GW0656 [Water] Sampled 07/18/2012 11:06 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 12:06	Fe & Mn
1207102-05 GW0657 [Water] Sampled 07/18/2012 11:06 Mountain 'Field Duplicate'					
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/25/2012 12:06	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	08/01/2012 12:06	
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 12:06	naphthalene must be reported
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/25/2012 12:06	
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/25/2012 12:06	
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	08/01/2012 12:06	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/15/2012 12:06	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/15/2012 12:06	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/15/2012 12:06	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/14/2013 12:06	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	08/01/2012 12:06	Run dilutions based on 8260 results!
1207102-06 GW0657 [Water] Sampled 07/18/2012 11:06 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 12:06	Fe & Mn

1207102

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
1207102-07 GW0685 [Water] Sampled 07/16/2012 14:45 Mountain 'Client Sample'					
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/13/2012 15:45	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/13/2012 15:45	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/13/2012 15:45	
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	07/30/2012 15:45	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/23/2012 15:45	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/12/2013 15:45	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/23/2012 15:45	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	07/30/2012 15:45	
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/30/2012 15:45	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	07/30/2012 15:45	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/23/2012 15:45	
1207102-08 GW0685 [Water] Sampled 07/18/2012 14:45 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 15:45	Fe & Mn
1207102-09 GW0686 [Water] Sampled 07/16/2012 12:44 Mountain 'Client Sample'					
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	07/30/2012 13:44	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/23/2012 13:44	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/12/2013 13:44	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/23/2012 13:44	
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	07/30/2012 13:44	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/23/2012 13:44	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	07/30/2012 13:44	
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/13/2012 13:44	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/13/2012 13:44	
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/30/2012 13:44	naphthalene must be reported
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/13/2012 13:44	Cl, SO4
1207102-10 GW0686 [Water] Sampled 07/18/2012 12:44 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 13:44	Fe & Mn

1207102

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
1207102-11 GW0737 [Water] Sampled 07/18/2012 14:41 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/25/2012 15:41	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/15/2012 15:41	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/25/2012 15:41	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/14/2013 15:41	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	08/01/2012 15:41	Run dilutions based on 8260 results!
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	08/01/2012 15:41	carb/bicarb
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/25/2012 15:41	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	08/01/2012 15:41	
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 15:41	naphthalene must be reported
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/15/2012 15:41	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/15/2012 15:41	Cl, SO4
1207102-12 GW0737 [Water] Sampled 07/18/2012 14:41 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 15:41	Fe & Mn
1207102-13 GW0738 [Water] Sampled 07/18/2012 12:10 Mountain 'Client Sample'					**MS/MSD**
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/15/2012 13:10	MS/MSD
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	08/01/2012 13:10	MS/MSD carb/bicarb
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 13:10	MS/MSD, naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	08/01/2012 13:10	MS/MSD
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/15/2012 13:10	MS/MSD
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/25/2012 13:10	MS/MSD
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/15/2012 13:10	MS/MSD, Cl, SO4
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	08/01/2012 13:10	MS/MSD Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/25/2012 13:10	MS/MSD
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/25/2012 13:10	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/14/2013 13:10	MS/MSD, Ca, Pb, K, Na, Mg
1207102-14 GW0738 [Water] Sampled 07/18/2012 12:10 Mountain 'Client Sample'					**MS/MSD**
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 13:10	MS/MSD, Fe & Mn

1207102

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
1207102-15 GW0739 [Water] Sampled 07/18/2012 10:11 Mountain 'Client Sample'					
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/15/2012 11:11	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/15/2012 11:11	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/15/2012 11:11	
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	08/01/2012 11:11	carb/bicarb
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 11:11	naphthalene must be reported
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/25/2012 11:11	
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	08/01/2012 11:11	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/25/2012 11:11	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	08/01/2012 11:11	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/25/2012 11:11	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/14/2013 11:11	Ca, Pb, K, Na, Mg
1207102-16 GW0739 [Water] Sampled 07/18/2012 10:11 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/14/2013 11:11	Fe & Mn
1207102-17 GW0743 [Water] Sampled 07/17/2012 14:37 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/24/2012 15:37	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/24/2012 15:37	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/14/2012 15:37	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/14/2012 15:37	
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	07/31/2012 15:37	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/14/2012 15:37	
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	07/31/2012 15:37	
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	07/31/2012 15:37	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/24/2012 15:37	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/13/2013 15:37	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/31/2012 15:37	naphthalene must be reported
1207102-18 GW0743 [Water] Sampled 07/17/2012 14:37 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/13/2013 15:37	Fe & Mn

1207102

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
1207102-19 GW0744 [Water] Sampled 07/17/2012 12:14 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	07/31/2012 13:14	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/24/2012 13:14	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/14/2012 13:14	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/14/2012 13:14	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/14/2012 13:14	
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	07/31/2012 13:14	carb/bicarb
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/31/2012 13:14	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	07/31/2012 13:14	
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/24/2012 13:14	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/24/2012 13:14	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/13/2013 13:14	Ca, Pb, K, Na, Mg
1207102-20 GW0744 [Water] Sampled 07/17/2012 12:14 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/13/2013 13:14	Fe & Mn
1207102-21 GW0745 [Water] Sampled 07/17/2012 12:14 Mountain 'Field Duplicate'					
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/31/2012 13:14	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	07/31/2012 13:14	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/14/2012 13:14	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/14/2012 13:14	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/13/2013 13:14	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/24/2012 13:14	
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	07/31/2012 13:14	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/24/2012 13:14	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/14/2012 13:14	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/24/2012 13:14	
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	07/31/2012 13:14	
1207102-22 GW0745 [Water] Sampled 07/17/2012 12:14 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/13/2013 13:14	Fe & Mn

1207102

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
1207102-23 GW0746 [Water] Sampled 07/17/2012 10:03 Mountain 'Field Duplicate'					
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/31/2012 11:03	naphthalene must be reported
SW8011	SGC_EDB_8011	08/06/2012 14:00	15	07/31/2012 11:03	Run dilutions based on 8260 results!
SW8015B GRO	VGC_GRO_8015B	08/06/2012 14:00	15	07/31/2012 11:03	
SW6010B	MET_ICP_6010B_FULL	08/06/2012 14:00	15	01/13/2013 11:03	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/06/2012 14:00	15	07/24/2012 11:03	
SM2320B	WC_ALKALINITY_2320B	08/06/2012 14:00	15	07/31/2012 11:03	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/06/2012 14:00	15	08/14/2012 11:03	
E300.0	WC_ANIONS_300.0 (Regular)	08/06/2012 14:00	15	08/14/2012 11:03	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/06/2012 14:00	15	08/14/2012 11:03	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/06/2012 14:00	15	07/24/2012 11:03	
SW8270D	SMS_BNA_8270D_3510_REG	08/06/2012 14:00	15	07/24/2012 11:03	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1207102-24 GW0746 [Water] Sampled 07/17/2012 10:03 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/06/2012 14:00	15	01/13/2013 11:03	Fe & Mn
1207102-25 GW8056-AB [Water] Sampled 07/18/2012 10:11 Mountain 'Ambient Blank'					
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	08/01/2012 11:11	naphthalene must be reported
1207102-26 GW8214-TB [Water] Sampled 07/16/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	08/06/2012 14:00	15	07/30/2012 09:00	naphthalene must be reported

Reviewed By

Date

WORK ORDER

Printed: 7/24/2012 5:32:04PM

1207107

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: 08/10/2012 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: 07/20/2012 08:20
Logged In By: Jack Deville
Date Logged In: 07/20/2012 09:39

Samples Received at: **1°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1207107-01 GWO629 [Water] Sampled 07/19/2012 16:26 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	08/07/2012 14:00	15	07/26/2012 17:26	
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/02/2012 17:26	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/07/2012 14:00	15	08/02/2012 17:26	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/07/2012 14:00	15	08/16/2012 17:26	
E300.0	WC_ANIONS_300.0 (Regular)	08/07/2012 14:00	15	08/16/2012 17:26	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/07/2012 14:00	15	08/16/2012 17:26	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/07/2012 14:00	15	07/26/2012 17:26	
SW8011	SGC_EDB_8011	08/07/2012 14:00	15	08/02/2012 17:26	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	08/07/2012 14:00	15	01/15/2013 17:26	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	08/07/2012 14:00	15	07/26/2012 17:26	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/07/2012 14:00	15	08/02/2012 17:26	
1207107-02 GWO629 [Water] Sampled 07/19/2012 16:26 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/07/2012 14:00	15	01/15/2013 17:26	Fe & Mn

1207107

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
1207107-03 GWO643 [Water] Sampled 07/19/2012 14:45 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/07/2012 14:00	15	08/16/2012 15:45	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/07/2012 14:00	15	07/26/2012 15:45	
E300.0	WC_ANIONS_300.0 (Regular)	08/07/2012 14:00	15	08/16/2012 15:45	Cl, SO4
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/02/2012 15:45	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/07/2012 14:00	15	08/02/2012 15:45	
SW6010B	MET_ICP_6010B_FULL	08/07/2012 14:00	15	01/15/2013 15:45	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	08/07/2012 14:00	15	07/26/2012 15:45	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/07/2012 14:00	15	08/02/2012 15:45	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/07/2012 14:00	15	07/26/2012 15:45	
SM2320B	WC_ALKALINITY_2320B	08/07/2012 14:00	15	08/02/2012 15:45	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	08/07/2012 14:00	15	08/16/2012 15:45	
1207107-04 GWO643 [Water] Sampled 07/19/2012 14:45 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/07/2012 14:00	15	01/15/2013 15:45	Fe & Mn
1207107-05 GWO653 [Water] Sampled 07/19/2012 16:00 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	08/07/2012 14:00	15	08/02/2012 17:00	Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	08/07/2012 14:00	15	07/26/2012 17:00	
E353.2	WC_NO3NO2_N_353.2	08/07/2012 14:00	15	08/16/2012 17:00	
E300.0	WC_ANIONS_300.0 (Regular)	08/07/2012 14:00	15	08/16/2012 17:00	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/07/2012 14:00	15	08/16/2012 17:00	
SM2320B	WC_ALKALINITY_2320B	08/07/2012 14:00	15	08/02/2012 17:00	carb/bicarb
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/02/2012 17:00	naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	08/07/2012 14:00	15	07/26/2012 17:00	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	08/07/2012 14:00	15	07/26/2012 17:00	
SW6010B	MET_ICP_6010B_FULL	08/07/2012 14:00	15	01/15/2013 17:00	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	08/07/2012 14:00	15	08/02/2012 17:00	
1207107-06 GWO653 [Water] Sampled 07/19/2012 16:00 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/07/2012 14:00	15	01/15/2013 17:00	Fe & Mn

1207107

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
1207107-07 GWO654 [Water] Sampled 07/18/2012 15:33 Mountain 'Client Sample'					
SW8015B GRO	VGC_GRO_8015B	08/07/2012 14:00	15	08/01/2012 16:33	
SW6010B	MET_ICP_6010B_FULL	08/07/2012 14:00	15	01/14/2013 16:33	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	08/07/2012 14:00	15	07/25/2012 16:33	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/01/2012 16:33	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/07/2012 14:00	15	08/01/2012 16:33	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/07/2012 14:00	15	08/15/2012 16:33	
E300.0	WC_ANIONS_300.0 (Regular)	08/07/2012 14:00	15	08/15/2012 16:33	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/07/2012 14:00	15	08/15/2012 16:33	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/07/2012 14:00	15	07/25/2012 16:33	
SW8011	SGC_EDB_8011	08/07/2012 14:00	15	08/01/2012 16:33	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/07/2012 14:00	15	07/25/2012 16:33	
1207107-08 GWO654 [Water] Sampled 07/18/2012 15:33 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/07/2012 14:00	15	01/14/2013 16:33	Fe & Mn
1207107-09 GWO730 [Water] Sampled 07/19/2012 11:37 Mountain 'Client Sample'					**One vial for VOC and one vial for EDB were broken in shipment**
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/02/2012 12:37	One vial for VOC and one vial for EDB were broken in shipment, na
SW8015B DRO	SGC_DRO_8015B_3510	08/07/2012 14:00	15	07/26/2012 12:37	
SM2320B	WC_ALKALINITY_2320B	08/07/2012 14:00	15	08/02/2012 12:37	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	08/07/2012 14:00	15	08/16/2012 12:37	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/07/2012 14:00	15	08/16/2012 12:37	
SW6010B	MET_ICP_6010B_FULL	08/07/2012 14:00	15	01/15/2013 12:37	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	08/07/2012 14:00	15	07/26/2012 12:37	
SW8015B GRO	VGC_GRO_8015B	08/07/2012 14:00	15	08/02/2012 12:37	
SW8270D	SMS_BNA_8270D_3510_REG	08/07/2012 14:00	15	07/26/2012 12:37	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/07/2012 14:00	15	08/02/2012 12:37	One vial for VOC and one vial for EDB were broken in shipment, Ru
E300.0	WC_ANIONS_300.0 (Regular)	08/07/2012 14:00	15	08/16/2012 12:37	Cl, SO4
1207107-10 GWO730 [Water] Sampled 07/19/2012 11:37 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/07/2012 14:00	15	01/15/2013 12:37	Fe & Mn

1207107

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
1207107-11 GWO732 [Water] Sampled 07/19/2012 10:54 Mountain 'Client Sample'					**One vial for TPH was broken in shipment.**
SW8270D	SMS_BNA_8270D_3510_REG	08/07/2012 14:00	15	07/26/2012 11:54	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/07/2012 14:00	15	08/02/2012 11:54	One vial for TPH was broken in shipment.
SM4500S2CF	WC_SULFIDE_4500S2CF	08/07/2012 14:00	15	07/26/2012 11:54	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/07/2012 14:00	15	08/16/2012 11:54	
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/02/2012 11:54	naphthalene must be reported
SW8011	SGC_EDB_8011	08/07/2012 14:00	15	08/02/2012 11:54	Run dilutions based on 8260 results!
E300.0	WC_ANIONS_300.0 (Regular)	08/07/2012 14:00	15	08/16/2012 11:54	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/07/2012 14:00	15	08/02/2012 11:54	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	08/07/2012 14:00	15	07/26/2012 11:54	
SW6010B	MET_ICP_6010B_FULL	08/07/2012 14:00	15	01/15/2013 11:54	Ca, Pb, K, Na, Mg
E353.2	WC_NO3NO2_N_353.2	08/07/2012 14:00	15	08/16/2012 11:54	
1207107-12 GWO732 [Water] Sampled 07/19/2012 10:54 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/07/2012 14:00	15	01/15/2013 11:54	Fe & Mn
1207107-13 GW8215-TB [Water] Sampled 07/19/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	08/07/2012 14:00	15	08/02/2012 09:00	naphthalene must be reported

Reviewed By

Date

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_057

QC LEVEL: Level IV
Report Due: 8/9/2012 - 8/10/2012
Client Sample Count: 30

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B
Client Sample	7/18/2012	7/19/2012	1207102-01	GW0655	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-02	GW0655	Water						X
Client Sample	7/18/2012	7/19/2012	1207102-03	GW0656	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-04	GW0656	Water						X
Field Duplicate	7/18/2012	7/19/2012	1207102-05	GW0657	Water	X	X	X	X	X	X
Field Duplicate	7/18/2012	7/19/2012	1207102-06	GW0657	Water						X
Client Sample	7/16/2012	7/19/2012	1207102-07	GW0685	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-08	GW0685	Water						X
Client Sample	7/16/2012	7/19/2012	1207102-09	GW0686	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-10	GW0686	Water						X
Client Sample	7/18/2012	7/19/2012	1207102-11	GW0737	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-12	GW0737	Water						X
Client Sample	7/18/2012	7/19/2012	1207102-13	GW0738	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	7/18/2012	7/19/2012	1207102-14	GW0738	Water						MS/MSD
Client Sample	7/18/2012	7/19/2012	1207102-15	GW0739	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-16	GW0739	Water						X
Client Sample	7/17/2012	7/19/2012	1207102-17	GW0743	Water	X	X	X	X	X	X
Client Sample	7/17/2012	7/19/2012	1207102-18	GW0743	Water						X
Client Sample	7/17/2012	7/19/2012	1207102-19	GW0744	Water	X	X	X	X	X	X
Client Sample	7/17/2012	7/19/2012	1207102-20	GW0744	Water						X
Field Duplicate	7/17/2012	7/19/2012	1207102-21	GW0745	Water	X	X	X	X	X	X
Field Duplicate	7/17/2012	7/19/2012	1207102-22	GW0745	Water						X
Field Duplicate	7/17/2012	7/19/2012	1207102-23	GW0746	Water	X	X	X	X	X	X
Field Duplicate	7/17/2012	7/19/2012	1207102-24	GW0746	Water						X
Ambient Blank	7/18/2012	7/19/2012	1207102-25	GW8056-AB	Water						
Trip Blank	7/16/2012	7/19/2012	1207102-26	GW8214-TB	Water						
Client Sample	7/19/2012	7/20/2012	1207107-01	GW0629	Water	X	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-02	GW0629	Water						X
Client Sample	7/19/2012	7/20/2012	1207107-03	GW0643	Water	X	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-04	GW0643	Water						X
Client Sample	7/19/2012	7/20/2012	1207107-05	GW0653	Water	X	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-06	GW0653	Water						X
Client Sample	7/18/2012	7/20/2012	1207107-07	GW0654	Water	X	X	X	X	X	X
Client Sample	7/18/2012	7/20/2012	1207107-08	GW0654	Water						X
Client Sample	7/19/2012	7/20/2012	1207107-09	GW0730	Water	X	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-10	GW0730	Water						X
Client Sample	7/19/2012	7/20/2012	1207107-11	GW0732	Water	X	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-12	GW0732	Water						X
Trip Blank	7/19/2012	7/20/2012	1207107-13	GW8215-TB	Water						

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	7/18/2012	7/19/2012	1207102-01	GW0655	Water	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-02	GW0655	Water					
Client Sample	7/18/2012	7/19/2012	1207102-03	GW0656	Water	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-04	GW0656	Water					
Field Duplicate	7/18/2012	7/19/2012	1207102-05	GW0657	Water	X	X	X	X	X
Field Duplicate	7/18/2012	7/19/2012	1207102-06	GW0657	Water					
Client Sample	7/16/2012	7/19/2012	1207102-07	GW0685	Water	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-08	GW0685	Water					
Client Sample	7/16/2012	7/19/2012	1207102-09	GW0686	Water	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-10	GW0686	Water					
Client Sample	7/18/2012	7/19/2012	1207102-11	GW0737	Water	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-12	GW0737	Water					
Client Sample	7/18/2012	7/19/2012	1207102-13	GW0738	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	7/18/2012	7/19/2012	1207102-14	GW0738	Water					
Client Sample	7/18/2012	7/19/2012	1207102-15	GW0739	Water	X	X	X	X	X
Client Sample	7/18/2012	7/19/2012	1207102-16	GW0739	Water					
Client Sample	7/17/2012	7/19/2012	1207102-17	GW0743	Water	X	X	X	X	X
Client Sample	7/17/2012	7/19/2012	1207102-18	GW0743	Water					
Client Sample	7/17/2012	7/19/2012	1207102-19	GW0744	Water	X	X	X	X	X
Client Sample	7/17/2012	7/19/2012	1207102-20	GW0744	Water					
Field Duplicate	7/17/2012	7/19/2012	1207102-21	GW0745	Water	X	X	X	X	X
Field Duplicate	7/17/2012	7/19/2012	1207102-22	GW0745	Water					
Field Duplicate	7/17/2012	7/19/2012	1207102-23	GW0746	Water	X	X	X	X	X
Field Duplicate	7/17/2012	7/19/2012	1207102-24	GW0746	Water					
Ambient Blank	7/18/2012	7/19/2012	1207102-25	GW8056-AB	Water				X	
Trip Blank	7/16/2012	7/19/2012	1207102-26	GW8214-TB	Water				X	
Client Sample	7/19/2012	7/20/2012	1207107-01	GW0629	Water	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-02	GW0629	Water					
Client Sample	7/19/2012	7/20/2012	1207107-03	GW0643	Water	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-04	GW0643	Water					
Client Sample	7/19/2012	7/20/2012	1207107-05	GW0653	Water	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-06	GW0653	Water					
Client Sample	7/18/2012	7/20/2012	1207107-07	GW0654	Water	X	X	X	X	X
Client Sample	7/18/2012	7/20/2012	1207107-08	GW0654	Water					
Client Sample	7/19/2012	7/20/2012	1207107-09	GW0730	Water	X	X	X	X	X
Client Sample	7/19/2012	7/20/2012	1207107-10	GW0730	Water					
Client Sample	7/19/2012	7/20/2012	1207107-11	GW0732	Water	X	X	X	X	x
Client Sample	7/19/2012	7/20/2012	1207107-12	GW0732	Water					
Trip Blank	7/19/2012	7/20/2012	1207107-13	GW8215-TB	Water				X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	0710201.D
Sampled:	07/18/12 13:32	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 12:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	0710201.D
Sampled:	07/18/12 13:32	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 12:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	31.19	104	75 - 120	
Dibromofluoromethane	30.00	33.08	110	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	30.13	100	85 - 120	

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	0710203.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 12:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	0710203.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 12:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.13	100	75 - 120	
Dibromofluoromethane	30.00	34.65	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	31.52	105	70 - 120	
Toluene-d8	30.00	30.13	100	85 - 120	

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	0710205.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 13:00
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	0710205.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 13:00
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.26	101	75 - 120	
Dibromofluoromethane	30.00	34.06	114	85 - 115	
1,2-Dichloroethane-d4	30.00	31.56	105	70 - 120	
Toluene-d8	30.00	29.44	98.1	85 - 120	

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	0710207.D
Sampled:	07/16/12 14:45	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 13:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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)	0.380	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	0710207.D
Sampled:	07/16/12 14:45	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 13:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	0.310	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.340	0.250	0.500	1.00	J
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	30.78	103	75 - 120	
Dibromofluoromethane	30.00	34.06	114	85 - 115	
1,2-Dichloroethane-d4	30.00	31.42	105	70 - 120	
Toluene-d8	30.00	29.55	98.5	85 - 120	

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	0710209.D
Sampled:	07/16/12 12:44	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 13:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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)	0.480	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	0710209.D
Sampled:	07/16/12 12:44	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 13:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.81	103	75 - 120	
Dibromofluoromethane	30.00	33.22	111	85 - 115	
1,2-Dichloroethane-d4	30.00	31.15	104	70 - 120	
Toluene-d8	30.00	29.63	98.8	85 - 120	

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	0710211.D
Sampled:	07/18/12 14:41	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	0710211.D
Sampled:	07/18/12 14:41	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	29.77	99.2	75 - 120	
Dibromofluoromethane	30.00	33.74	112	85 - 115	
1,2-Dichloroethane-d4	30.00	32.14	107	70 - 120	
Toluene-d8	30.00	28.50	95.0	85 - 120	

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	0710213.D
Sampled:	07/18/12 12:10	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 14:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	N, 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

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	0710213.D
Sampled:	07/18/12 12:10	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 14:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	N, 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	34.42	115	85 - 115	
1,2-Dichloroethane-d4	30.00	31.91	106	70 - 120	
Toluene-d8	30.00	28.81	96.0	85 - 120	

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	0710215.D
Sampled:	07/18/12 10:11	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 15:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	0710215.D
Sampled:	07/18/12 10:11	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 15:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	29.47	98.2	75 - 120	
Dibromofluoromethane	30.00	33.81	113	85 - 115	
1,2-Dichloroethane-d4	30.00	32.80	109	70 - 120	
Toluene-d8	30.00	29.14	97.1	85 - 120	

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	0710217.D
Sampled:	07/17/12 14:37	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 15:52
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	0710217.D
Sampled:	07/17/12 14:37	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 15:52
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.29	101	75 - 120	
Dibromofluoromethane	30.00	34.57	115	85 - 115	
1,2-Dichloroethane-d4	30.00	31.71	106	70 - 120	
Toluene-d8	30.00	28.89	96.3	85 - 120	

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	0710219.D
Sampled:	07/17/12 12:14	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 16:21
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	0710219.D
Sampled:	07/17/12 12:14	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 16:21
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	31.22	104	75 - 120	
Dibromofluoromethane	30.00	34.25	114	85 - 115	
1,2-Dichloroethane-d4	30.00	33.88	113	70 - 120	
Toluene-d8	30.00	30.20	101	85 - 120	

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	0710221.D
Sampled:	07/17/12 12:14	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 16:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	0710221.D
Sampled:	07/17/12 12:14	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 16:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.90	103	75 - 120	
Dibromofluoromethane	30.00	34.69	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	32.88	110	70 - 120	
Toluene-d8	30.00	29.69	99.0	85 - 120	

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	0710223.D
Sampled:	07/17/12 10:03	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 17:18
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	0710223.D
Sampled:	07/17/12 10:03	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 17:18
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.73	102	75 - 120	
Dibromofluoromethane	30.00	35.03	117	85 - 115	*
1,2-Dichloroethane-d4	30.00	32.53	108	70 - 120	
Toluene-d8	30.00	30.35	101	85 - 120	

ANALYSIS DATA SHEET

GW8056-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-25	File ID:	0710225.D
Sampled:	07/18/12 10:11	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 10:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW8056-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-25	File ID:	0710225.D
Sampled:	07/18/12 10:11	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 10:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.96	103	75 - 120	
Dibromofluoromethane	30.00	33.97	113	85 - 115	
1,2-Dichloroethane-d4	30.00	32.43	108	70 - 120	
Toluene-d8	30.00	29.73	99.1	85 - 120	

ANALYSIS DATA SHEET

GW8214-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-26	File ID:	0710226.D
Sampled:	07/16/12 08:00	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 11:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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

GW8214-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-26	File ID:	0710226.D
Sampled:	07/16/12 08:00	Prepared:	07/23/12 00:00	Analyzed:	07/23/12 11:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G23013 Sequence: 2G20603 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	30.94	103	75 - 120	
Dibromofluoromethane	30.00	33.75	112	85 - 115	
1,2-Dichloroethane-d4	30.00	33.76	113	70 - 120	
Toluene-d8	30.00	29.56	98.5	85 - 120	

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	0710701.D
Sampled:	07/19/12 16:26	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 15:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	0710701.D
Sampled:	07/19/12 16:26	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 15:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	30.34	101	75 - 120	
Dibromofluoromethane	30.00	33.94	113	85 - 115	
1,2-Dichloroethane-d4	30.00	31.42	105	70 - 120	
Toluene-d8	30.00	30.10	100	85 - 120	

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	0710703.D
Sampled:	07/19/12 14:45	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 16:20
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	0710703.D
Sampled:	07/19/12 14:45	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 16:20
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	30.89	103	75 - 120	
Dibromofluoromethane	30.00	34.24	114	85 - 115	
1,2-Dichloroethane-d4	30.00	32.40	108	70 - 120	
Toluene-d8	30.00	29.33	97.8	85 - 120	

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	0710705.D
Sampled:	07/19/12 16:00	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 16:48
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	0710705.D
Sampled:	07/19/12 16:00	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 16:48
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	0.480	0.250	0.500	1.00	J
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.38	105	75 - 120	
Dibromofluoromethane	30.00	33.75	112	85 - 115	
1,2-Dichloroethane-d4	30.00	32.94	110	70 - 120	
Toluene-d8	30.00	30.73	102	85 - 120	

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	0710707.D
Sampled:	07/18/12 15:33	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 17:17
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	0710707.D
Sampled:	07/18/12 15:33	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 17:17
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	30.78	103	75 - 120	
Dibromofluoromethane	30.00	34.21	114	85 - 115	
1,2-Dichloroethane-d4	30.00	31.86	106	70 - 120	
Toluene-d8	30.00	29.47	98.2	85 - 120	

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	0710709.D
Sampled:	07/19/12 11:37	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 17:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	0710709.D
Sampled:	07/19/12 11:37	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 17:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	0.520	0.250	0.500	1.00	J
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	30.95	103	75 - 120	
Dibromofluoromethane	30.00	33.74	112	85 - 115	
1,2-Dichloroethane-d4	30.00	32.54	108	70 - 120	
Toluene-d8	30.00	29.59	98.6	85 - 120	

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	0710711.D
Sampled:	07/19/12 10:54	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 18:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	0710711.D
Sampled:	07/19/12 10:54	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 18:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	31.76	106	75 - 120	
Dibromofluoromethane	30.00	34.38	115	85 - 115	
1,2-Dichloroethane-d4	30.00	32.02	107	70 - 120	
Toluene-d8	30.00	29.62	98.7	85 - 120	

ANALYSIS DATA SHEET

GW8215-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-13	File ID:	0710713.D
Sampled:	07/19/12 08:00	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 13:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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

GW8215-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-13	File ID:	0710713.D
Sampled:	07/19/12 08:00	Prepared:	07/24/12 00:00	Analyzed:	07/24/12 13:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2G24004 Sequence: 2G20706 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	30.16	101	75 - 120	
Dibromofluoromethane	30.00	33.88	113	85 - 115	
1,2-Dichloroethane-d4	30.00	31.46	105	70 - 120	
Toluene-d8	30.00	29.61	98.7	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20603-CCV1) ug/L				Lab File ID: SEQCCV2.D		Analyzed: 07/23/12 08:13		
Bromofluorobenzene	30.00	106	80 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	108	80 - 120	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	95.8	80 - 120	9.477	9.477	0.0000	+/-1.000	
LCS (2G23013-BS1) ug/L				Lab File ID: 0723LCS1.D		Analyzed: 07/23/12 08:42		
Bromofluorobenzene	30.00	102	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	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	98.5	85 - 120	9.477	9.477	0.0000	+/-1.000	
Blank (2G23013-BLK1) ug/L				Lab File ID: 0723BLK1.D		Analyzed: 07/23/12 10:08		
Bromofluorobenzene	30.00	103	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW8056-AB (1207102-25) ug/L				Lab File ID: 0710225.D		Analyzed: 07/23/12 10:37		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	99.1	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW8214-TB (1207102-26) ug/L				Lab File ID: 0710226.D		Analyzed: 07/23/12 11:06		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	113	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.5	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0655 (1207102-01) ug/L				Lab File ID: 0710201.D		Analyzed: 07/23/12 12:03		
Bromofluorobenzene	30.00	104	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	110	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	100	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0656 (1207102-03) ug/L				Lab File ID: 0710203.D		Analyzed: 07/23/12 12:32		
Bromofluorobenzene	30.00	100	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	6.727	6.727	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.477	9.477	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0657 (1207102-05) ug/L				Lab File ID: 0710205.D		Analyzed: 07/23/12 13:00		
Bromofluorobenzene	30.00	101	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0685 (1207102-07) ug/L				Lab File ID: 0710207.D		Analyzed: 07/23/12 13:29		
Bromofluorobenzene	30.00	103	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	98.5	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0686 (1207102-09) ug/L				Lab File ID: 0710209.D		Analyzed: 07/23/12 13:58		
Bromofluorobenzene	30.00	103	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	111	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	98.8	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0737 (1207102-11) ug/L				Lab File ID: 0710211.D		Analyzed: 07/23/12 14:26		
Bromofluorobenzene	30.00	99.2	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	95.0	85 - 120	9.476	9.477	-0.0010	+/-1.000	
GW0738 (1207102-13) ug/L				Lab File ID: 0710213.D		Analyzed: 07/23/12 14:55		
Bromofluorobenzene	30.00	101	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0739 (1207102-15) ug/L				Lab File ID: 0710215.D		Analyzed: 07/23/12 15:24		
Bromofluorobenzene	30.00	98.2	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	97.1	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0743 (1207102-17) ug/L				Lab File ID: 0710217.D		Analyzed: 07/23/12 15:52		
Bromofluorobenzene	30.00	101	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	9.477	9.477	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0744 (1207102-19) ug/L				Lab File ID: 0710219.D		Analyzed: 07/23/12 16:21		
Bromofluorobenzene	30.00	104	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	113	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0745 (1207102-21) ug/L				Lab File ID: 0710221.D		Analyzed: 07/23/12 16:50		
Bromofluorobenzene	30.00	103	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	6.727	6.727	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	99.0	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0746 (1207102-23) ug/L				Lab File ID: 0710223.D		Analyzed: 07/23/12 17:18		
Bromofluorobenzene	30.00	102	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	117	85 - 115	6.727	6.727	0.0000	+/-1.000	*
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.477	9.477	0.0000	+/-1.000	
Matrix Spike (2G23013-MS1) ug/L				Lab File ID: 0710213M.D		Analyzed: 07/23/12 17:47		
Bromofluorobenzene	30.00	107	75 - 120	12.117	12.111	0.0060	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	94.0	85 - 120	9.477	9.477	0.0000	+/-1.000	
Matrix Spike Dup (2G23013-MSD1) ug/L				Lab File ID: 0710213S.D		Analyzed: 07/23/12 18:16		
Bromofluorobenzene	30.00	109	75 - 120	12.111	12.111	0.0000	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.8	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	99.3	85 - 120	9.477	9.477	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20706	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20706-CCV1) ug/L				Lab File ID: SEQCCV2.D		Analyzed: 07/24/12 10:07		
Bromofluorobenzene	30.00	105	80 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	80 - 120	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	97.3	80 - 120	9.477	9.477	0.0000	+/-1.000	
LCS (2G24004-BS1) ug/L				Lab File ID: 0724LCS1.D		Analyzed: 07/24/12 10:36		
Bromofluorobenzene	30.00	107	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	97.6	85 - 120	9.477	9.477	0.0000	+/-1.000	
Blank (2G24004-BLK1) ug/L				Lab File ID: 0724BLK1.D		Analyzed: 07/24/12 12:02		
Bromofluorobenzene	30.00	106	75 - 120	12.111	12.117	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW8215-TB (1207107-13) ug/L				Lab File ID: 0710713.D		Analyzed: 07/24/12 13:28		
Bromofluorobenzene	30.00	101	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	113	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	98.7	85 - 120	9.476	9.477	-0.0010	+/-1.000	
GW0629 (1207107-01) ug/L				Lab File ID: 0710701.D		Analyzed: 07/24/12 15:51		
Bromofluorobenzene	30.00	101	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0643 (1207107-03) ug/L				Lab File ID: 0710703.D		Analyzed: 07/24/12 16:20		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	97.8	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0653 (1207107-05) ug/L				Lab File ID: 0710705.D		Analyzed: 07/24/12 16:48		
Bromofluorobenzene	30.00	105	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.477	9.477	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20706	Instrument:	MS-VOA3
		Calibration:	2191002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0654 (1207107-07) ug/L				Lab File ID: 0710707.D		Analyzed: 07/24/12 17:17		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.238	7.232	0.0060	+/-1.000	
Toluene-d8	30.00	98.2	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0730 (1207107-09) ug/L				Lab File ID: 0710709.D		Analyzed: 07/24/12 17:45		
Bromofluorobenzene	30.00	103	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0732 (1207107-11) ug/L				Lab File ID: 0710711.D		Analyzed: 07/24/12 18:14		
Bromofluorobenzene	30.00	106	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.232	7.232	0.0000	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	9.477	9.477	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23013	Laboratory ID:	2G23013-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	113	113	40 - 140
Benzene	50.00	50.3	101	80 - 120
Bromobenzene	50.00	47.5	95.1	75 - 125
Bromochloromethane	50.00	57.0	114	65 - 130
Bromodichloromethane	50.00	54.6	109	75 - 120
Bromoform	50.00	56.1	112	70 - 130
Bromomethane	50.00	45.7	91.4	30 - 145
n-Butylbenzene	50.00	45.0	90.0	70 - 135
2-Butanone	100.0	111	111	30 - 150
sec-Butylbenzene	50.00	45.6	91.2	70 - 125
tert-Butylbenzene	50.00	47.9	95.8	70 - 130
Carbon disulfide	50.00	44.5	88.9	35 - 160
Carbon tetrachloride	50.00	62.6	125	65 - 140
Chlorobenzene	50.00	49.5	99.1	80 - 120
Chloroethane	50.00	48.8	97.5	60 - 135
Chloroform	50.00	51.1	102	65 - 135
Chloromethane	50.00	45.3	90.6	40 - 125
2-Chlorotoluene	50.00	44.3	88.6	75 - 125
4-Chlorotoluene	50.00	43.8	87.6	75 - 130
Dibromochloromethane	50.00	54.9	110	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.1	100	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.2	102	80 - 120
Dibromomethane	50.00	53.0	106	75 - 125
1,2-Dichlorobenzene	50.00	49.4	98.8	70 - 120
1,3-Dichlorobenzene	50.00	48.1	96.2	75 - 125
1,4-Dichlorobenzene	50.00	48.6	97.1	75 - 125
Dichlorodifluoromethane	50.00	61.9	124	30 - 155
1,1-Dichloroethane	50.00	50.4	101	70 - 135
1,2-Dichloroethane	50.00	56.3	113	70 - 130
1,1-Dichloroethene	50.00	47.5	95.0	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23013	Laboratory ID:	2G23013-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	52.0	104	70 - 125
trans-1,2-Dichloroethene	50.00	50.4	101	60 - 140
1,2-Dichloropropane	50.00	48.2	96.5	75 - 125
1,3-Dichloropropane	50.00	47.8	95.6	75 - 125
2,2-Dichloropropane	50.00	58.2	116	70 - 135
1,1-Dichloropropene	50.00	51.5	103	75 - 130
cis-1,3-Dichloropropene	50.00	56.0	112	70 - 130
trans-1,3-Dichloropropene	50.00	49.7	99.4	55 - 140
Ethylbenzene	50.00	48.3	96.6	75 - 125
Hexachlorobutadiene	50.00	44.7	89.4	50 - 140
2-Hexanone	100.0	112	112	55 - 130
Isopropylbenzene	50.00	49.3	98.5	75 - 125
p-Isopropyltoluene	50.00	46.5	93.1	75 - 130
Methylene chloride	50.00	46.9	93.9	55 - 140
Naphthalene	50.00	51.8	104	55 - 140
4-Methyl-2-pentanone	100.0	117	117	60 - 135
Methyl t-Butyl Ether	50.00	55.3	111	65 - 125
n-Propylbenzene	50.00	43.5	86.9	70 - 130
Styrene	50.00	51.3	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	42.3	84.6	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.5	113	80 - 130
Tetrachloroethene	50.00	50.7	101	45 - 150
Toluene	50.00	47.2	94.4	75 - 120
1,2,3-Trichlorobenzene	50.00	49.0	98.1	55 - 140
1,2,4-Trichlorobenzene	50.00	48.9	97.8	65 - 135
1,1,2-Trichloroethane	50.00	50.7	101	75 - 125
1,1,1-Trichloroethane	50.00	58.7	117	65 - 130
Trichloroethene	50.00	54.9	110	70 - 125
Trichlorofluoromethane	50.00	57.6	115	60 - 145
1,2,3-Trichloropropane	50.00	56.0	112	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23013	Laboratory ID:	2G23013-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	48.9	97.7	75 - 130
1,2,4-Trimethylbenzene	50.00	47.5	95.0	75 - 130
Vinyl chloride	50.00	51.3	103	50 - 145
Xylenes (total)	150.0	147	98.3	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G24004	Laboratory ID:	2G24004-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	100	100	40 - 140
Benzene	50.00	48.4	96.7	80 - 120
Bromobenzene	50.00	46.1	92.2	75 - 125
Bromochloromethane	50.00	57.9	116	65 - 130
Bromodichloromethane	50.00	53.2	106	75 - 120
Bromoform	50.00	56.9	114	70 - 130
Bromomethane	50.00	45.6	91.1	30 - 145
n-Butylbenzene	50.00	44.0	87.9	70 - 135
2-Butanone	100.0	95.5	95.5	30 - 150
sec-Butylbenzene	50.00	45.1	90.2	70 - 125
tert-Butylbenzene	50.00	46.1	92.1	70 - 130
Carbon disulfide	50.00	42.5	85.1	35 - 160
Carbon tetrachloride	50.00	61.1	122	65 - 140
Chlorobenzene	50.00	48.1	96.2	80 - 120
Chloroethane	50.00	46.9	93.8	60 - 135
Chloroform	50.00	49.6	99.2	65 - 135
Chloromethane	50.00	43.6	87.3	40 - 125
2-Chlorotoluene	50.00	42.7	85.4	75 - 125
4-Chlorotoluene	50.00	42.8	85.7	75 - 130
Dibromochloromethane	50.00	52.8	106	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.0	98.1	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.5	101	80 - 120
Dibromomethane	50.00	53.3	107	75 - 125
1,2-Dichlorobenzene	50.00	47.9	95.7	70 - 120
1,3-Dichlorobenzene	50.00	46.0	92.0	75 - 125
1,4-Dichlorobenzene	50.00	47.2	94.4	75 - 125
Dichlorodifluoromethane	50.00	56.7	113	30 - 155
1,1-Dichloroethane	50.00	50.2	100	70 - 135
1,2-Dichloroethane	50.00	55.8	112	70 - 130
1,1-Dichloroethene	50.00	45.2	90.5	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G24004	Laboratory ID:	2G24004-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	49.4	98.9	60 - 140
1,2-Dichloropropane	50.00	48.3	96.7	75 - 125
1,3-Dichloropropane	50.00	46.8	93.6	75 - 125
2,2-Dichloropropane	50.00	56.3	113	70 - 135
1,1-Dichloropropene	50.00	50.7	101	75 - 130
cis-1,3-Dichloropropene	50.00	54.7	109	70 - 130
trans-1,3-Dichloropropene	50.00	48.2	96.3	55 - 140
Ethylbenzene	50.00	46.0	92.0	75 - 125
Hexachlorobutadiene	50.00	42.3	84.7	50 - 140
2-Hexanone	100.0	97.8	97.8	55 - 130
Isopropylbenzene	50.00	47.3	94.5	75 - 125
p-Isopropyltoluene	50.00	45.5	91.1	75 - 130
Methylene chloride	50.00	45.2	90.4	55 - 140
Naphthalene	50.00	48.7	97.5	55 - 140
4-Methyl-2-pentanone	100.0	108	108	60 - 135
Methyl t-Butyl Ether	50.00	52.5	105	65 - 125
n-Propylbenzene	50.00	41.9	83.7	70 - 130
Styrene	50.00	47.8	95.6	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.0	80.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.1	110	80 - 130
Tetrachloroethene	50.00	48.7	97.4	45 - 150
Toluene	50.00	45.7	91.3	75 - 120
1,2,3-Trichlorobenzene	50.00	48.8	97.7	55 - 140
1,2,4-Trichlorobenzene	50.00	47.4	94.8	65 - 135
1,1,2-Trichloroethane	50.00	48.4	96.8	75 - 125
1,1,1-Trichloroethane	50.00	56.7	113	65 - 130
Trichloroethene	50.00	53.1	106	70 - 125
Trichlorofluoromethane	50.00	54.3	109	60 - 145
1,2,3-Trichloropropane	50.00	54.2	108	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G24004	Laboratory ID:	2G24004-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	47.3	94.7	75 - 130
1,2,4-Trimethylbenzene	50.00	46.6	93.2	75 - 130
Vinyl chloride	50.00	48.8	97.6	50 - 145
Xylenes (total)	150.0	141	93.9	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23013

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	108	108		40 - 140
Benzene	50.00	ND	54.1	108		80 - 120
Bromobenzene	50.00	ND	49.0	98.1		75 - 125
Bromochloromethane	50.00	ND	65.2	130		65 - 130
Bromodichloromethane	50.00	ND	59.8	120		75 - 120
Bromoform	50.00	ND	61.4	123		70 - 130
Bromomethane	50.00	ND	47.5	95.0		30 - 145
n-Butylbenzene	50.00	ND	46.1	92.3		70 - 135
2-Butanone	100.0	ND	103	103		30 - 150
sec-Butylbenzene	50.00	ND	48.2	96.5		70 - 125
tert-Butylbenzene	50.00	ND	49.7	99.5		70 - 130
Carbon disulfide	50.00	ND	49.0	97.9		35 - 160
Carbon tetrachloride	50.00	ND	72.9	146	*	65 - 140
Chlorobenzene	50.00	ND	52.6	105		80 - 120
Chloroethane	50.00	ND	54.8	110		60 - 135
Chloroform	50.00	ND	55.9	112		65 - 135
Chloromethane	50.00	ND	51.5	103		40 - 125
2-Chlorotoluene	50.00	ND	44.9	89.7		75 - 125
4-Chlorotoluene	50.00	ND	45.5	91.0		75 - 130
Dibromochloromethane	50.00	ND	59.4	119		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	49.9	99.8		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	54.0	108		80 - 120
Dibromomethane	50.00	ND	58.6	117		75 - 125
1,2-Dichlorobenzene	50.00	ND	49.6	99.2		70 - 120
1,3-Dichlorobenzene	50.00	ND	48.7	97.4		75 - 125
1,4-Dichlorobenzene	50.00	ND	50.5	101		75 - 125
Dichlorodifluoromethane	50.00	ND	71.0	142		30 - 155
1,1-Dichloroethane	50.00	ND	54.4	109		70 - 135
1,2-Dichloroethane	50.00	ND	62.4	125		70 - 130
1,1-Dichloroethene	50.00	ND	51.4	103		70 - 130
cis-1,2-Dichloroethene	50.00	ND	57.6	115		70 - 125
trans-1,2-Dichloroethene	50.00	ND	56.4	113		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23013

% Solids:

Source Sample Name: **1207102-13**

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	54.5	109		75 - 125
1,3-Dichloropropane	50.00	ND	50.6	101		75 - 125
2,2-Dichloropropane	50.00	ND	57.3	115		70 - 135
1,1-Dichloropropene	50.00	ND	56.6	113		75 - 130
cis-1,3-Dichloropropene	50.00	ND	58.0	116		70 - 130
trans-1,3-Dichloropropene	50.00	ND	50.6	101		55 - 140
Ethylbenzene	50.00	ND	52.3	105		75 - 125
Hexachlorobutadiene	50.00	ND	44.2	88.5		50 - 140
2-Hexanone	100.0	ND	105	105		55 - 130
Isopropylbenzene	50.00	ND	53.4	107		75 - 125
p-Isopropyltoluene	50.00	ND	48.4	96.8		75 - 130
Methylene chloride	50.00	ND	51.2	102		55 - 140
Naphthalene	50.00	ND	49.8	99.6		55 - 140
4-Methyl-2-pentanone	100.0	ND	113	113		60 - 135
Methyl t-Butyl Ether	50.00	ND	55.8	112		65 - 125
n-Propylbenzene	50.00	ND	44.0	88.0		70 - 130
Styrene	50.00	ND	53.4	107		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	41.6	83.2		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	60.8	122		80 - 130
Tetrachloroethene	50.00	ND	54.2	108		45 - 150
Toluene	50.00	ND	51.1	102		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	48.8	97.6		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	47.8	95.6		65 - 135
1,1,2-Trichloroethane	50.00	ND	53.2	106		75 - 125
1,1,1-Trichloroethane	50.00	ND	68.0	136	*	65 - 130
Trichloroethene	50.00	ND	59.3	119		70 - 125
Trichlorofluoromethane	50.00	ND	67.4	135		60 - 145
1,2,3-Trichloropropane	50.00	ND	59.8	120		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	51.3	103		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	49.8	99.6		75 - 130
Vinyl chloride	50.00	ND	59.2	118		50 - 145
Xylenes (total)	150.0	ND	159	106		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23013

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	94.5	94.5	12.9		30	40 - 140
Benzene	50.00	52.6	105	2.85		30	80 - 120
Bromobenzene	50.00	49.0	97.9	0.143		30	75 - 125
Bromochloromethane	50.00	63.7	127	2.36		30	65 - 130
Bromodichloromethane	50.00	57.5	115	3.92		30	75 - 120
Bromoform	50.00	62.0	124	0.989		30	70 - 130
Bromomethane	50.00	49.8	99.6	4.73		30	30 - 145
n-Butylbenzene	50.00	45.7	91.4	0.893		30	70 - 135
2-Butanone	100.0	93.0	93.0	9.82		30	30 - 150
sec-Butylbenzene	50.00	48.4	96.9	0.414		30	70 - 125
tert-Butylbenzene	50.00	49.7	99.5	0.0201		30	70 - 130
Carbon disulfide	50.00	48.0	95.9	2.06		30	35 - 160
Carbon tetrachloride	50.00	69.7	139	4.50		30	65 - 140
Chlorobenzene	50.00	52.7	105	0.114		30	80 - 120
Chloroethane	50.00	54.5	109	0.604		30	60 - 135
Chloroform	50.00	56.1	112	0.446		30	65 - 135
Chloromethane	50.00	52.1	104	1.22		30	40 - 125
2-Chlorotoluene	50.00	45.4	90.8	1.22		30	75 - 125
4-Chlorotoluene	50.00	45.3	90.6	0.397		30	75 - 130
Dibromochloromethane	50.00	59.6	119	0.370		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.9	104	3.87		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.8	112	3.11		30	80 - 120
Dibromomethane	50.00	58.5	117	0.290		30	75 - 125
1,2-Dichlorobenzene	50.00	49.7	99.4	0.181		30	70 - 120
1,3-Dichlorobenzene	50.00	49.1	98.2	0.797		30	75 - 125
1,4-Dichlorobenzene	50.00	50.4	101	0.178		30	75 - 125
Dichlorodifluoromethane	50.00	70.6	141	0.565		30	30 - 155
1,1-Dichloroethane	50.00	54.1	108	0.498		30	70 - 135
1,2-Dichloroethane	50.00	61.1	122	2.14		30	70 - 130
1,1-Dichloroethene	50.00	50.0	99.9	2.82		30	70 - 130
cis-1,2-Dichloroethene	50.00	56.2	112	2.53		30	70 - 125
trans-1,2-Dichloroethene	50.00	55.3	111	1.90		30	60 - 140
1,2-Dichloropropane	50.00	54.8	110	0.476		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23013

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	52.0	104	2.77		30	75 - 125
2,2-Dichloropropane	50.00	53.8	108	6.32		30	70 - 135
1,1-Dichloropropene	50.00	55.8	112	1.48		30	75 - 130
cis-1,3-Dichloropropene	50.00	58.3	117	0.464		30	70 - 130
trans-1,3-Dichloropropene	50.00	51.9	104	2.65		30	55 - 140
Ethylbenzene	50.00	53.0	106	1.27		30	75 - 125
Hexachlorobutadiene	50.00	44.0	87.9	0.612		30	50 - 140
2-Hexanone	100.0	94.4	94.4	10.2		30	55 - 130
Isopropylbenzene	50.00	51.9	104	2.70		30	75 - 125
p-Isopropyltoluene	50.00	47.9	95.9	0.934		30	75 - 130
Methylene chloride	50.00	49.8	99.7	2.65		30	55 - 140
Naphthalene	50.00	51.3	103	3.01		30	55 - 140
4-Methyl-2-pentanone	100.0	101	101	10.6		30	60 - 135
Methyl t-Butyl Ether	50.00	57.1	114	2.34		30	65 - 125
n-Propylbenzene	50.00	45.0	90.1	2.29		30	70 - 130
Styrene	50.00	54.2	108	1.38		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.1	86.2	3.61		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	61.2	122	0.688		30	80 - 130
Tetrachloroethene	50.00	54.8	110	0.954		30	45 - 150
Toluene	50.00	49.9	99.9	2.37		30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.9	99.9	2.33		30	55 - 140
1,2,4-Trichlorobenzene	50.00	49.0	98.0	2.48		30	65 - 135
1,1,2-Trichloroethane	50.00	54.7	109	2.76		30	75 - 125
1,1,1-Trichloroethane	50.00	65.4	131	3.82	*	30	65 - 130
Trichloroethene	50.00	58.8	118	0.881		30	70 - 125
Trichlorofluoromethane	50.00	64.7	129	4.00		30	60 - 145
1,2,3-Trichloropropane	50.00	60.8	122	1.76		30	75 - 125
1,3,5-Trimethylbenzene	50.00	50.8	102	1.02		30	75 - 130
1,2,4-Trimethylbenzene	50.00	49.0	98.0	1.54		30	75 - 130
Vinyl chloride	50.00	58.1	116	1.79		30	50 - 145
Xylenes (total)	150.0	158	105	0.506		30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G23013 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/23/12 00:00	5.00	5.00
GW0656	1207102-03	07/23/12 00:00	5.00	5.00
GW0657	1207102-05	07/23/12 00:00	5.00	5.00
GW0685	1207102-07	07/23/12 00:00	5.00	5.00
GW0686	1207102-09	07/23/12 00:00	5.00	5.00
GW0737	1207102-11	07/23/12 00:00	5.00	5.00
GW0738	1207102-13	07/23/12 00:00	5.00	5.00
GW0739	1207102-15	07/23/12 00:00	5.00	5.00
GW0743	1207102-17	07/23/12 00:00	5.00	5.00
GW0744	1207102-19	07/23/12 00:00	5.00	5.00
GW0745	1207102-21	07/23/12 00:00	5.00	5.00
GW0746	1207102-23	07/23/12 00:00	5.00	5.00
GW8056-AB	1207102-25	07/23/12 00:00	5.00	5.00
GW8214-TB	1207102-26	07/23/12 00:00	5.00	5.00
Blank	2G23013-BLK1	07/23/12 00:00	5.00	5.00
LCS	2G23013-BS1	07/23/12 00:00	5.00	5.00
GW0738	2G23013-MS1	07/23/12 00:00	5.00	5.00
GW0738	2G23013-MSD1	07/23/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G24004 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0629	1207107-01	07/24/12 00:00	5.00	5.00
GW0643	1207107-03	07/24/12 00:00	5.00	5.00
GW0653	1207107-05	07/24/12 00:00	5.00	5.00
GW0654	1207107-07	07/24/12 00:00	5.00	5.00
GW0730	1207107-09	07/24/12 00:00	5.00	5.00
GW0732	1207107-11	07/24/12 00:00	5.00	5.00
GW8215-TB	1207107-13	07/24/12 00:00	5.00	5.00
Blank	2G24004-BLK1	07/24/12 00:00	5.00	5.00
LCS	2G24004-BS1	07/24/12 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	07/23/12
Instrument ID:	MS-VOA3	Injection Time:	07:15
Sequence:	2G20603	Lab Sample ID:	2G20603-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.8	PASS
75	30 - 60% of 95	44.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.49	PASS
173	Less than 2% of 174	0.282	PASS
174	50 - 200% of 95	98.6	PASS
175	5 - 9% of 174	7.28	PASS
176	95 - 101% of 174	98.4	PASS
177	5 - 9% of 176	6.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	07/24/12
Instrument ID:	MS-VOA3	Injection Time:	09:38
Sequence:	2G20706	Lab Sample ID:	2G20706-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.1	PASS
75	30 - 60% of 95	45.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.59	PASS
173	Less than 2% of 174	0.18	PASS
174	50 - 200% of 95	97.4	PASS
175	5 - 9% of 174	7.56	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	7.02	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
Calibration:	2191002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G20603-TUN1	SEQTUN1.D	07/23/12 07:15
Calibration Check	2G20603-CCV1	SEQCCV2.D	07/23/12 08:13
LCS	2G23013-BS1	0723LCS1.D	07/23/12 08:42
Blank	2G23013-BLK1	0723BLK1.D	07/23/12 10:08
GW8056-AB	1207102-25	0710225.D	07/23/12 10:37
GW8214-TB	1207102-26	0710226.D	07/23/12 11:06
GW0655	1207102-01	0710201.D	07/23/12 12:03
GW0656	1207102-03	0710203.D	07/23/12 12:32
GW0657	1207102-05	0710205.D	07/23/12 13:00
GW0685	1207102-07	0710207.D	07/23/12 13:29
GW0686	1207102-09	0710209.D	07/23/12 13:58
GW0737	1207102-11	0710211.D	07/23/12 14:26
GW0738	1207102-13	0710213.D	07/23/12 14:55
GW0739	1207102-15	0710215.D	07/23/12 15:24
GW0743	1207102-17	0710217.D	07/23/12 15:52
GW0744	1207102-19	0710219.D	07/23/12 16:21
GW0745	1207102-21	0710221.D	07/23/12 16:50
GW0746	1207102-23	0710223.D	07/23/12 17:18
GW0738	2G23013-MS1	0710213M.D	07/23/12 17:47
GW0738	2G23013-MSD1	0710213S.D	07/23/12 18:16

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20706	Instrument:	MS-VOA3
Calibration:	2191002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G20706-TUN1	SEQTUN1.D	07/24/12 09:38
Calibration Check	2G20706-CCV1	SEQCCV2.D	07/24/12 10:07
LCS	2G24004-BS1	0724LCS1.D	07/24/12 10:36
Blank	2G24004-BLK1	0724BLK1.D	07/24/12 12:02
GW8215-TB	1207107-13	0710713.D	07/24/12 13:28
GW0629	1207107-01	0710701.D	07/24/12 15:51
GW0643	1207107-03	0710703.D	07/24/12 16:20
GW0653	1207107-05	0710705.D	07/24/12 16:48
GW0654	1207107-07	0710707.D	07/24/12 17:17
GW0730	1207107-09	0710709.D	07/24/12 17:45
GW0732	1207107-11	0710711.D	07/24/12 18:14

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G20603-CCV1)			Lab File ID: SEQCCV2.D			Analyzed: 07/23/12 08:13			
Fluorobenzene	319413	7.767	330232	7.767	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	141868	10.912	132381	10.912	107	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	201546	13.322	171372	13.322	118	50 - 200	0.0000	+/-0.50	
LCS (2G23013-BS1)			Lab File ID: 0723LCS1.D			Analyzed: 07/23/12 08:42			
Fluorobenzene	322790	7.767	319413	7.767	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	141113	10.912	141868	10.912	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	203574	13.321	201546	13.322	101	50 - 200	-0.0010	+/-0.50	
Blank (2G23013-BLK1)			Lab File ID: 0723BLK1.D			Analyzed: 07/23/12 10:08			
Fluorobenzene	288050	7.767	319413	7.767	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	123721	10.912	141868	10.912	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	176916	13.322	201546	13.322	88	50 - 200	0.0000	+/-0.50	
GW8056-AB (1207102-25)			Lab File ID: 0710225.D			Analyzed: 07/23/12 10:37			
Fluorobenzene	291142	7.767	319413	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	127093	10.912	141868	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	177303	13.321	201546	13.322	88	50 - 200	-0.0010	+/-0.50	
GW8214-TB (1207102-26)			Lab File ID: 0710226.D			Analyzed: 07/23/12 11:06			
Fluorobenzene	284276	7.767	319413	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	126374	10.912	141868	10.912	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	172702	13.321	201546	13.322	86	50 - 200	-0.0010	+/-0.50	
GW0655 (1207102-01)			Lab File ID: 0710201.D			Analyzed: 07/23/12 12:03			
Fluorobenzene	292219	7.767	319413	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	121400	10.912	141868	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	174444	13.322	201546	13.322	87	50 - 200	0.0000	+/-0.50	
GW0656 (1207102-03)			Lab File ID: 0710203.D			Analyzed: 07/23/12 12:32			
Fluorobenzene	285478	7.767	319413	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	124454	10.912	141868	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	174783	13.322	201546	13.322	87	50 - 200	0.0000	+/-0.50	
GW0657 (1207102-05)			Lab File ID: 0710205.D			Analyzed: 07/23/12 13:00			
Fluorobenzene	289773	7.767	319413	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	124942	10.912	141868	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	177323	13.321	201546	13.322	88	50 - 200	-0.0010	+/-0.50	
GW0685 (1207102-07)			Lab File ID: 0710207.D			Analyzed: 07/23/12 13:29			
Fluorobenzene	287250	7.767	319413	7.767	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	125455	10.912	141868	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	170701	13.321	201546	13.322	85	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0686 (1207102-09)			Lab File ID: 0710209.D			Analyzed: 07/23/12 13:58			
Fluorobenzene	283610	7.767	319413	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	121568	10.912	141868	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	174605	13.321	201546	13.322	87	50 - 200	-0.0010	+/-0.50	
GW0737 (1207102-11)			Lab File ID: 0710211.D			Analyzed: 07/23/12 14:26			
Fluorobenzene	283620	7.767	319413	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	125705	10.912	141868	10.912	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	172034	13.321	201546	13.322	85	50 - 200	-0.0010	+/-0.50	
GW0738 (1207102-13)			Lab File ID: 0710213.D			Analyzed: 07/23/12 14:55			
Fluorobenzene	279232	7.767	319413	7.767	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	123284	10.912	141868	10.912	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	170258	13.321	201546	13.322	84	50 - 200	-0.0010	+/-0.50	
GW0739 (1207102-15)			Lab File ID: 0710215.D			Analyzed: 07/23/12 15:24			
Fluorobenzene	284321	7.767	319413	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	124627	10.912	141868	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	174343	13.321	201546	13.322	87	50 - 200	-0.0010	+/-0.50	
GW0743 (1207102-17)			Lab File ID: 0710217.D			Analyzed: 07/23/12 15:52			
Fluorobenzene	282627	7.767	319413	7.767	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	126234	10.912	141868	10.912	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	176217	13.321	201546	13.322	87	50 - 200	-0.0010	+/-0.50	
GW0744 (1207102-19)			Lab File ID: 0710219.D			Analyzed: 07/23/12 16:21			
Fluorobenzene	282892	7.767	319413	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	122598	10.912	141868	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	174378	13.322	201546	13.322	87	50 - 200	0.0000	+/-0.50	
GW0745 (1207102-21)			Lab File ID: 0710221.D			Analyzed: 07/23/12 16:50			
Fluorobenzene	280867	7.767	319413	7.767	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	122965	10.912	141868	10.912	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	173676	13.322	201546	13.322	86	50 - 200	0.0000	+/-0.50	
GW0746 (1207102-23)			Lab File ID: 0710223.D			Analyzed: 07/23/12 17:18			
Fluorobenzene	277837	7.767	319413	7.767	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	121438	10.912	141868	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	170158	13.322	201546	13.322	84	50 - 200	0.0000	+/-0.50	
Matrix Spike (2G23013-MS1)			Lab File ID: 0710213M.D			Analyzed: 07/23/12 17:47			
Fluorobenzene	294431	7.767	319413	7.767	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	130962	10.912	141868	10.912	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	196277	13.321	201546	13.322	97	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20603	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (2G23013-MSD1)			Lab File ID: 0710213S.D			Analyzed: 07/23/12 18:16			
Fluorobenzene	304230	7.767	319413	7.767	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	132365	10.912	141868	10.912	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	199170	13.322	201546	13.322	99	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20706	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G20706-CCV1)			Lab File ID: SEQCCV2.D			Analyzed: 07/24/12 10:07			
Fluorobenzene	367233	7.767	330232	7.767	111	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	162116	10.912	132381	10.912	122	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	231308	13.321	171372	13.322	135	50 - 200	-0.0010	+/-0.50	
LCS (2G24004-BS1)			Lab File ID: 0724LCS1.D			Analyzed: 07/24/12 10:36			
Fluorobenzene	371383	7.767	367233	7.767	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	163485	10.912	162116	10.912	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	234326	13.321	231308	13.321	101	50 - 200	0.0000	+/-0.50	
Blank (2G24004-BLK1)			Lab File ID: 0724BLK1.D			Analyzed: 07/24/12 12:02			
Fluorobenzene	344654	7.767	367233	7.767	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	144530	10.912	162116	10.912	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	213267	13.322	231308	13.321	92	50 - 200	0.0010	+/-0.50	
GW8215-TB (1207107-13)			Lab File ID: 0710713.D			Analyzed: 07/24/12 13:28			
Fluorobenzene	337989	7.767	367233	7.767	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	146209	10.912	162116	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	205874	13.321	231308	13.321	89	50 - 200	0.0000	+/-0.50	
GW0629 (1207107-01)			Lab File ID: 0710701.D			Analyzed: 07/24/12 15:51			
Fluorobenzene	334883	7.767	367233	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	144677	10.912	162116	10.912	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	203266	13.322	231308	13.321	88	50 - 200	0.0010	+/-0.50	
GW0643 (1207107-03)			Lab File ID: 0710703.D			Analyzed: 07/24/12 16:20			
Fluorobenzene	330672	7.767	367233	7.767	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	145332	10.912	162116	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	196478	13.321	231308	13.321	85	50 - 200	0.0000	+/-0.50	
GW0653 (1207107-05)			Lab File ID: 0710705.D			Analyzed: 07/24/12 16:48			
Fluorobenzene	333566	7.767	367233	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	139626	10.912	162116	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	204868	13.321	231308	13.321	89	50 - 200	0.0000	+/-0.50	
GW0654 (1207107-07)			Lab File ID: 0710707.D			Analyzed: 07/24/12 17:17			
Fluorobenzene	328611	7.767	367233	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	144459	10.912	162116	10.912	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	200999	13.321	231308	13.321	87	50 - 200	0.0000	+/-0.50	
GW0730 (1207107-09)			Lab File ID: 0710709.D			Analyzed: 07/24/12 17:45			
Fluorobenzene	332775	7.767	367233	7.767	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	142990	10.912	162116	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	200935	13.322	231308	13.321	87	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20706	Instrument:	MS-VOA3
		Calibration:	2191002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0732 (1207107-11)			Lab File ID: 0710711.D			Analyzed: 07/24/12 18:14			
Fluorobenzene	326478	7.767	367233	7.767	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	139979	10.912	162116	10.912	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	203290	13.321	231308	13.321	88	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057

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_057
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_057
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_057
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_057
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_057
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_057		
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_057
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_057
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_057
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_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G20603	Injection Date:	07/23/12
Lab Sample ID:	2G20603-CCV1	Injection Time:	08:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	214.4	5.530587E-02	5.928422E-02		7.2	20
Benzene	A	100.0	95.54	0.9831972	0.9393271		-4.5	20
Bromobenzene	A	100.0	95.09	0.7522503	0.7152839		-4.9	20
Bromochloromethane	A	100.0	115.7	0.1556926	0.1800781		15.7	20
Bromodichloromethane	A	100.0	111.6	0.3595313	0.4013384		11.6	20
Bromoform	A	100.0	113.1	0.5837936	0.6602419	0.1	13.1	20
Bromomethane	Q	100.0	90.74	0.1996656	0.1501367		-9.3	20
n-Butylbenzene	A	100.0	85.27	1.565417	1.334764		-14.7	20
2-Butanone	A	200.0	210.3	9.119319E-02	0.0959064		5.2	20
sec-Butylbenzene	A	100.0	89.70	2.198564	1.972213		-10.3	20
tert-Butylbenzene	A	100.0	95.91	1.870394	1.793914		-4.1	20
Carbon disulfide	A	100.0	96.81	0.6341814	0.6139775		-3.2	20
Carbon tetrachloride	A	100.0	119.6	0.3561029	0.4260944		19.7	20
Chlorobenzene	A	100.0	95.46	2.004086	1.913061	0.3	-4.5	20
Chloroethane	A	100.0	89.15	0.1409348	0.1256474		-10.8	20
Chloroform	A	100.0	101.6	0.4696998	0.4770266		1.6	20
Chloromethane	A	100.0	91.84	0.1898294	0.1743376	0.1	-8.2	20
2-Chlorotoluene	A	100.0	86.53	1.673694	1.448273		-13.5	20
4-Chlorotoluene	A	100.0	86.39	1.94579	1.680943		-13.6	20
Dibromochloromethane	A	100.0	110.4	0.8224596	0.9078242		10.4	20
1,2-Dibromo-3-chloropropane	A	100.0	100.5	0.1724626	0.1733708		0.5	20
1,2-Dibromoethane (EDB)	A	100.0	100.6	0.6747029	0.679058		0.6	20
Dibromomethane	A	100.0	107.5	0.1628825	0.1751087		7.5	20
1,2-Dichlorobenzene	A	100.0	95.90	1.323766	1.269498		-4.1	20
1,3-Dichlorobenzene	A	100.0	96.36	1.370489	1.320575		-3.6	20
1,4-Dichlorobenzene	A	100.0	94.66	1.406356	1.331199		-5.3	20
Dichlorodifluoromethane	A	100.0	126.3	0.1652651	0.2086643		26.3	20 *
1,1-Dichloroethane	A	100.0	96.99	0.4133347	0.4008819	0.1	-3.0	20
1,2-Dichloroethane	A	100.0	113.1	0.3263342	0.3691465		13.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G20603	Injection Date:	07/23/12
Lab Sample ID:	2G20603-CCV1	Injection Time:	08:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	96.10	0.2314039	0.2223901		-3.9	20
cis-1,2-Dichloroethene	A	100.0	102.1	0.2824668	0.2884222		2.1	20
trans-1,2-Dichloroethene	A	100.0	97.85	0.2652162	0.2595129		-2.2	20
1,2-Dichloropropane	A	100.0	96.87	0.228004	0.2208564		-3.1	20
1,3-Dichloropropane	A	100.0	91.09	0.9974605	0.9086108		-8.9	20
2,2-Dichloropropane	A	100.0	113.0	0.3337017	0.3769815		13.0	20
1,1-Dichloropropene	A	100.0	100.6	0.3349127	0.3367997		0.6	20
cis-1,3-Dichloropropene	A	100.0	106.6	0.3889946	0.4145448		6.6	20
trans-1,3-Dichloropropene	A	100.0	93.01	1.003469	0.9333394		-7.0	20
Ethylbenzene	A	100.0	93.33	3.094414	2.887913		-6.7	20
Hexachlorobutadiene	A	100.0	86.78	0.3176563	0.2756527		-13.2	20
2-Hexanone	A	200.0	206.2	0.3224331	0.332465		3.1	20
Isopropylbenzene	A	100.0	98.63	2.77148	2.733416		-1.4	20
p-Isopropyltoluene	A	100.0	93.28	2.015086	1.879712		-6.7	20
Methylene chloride	A	100.0	92.05	0.2677359	0.2464549		-7.9	20
Naphthalene	A	100.0	99.13	2.229654	2.210257		-0.9	20
4-Methyl-2-pentanone	A	200.0	230.9	0.1868854	0.2157334		15.4	20
Methyl t-Butyl Ether	A	100.0	107.7	0.6021086	0.6483277		7.7	20
n-Propylbenzene	A	100.0	84.11	2.608992	2.194308		-15.9	20
Styrene	A	100.0	100.3	2.199079	2.206073		0.3	20
1,1,2,2-Tetrachloroethane	A	100.0	81.81	0.6233107	0.5099402	0.3	-18.2	20
1,1,1,2-Tetrachloroethane	A	100.0	108.9	0.7475932	0.8143464		8.9	20
Tetrachloroethene	A	100.0	98.64	0.8245587	0.813306		-1.4	20
Toluene	A	100.0	89.15	1.671702	1.490366		-10.8	20
1,2,3-Trichlorobenzene	A	100.0	97.41	0.7755599	0.7554672		-2.6	20
1,2,4-Trichlorobenzene	A	100.0	94.97	0.8396013	0.7973877		-5.0	20
1,1,2-Trichloroethane	A	100.0	97.21	0.4532266	0.4405687		-2.8	20
1,1,1-Trichloroethane	A	100.0	111.4	0.3928422	0.4375191		11.4	20
Trichloroethene	A	100.0	105.7	0.2602307	0.2750608		5.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G20603	Injection Date:	07/23/12
Lab Sample ID:	2G20603-CCV1	Injection Time:	08:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	107.2	0.3632165	0.3892684		7.2	20
1,2,3-Trichloropropane	A	100.0	108.9	0.2649827	0.2885323		8.9	20
1,3,5-Trimethylbenzene	A	100.0	93.08	1.91207	1.779661		-6.9	20
1,2,4-Trimethylbenzene	A	100.0	93.22	2.030273	1.892537		-6.8	20
Vinyl chloride	A	100.0	92.05	0.2085933	0.1920072		-8.0	20
Xylenes (total)	A	300.0	281.4	2.448813	2.297435		-6.2	20
Bromofluorobenzene	A	30.00	31.87	0.9537421	1.013188		6.2	20
Dibromofluoromethane	A	30.00	32.35	0.2703419	0.2915223		7.8	20
1,2-Dichloroethane-d4	A	30.00	31.04	6.873084E-02	7.112422E-02		3.5	20
Toluene-d8	A	30.00	28.73	2.407491	2.305516		-4.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G20706	Injection Date:	07/24/12
Lab Sample ID:	2G20706-CCV1	Injection Time:	10:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	211.1	5.530587E-02	0.0583669		5.5	20	
Benzene	A	100.0	97.72	0.9831972	0.9608025		-2.3	20	
Bromobenzene	A	100.0	96.36	0.7522503	0.7248621		-3.6	20	
Bromochloromethane	A	100.0	119.2	0.1556926	0.1855928		19.2	20	
Bromodichloromethane	A	100.0	114.1	0.3595313	0.4102344		14.1	20	
Bromoform	A	100.0	117.7	0.5837936	0.6872042	0.1	17.7	20	
Bromomethane	Q	100.0	91.84	0.1996656	0.1519994		-8.2	20	
n-Butylbenzene	A	100.0	91.92	1.565417	1.438964		-8.1	20	
2-Butanone	A	200.0	210.9	9.119319E-02	9.615598E-02		5.4	20	
sec-Butylbenzene	A	100.0	95.71	2.198564	2.104331		-4.3	20	
tert-Butylbenzene	A	100.0	97.89	1.870394	1.830896		-2.1	20	
Carbon disulfide	A	100.0	100.3	0.6341814	0.6362672		0.3	20	
Carbon tetrachloride	A	100.0	129.2	0.3561029	0.4599807		29.2	20	*
Chlorobenzene	A	100.0	100.6	2.004086	2.016084	0.3	0.6	20	
Chloroethane	A	100.0	92.38	0.1409348	0.1301983		-7.6	20	
Chloroform	A	100.0	104.2	0.4696998	0.4895924		4.2	20	
Chloromethane	A	100.0	96.53	0.1898294	0.1832442	0.1	-3.5	20	
2-Chlorotoluene	A	100.0	90.06	1.673694	1.507305		-9.9	20	
4-Chlorotoluene	A	100.0	90.40	1.94579	1.758899		-9.6	20	
Dibromochloromethane	A	100.0	111.5	0.8224596	0.9172876		11.5	20	
1,2-Dibromo-3-chloropropane	A	100.0	102.6	0.1724626	0.1769135		2.6	20	
1,2-Dibromoethane (EDB)	A	100.0	103.0	0.6747029	0.6947914		3.0	20	
Dibromomethane	A	100.0	111.1	0.1628825	0.1809797		11.1	20	
1,2-Dichlorobenzene	A	100.0	101.1	1.323766	1.338517		1.1	20	
1,3-Dichlorobenzene	A	100.0	99.63	1.370489	1.365461		-0.4	20	
1,4-Dichlorobenzene	A	100.0	96.56	1.406356	1.357983		-3.4	20	
Dichlorodifluoromethane	A	100.0	132.7	0.1652651	0.2193283		32.7	20	*
1,1-Dichloroethane	A	100.0	100.3	0.4133347	0.414493	0.1	0.3	20	
1,2-Dichloroethane	A	100.0	115.8	0.3263342	0.3779039		15.8	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G20706	Injection Date:	07/24/12
Lab Sample ID:	2G20706-CCV1	Injection Time:	10:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	98.97	0.2314039	0.2290268		-1.0	20
cis-1,2-Dichloroethene	A	100.0	103.5	0.2824668	0.2924296		3.5	20
trans-1,2-Dichloroethene	A	100.0	100.7	0.2652162	0.2670773		0.7	20
1,2-Dichloropropane	A	100.0	100.6	0.228004	0.2294663		0.6	20
1,3-Dichloropropane	A	100.0	94.91	0.9974605	0.946674		-5.1	20
2,2-Dichloropropane	A	100.0	118.3	0.3337017	0.3946426		18.3	20
1,1-Dichloropropene	A	100.0	103.8	0.3349127	0.3475905		3.8	20
cis-1,3-Dichloropropene	A	100.0	108.9	0.3889946	0.4236384		8.9	20
trans-1,3-Dichloropropene	A	100.0	95.63	1.003469	0.9596462		-4.4	20
Ethylbenzene	A	100.0	97.07	3.094414	3.003733		-2.9	20
Hexachlorobutadiene	A	100.0	88.74	0.3176563	0.2818982		-11.3	20
2-Hexanone	A	200.0	207.7	0.3224331	0.3348574		3.9	20
Isopropylbenzene	A	100.0	105.8	2.77148	2.932106		5.8	20
p-Isopropyltoluene	A	100.0	98.24	2.015086	1.979612		-1.8	20
Methylene chloride	A	100.0	91.68	0.2677359	0.24546		-8.3	20
Naphthalene	A	100.0	105.0	2.229654	2.340437		5.0	20
4-Methyl-2-pentanone	A	200.0	229.7	0.1868854	0.2146331		14.8	20
Methyl t-Butyl Ether	A	100.0	106.1	0.6021086	0.6390937		6.1	20
n-Propylbenzene	A	100.0	89.59	2.608992	2.337433		-10.4	20
Styrene	A	100.0	103.9	2.199079	2.28519		3.9	20
1,1,2,2-Tetrachloroethane	A	100.0	82.61	0.6233107	0.5149394	0.3	-17.4	20
1,1,1,2-Tetrachloroethane	A	100.0	114.1	0.7475932	0.8531946		14.1	20
Tetrachloroethene	A	100.0	102.1	0.8245587	0.8418046		2.1	20
Toluene	A	100.0	92.39	1.671702	1.544422		-7.6	20
1,2,3-Trichlorobenzene	A	100.0	100.3	0.7755599	0.7782104		0.3	20
1,2,4-Trichlorobenzene	A	100.0	99.86	0.8396013	0.8384626		-0.1	20
1,1,2-Trichloroethane	A	100.0	94.83	0.4532266	0.4297848		-5.2	20
1,1,1-Trichloroethane	A	100.0	117.0	0.3928422	0.4596049		17.0	20
Trichloroethene	A	100.0	107.4	0.2602307	0.279519		7.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2191002
Lab File ID:	SEQCCV2.D	Calibration Date:	07/05/12 08:34
Sequence:	2G20706	Injection Date:	07/24/12
Lab Sample ID:	2G20706-CCV1	Injection Time:	10:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	113.3	0.3632165	0.4116689		13.3	20
1,2,3-Trichloropropane	A	100.0	110.5	0.2649827	0.2928163		10.5	20
1,3,5-Trimethylbenzene	A	100.0	96.22	1.91207	1.839843		-3.8	20
1,2,4-Trimethylbenzene	A	100.0	96.81	2.030273	1.965584		-3.2	20
Vinyl chloride	A	100.0	95.66	0.2085933	0.1995499		-4.3	20
Xylenes (total)	A	300.0	297.9	2.448813	2.431743		-0.7	20
Bromofluorobenzene	A	30.00	31.61	0.9537421	1.004861		5.4	20
Dibromofluoromethane	A	30.00	32.03	0.2703419	0.2886124		6.8	20
1,2-Dichloroethane-d4	A	30.00	31.32	6.873084E-02	7.176643E-02		4.4	20
Toluene-d8	A	30.00	29.20	2.407491	2.343581		-2.7	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_057

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

Matrix: Laboratory ID: 2G23013-BLK1 File ID: 0723BLK1.D

Sampled: Prepared: Analyzed: 07/23/12 10:08

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 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_057

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

Matrix: Laboratory ID: 2G23013-BLK1 File ID: 0723BLK1.D

Sampled: Prepared: Analyzed: 07/23/12 10:08

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 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	30.98	103	75 - 120	
Dibromofluoromethane	30.00	34.38	115	85 - 115	
1,2-Dichloroethane-d4	30.00	32.97	110	70 - 120	
Toluene-d8	30.00	30.31	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23013-BS1 File ID: 0723LCS1.D

Sampled: Prepared: Analyzed: 07/23/12 08:42

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	113	2.50	5.00	10.0	
71-43-2	Benzene	50.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	47.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	57.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	54.6	0.250	0.500	1.00	
75-25-2	Bromoform	56.1	0.250	0.500	1.00	
74-83-9	Bromomethane	45.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	45.0	0.250	0.500	1.00	
78-93-3	2-Butanone	111	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	45.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	47.9	0.250	0.500	1.00	
75-15-0	Carbon disulfide	44.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	62.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.5	0.250	0.500	1.00	
75-00-3	Chloroethane	48.8	0.500	1.00	2.00	
67-66-3	Chloroform	51.1	0.250	0.500	1.00	
74-87-3	Chloromethane	45.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	44.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	43.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	61.9	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	50.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	56.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	48.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	47.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	58.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	56.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	49.7	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.7	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2G23013-BS1
File ID: 0723LCS1.D
Sampled:
Prepared:
Analyzed: 07/23/12 08:42
Solids:
Preparation: 5030B
Dilution:
Batch: 2G23013
Sequence: 2G20603
Calibration: 2191002
Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	112	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	49.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	46.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	46.9	0.500	1.00	2.00	
91-20-3	Naphthalene	51.8	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	117	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	55.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	43.5	0.250	0.500	1.00	
100-42-5	Styrene	51.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	42.3	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.7	0.250	0.500	1.00	
108-88-3	Toluene	47.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.0	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	48.9	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	50.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	58.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	56.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	48.9	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.3	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	147	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.57	102	75 - 120	
Dibromofluoromethane	30.00	31.77	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.72	102	70 - 120	
Toluene-d8	30.00	29.55	98.5	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23013-MS1 File ID: 0710213M.D

Sampled: Prepared: Analyzed: 07/23/12 17:47

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	108	2.50	5.00	10.0	
71-43-2	Benzene	54.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	65.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.8	0.250	0.500	1.00	
75-25-2	Bromoform	61.4	0.250	0.500	1.00	
74-83-9	Bromomethane	47.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	46.1	0.250	0.500	1.00	
78-93-3	2-Butanone	103	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	48.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	49.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	72.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.6	0.250	0.500	1.00	
75-00-3	Chloroethane	54.8	0.500	1.00	2.00	
67-66-3	Chloroform	55.9	0.250	0.500	1.00	
74-87-3	Chloromethane	51.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	44.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	45.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	71.0	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	62.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	51.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	57.6	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	56.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.5	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	57.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	58.0	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	52.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.2	0.250	0.500	2.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23013-MS1 File ID: 0710213M.D

Sampled: Prepared: Analyzed: 07/23/12 17:47

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	105	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	53.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.2	0.500	1.00	2.00	
91-20-3	Naphthalene	49.8	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	113	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	55.8	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	44.0	0.250	0.500	1.00	
100-42-5	Styrene	53.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	41.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	60.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.2	0.250	0.500	1.00	
108-88-3	Toluene	51.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.8	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	47.8	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	53.2	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	68.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	59.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	67.4	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	59.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	59.2	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	159	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.04	107	75 - 120	
Dibromofluoromethane	30.00	33.52	112	85 - 115	
1,2-Dichloroethane-d4	30.00	31.33	104	70 - 120	
Toluene-d8	30.00	28.20	94.0	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23013-MSD1 File ID: 0710213S.D

Sampled: Prepared: Analyzed: 07/23/12 18:16

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	94.5	2.50	5.00	10.0	
71-43-2	Benzene	52.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	63.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	57.5	0.250	0.500	1.00	
75-25-2	Bromoform	62.0	0.250	0.500	1.00	
74-83-9	Bromomethane	49.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	45.7	0.250	0.500	1.00	
78-93-3	2-Butanone	93.0	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	48.4	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	48.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	69.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.7	0.250	0.500	1.00	
75-00-3	Chloroethane	54.5	0.500	1.00	2.00	
67-66-3	Chloroform	56.1	0.250	0.500	1.00	
74-87-3	Chloromethane	52.1	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	45.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	45.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	70.6	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	50.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	56.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	53.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	58.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	51.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.0	0.250	0.500	2.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23013-MSD1 File ID: 0710213S.D

Sampled: Prepared: Analyzed: 07/23/12 18:16

Solids: Preparation: 5030B Dilution:

Batch: 2G23013 Sequence: 2G20603 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	94.4	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.3	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	101	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	57.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	45.0	0.250	0.500	1.00	
100-42-5	Styrene	54.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	61.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.8	0.250	0.500	1.00	
108-88-3	Toluene	49.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.9	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	49.0	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	54.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	65.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	58.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	64.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	60.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.8	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	58.1	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	158	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.70	109	75 - 120	
Dibromofluoromethane	30.00	32.86	110	85 - 115	
1,2-Dichloroethane-d4	30.00	29.65	98.8	70 - 120	
Toluene-d8	30.00	29.78	99.3	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G24004-BLK1 File ID: 0724BLK1.D

Sampled: Prepared: Analyzed: 07/24/12 12:02

Solids: Preparation: 5030B Dilution:

Batch: 2G24004 Sequence: 2G20706 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	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G24004-BLK1 File ID: 0724BLK1.D

Sampled: Prepared: Analyzed: 07/24/12 12:02

Solids: Preparation: 5030B Dilution:

Batch: 2G24004 Sequence: 2G20706 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	31.86	106	75 - 120	
Dibromofluoromethane	30.00	33.13	110	85 - 115	
1,2-Dichloroethane-d4	30.00	32.02	107	70 - 120	
Toluene-d8	30.00	30.13	100	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G24004-BS1 File ID: 0724LCS1.D

Sampled: Prepared: Analyzed: 07/24/12 10:36

Solids: Preparation: 5030B Dilution:

Batch: 2G24004 Sequence: 2G20706 Calibration: 2191002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	100	2.50	5.00	10.0	
71-43-2	Benzene	48.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	46.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	57.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	53.2	0.250	0.500	1.00	
75-25-2	Bromoform	56.9	0.250	0.500	1.00	
74-83-9	Bromomethane	45.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	44.0	0.250	0.500	1.00	
78-93-3	2-Butanone	95.5	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	45.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	46.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	42.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.1	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	48.1	0.250	0.500	1.00	
75-00-3	Chloroethane	46.9	0.500	1.00	2.00	
67-66-3	Chloroform	49.6	0.250	0.500	1.00	
74-87-3	Chloromethane	43.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	42.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	42.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.5	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	47.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	46.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	47.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	56.7	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	50.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	45.2	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	49.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	48.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	46.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	56.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	48.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	46.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	42.3	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_057

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

Matrix: | Laboratory ID: 2G24004-BS1 | File ID: 0724LCS1.D

Sampled: | Prepared: | Analyzed: 07/24/12 10:36

Solids: | Preparation: 5030B | Dilution:

Batch: 2G24004 | Sequence: 2G20706 | Calibration: 2191002 | Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	97.8	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	45.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.2	0.500	1.00	2.00	
91-20-3	Naphthalene	48.7	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	52.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	41.9	0.250	0.500	1.00	
100-42-5	Styrene	47.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	40.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.7	0.250	0.500	1.00	
108-88-3	Toluene	45.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.8	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	47.4	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	48.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	56.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	54.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	54.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	46.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.8	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	141	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.22	107	75 - 120	
Dibromofluoromethane	30.00	32.57	109	85 - 115	
1,2-Dichloroethane-d4	30.00	32.21	107	70 - 120	
Toluene-d8	30.00	29.29	97.6	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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
GW0655	07/18/12 13:32	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 12:03	4.90	14.00	
GW0656	07/18/12 11:06	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 12:32	5.02	14.00	
GW0657	07/18/12 11:06	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 13:00	5.04	14.00	
GW0685	07/16/12 14:45	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 13:29	6.91	14.00	
GW0686	07/16/12 12:44	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 13:58	7.01	14.00	
GW0737	07/18/12 14:41	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 14:26	4.95	14.00	
GW0738	07/18/12 12:10	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 14:55	5.07	14.00	
GW0739	07/18/12 10:11	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 15:24	5.18	14.00	
GW0743	07/17/12 14:37	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 15:52	6.01	14.00	
GW0744	07/17/12 12:14	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 16:21	6.13	14.00	
GW0745	07/17/12 12:14	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 16:50	6.15	14.00	
GW0746	07/17/12 10:03	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 17:18	6.26	14.00	
GW8056-AB	07/18/12 10:11	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 10:37	4.98	14.00	
GW8214-TB	07/16/12 08:00	07/19/12 08:30	07/23/12 00:00	N/A	14.00	07/23/12 11:06	7.09	14.00	
GW0629	07/19/12 16:26	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 15:51	4.93	14.00	
GW0643	07/19/12 14:45	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 16:20	5.02	14.00	
GW0653	07/19/12 16:00	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 16:48	4.99	14.00	
GW0654	07/18/12 15:33	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 17:17	6.03	14.00	
GW0730	07/19/12 11:37	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 17:45	5.21	14.00	
GW0732	07/19/12 10:54	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 18:14	5.26	14.00	
GW8215-TB	07/19/12 08:00	07/20/12 08:20	07/24/12 00:00	N/A	14.00	07/24/12 13:28	5.19	14.00	

Data for SW8270D Forms

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	0710201.D
Sampled:	07/18/12 13:32	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 15:13
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	0710201.D
Sampled:	07/18/12 13:32	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 15:13
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	33.51	71.0	50 - 110	
2-Fluorophenol	94.34	21.97	23.3	20 - 110	
Nitrobenzene-d5	47.17	30.06	63.7	40 - 110	
Phenol-d6	94.34	13.55	14.4	0 - 110	
Terphenyl-d14	47.17	44.72	94.8	50 - 135	
2,4,6-Tribromophenol	94.34	53.67	56.9	40 - 125	

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	0710203.D
Sampled:	07/18/12 11:06	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 15:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	0710203.D
Sampled:	07/18/12 11:06	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 15:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	33.87	69.1	50 - 110	
2-Fluorophenol	98.04	23.19	23.7	20 - 110	
Nitrobenzene-d5	49.02	31.19	63.6	40 - 110	
Phenol-d6	98.04	14.03	14.3	0 - 110	
Terphenyl-d14	49.02	40.63	82.9	50 - 135	
2,4,6-Tribromophenol	98.04	53.70	54.8	40 - 125	

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	0710205.D
Sampled:	07/18/12 11:06	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 16:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	0710205.D
Sampled:	07/18/12 11:06	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 16:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	36.20	76.7	50 - 110	
2-Fluorophenol	94.34	28.77	30.5	20 - 110	
Nitrobenzene-d5	47.17	31.57	66.9	40 - 110	
Phenol-d6	94.34	15.58	16.5	0 - 110	
Terphenyl-d14	47.17	41.58	88.1	50 - 135	
2,4,6-Tribromophenol	94.34	69.51	73.7	40 - 125	

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	0710207.D
Sampled:	07/16/12 14:45	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 14:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	0710207.D
Sampled:	07/16/12 14:45	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 14:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	39.40	78.8	50 - 110	
2-Fluorophenol	100.0	25.59	25.6	20 - 110	
Nitrobenzene-d5	50.00	36.13	72.3	40 - 110	
Phenol-d6	100.0	16.28	16.3	0 - 110	
Terphenyl-d14	50.00	46.57	93.1	50 - 135	
2,4,6-Tribromophenol	100.0	60.05	60.1	40 - 125	

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	0710209.D
Sampled:	07/16/12 12:44	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 14:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	0710209.D
Sampled:	07/16/12 12:44	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 14:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	34.95	74.1	50 - 110	
2-Fluorophenol	94.34	18.93	20.1	20 - 110	
Nitrobenzene-d5	47.17	30.77	65.2	40 - 110	
Phenol-d6	94.34	12.67	13.4	0 - 110	
Terphenyl-d14	47.17	45.47	96.4	50 - 135	
2,4,6-Tribromophenol	94.34	47.33	50.2	40 - 125	

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	0710211.D
Sampled:	07/18/12 14:41	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 16:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	0710211.D
Sampled:	07/18/12 14:41	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 16:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	39.32	83.4	50 - 110	
2-Fluorophenol	94.34	23.82	25.3	20 - 110	
Nitrobenzene-d5	47.17	34.62	73.4	40 - 110	
Phenol-d6	94.34	13.91	14.7	0 - 110	
Terphenyl-d14	47.17	45.02	95.4	50 - 135	
2,4,6-Tribromophenol	94.34	58.75	62.3	40 - 125	

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	0710213.D
Sampled:	07/18/12 12:10	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 17:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	0710213.D
Sampled:	07/18/12 12:10	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 17:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	34.34	72.8	50 - 110	
2-Fluorophenol	94.34	21.99	23.3	20 - 110	
Nitrobenzene-d5	47.17	31.39	66.6	40 - 110	
Phenol-d6	94.34	12.86	13.6	0 - 110	
Terphenyl-d14	47.17	42.13	89.3	50 - 135	
2,4,6-Tribromophenol	94.34	57.37	60.8	40 - 125	

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	0710215.D
Sampled:	07/18/12 10:11	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 18:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	X, U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	0710215.D
Sampled:	07/18/12 10:11	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 18:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	37.90	81.9	50 - 110	
2-Fluorophenol	92.59	23.87	25.8	20 - 110	
Nitrobenzene-d5	46.30	34.39	74.3	40 - 110	
Phenol-d6	92.59	14.22	15.4	0 - 110	
Terphenyl-d14	46.30	45.54	98.4	50 - 135	
2,4,6-Tribromophenol	92.59	62.29	67.3	40 - 125	

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	0710217.D
Sampled:	07/17/12 14:37	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 18:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	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

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	0710217.D
Sampled:	07/17/12 14:37	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 18:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 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	29.32	62.2	50 - 110	
2-Fluorophenol	94.34	13.49	14.3	20 - 110	*
Nitrobenzene-d5	47.17	26.56	56.3	40 - 110	
Phenol-d6	94.34	9.331	9.89	0 - 110	
Terphenyl-d14	47.17	36.77	78.0	50 - 135	
2,4,6-Tribromophenol	94.34	39.78	42.2	40 - 125	

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	0710219.D
Sampled:	07/17/12 12:14	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 19:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.17	2.34	4.67	U
208-96-8	Acenaphthylene		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	U
120-12-7	Anthracene		1.17	2.34	4.67	U
1912-24-9	Atrazine		1.17	2.34	4.67	U
100-52-7	Benzaldehyde		1.17	2.34	4.67	U
92-87-5	Benzidine		11.7	46.7	93.5	U
56-55-3	Benzo(a)anthracene		1.17	2.34	4.67	U
50-32-8	Benzo(a)pyrene		1.17	2.34	4.67	U
205-99-2	Benzo(b)fluoranthene		1.17	2.34	4.67	U
191-24-2	Benzo(g,h,i)perylene		1.17	2.34	4.67	U
65-85-0	Benzoic acid		11.7	46.7	93.5	U
207-08-9	Benzo(k)fluoranthene		1.17	2.34	4.67	U
92-52-4	1,1-Biphenyl		1.17	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	U
105-60-2	Caprolactam		1.17	2.34	4.67	U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.17	2.34	4.67	X, U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
218-01-9	Chrysene		1.17	2.34	4.67	U
53-70-3	Dibenz(a,h)anthracene		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		1.17	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		7.79	23.4	46.7	U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	U

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	0710219.D
Sampled:	07/17/12 12:14	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 19:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	U
206-44-0	Fluoranthene		1.17	2.34	4.67	U
86-73-7	Fluorene		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		1.17	2.34	4.67	U
87-68-3	Hexachlorobutadiene		1.17	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	4.67	9.35	U
67-72-1	Hexachloroethane		1.17	2.34	4.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
90-12-0	1-Methylnaphthalene		1.17	2.34	4.67	U
91-57-6	2-Methylnaphthalene		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.17	2.34	4.67	U
91-20-3	Naphthalene		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		4.67	9.35	18.7	U
99-09-2	3-Nitroaniline		4.67	9.35	18.7	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
87-86-5	Pentachlorophenol		4.67	9.35	18.7	U
85-01-8	Phenanthrene		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
129-00-0	Pyrene		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		1.17	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	33.04	70.7	50 - 110	
2-Fluorophenol	93.46	17.70	18.9	20 - 110	*
Nitrobenzene-d5	46.73	30.65	65.6	40 - 110	
Phenol-d6	93.46	11.32	12.1	0 - 110	
Terphenyl-d14	46.73	39.92	85.4	50 - 135	
2,4,6-Tribromophenol	93.46	40.59	43.4	40 - 125	

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	0710221.D
Sampled:	07/17/12 12:14	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 19:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	X, U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	0710221.D
Sampled:	07/17/12 12:14	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 19:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	35.47	76.6	50 - 110	
2-Fluorophenol	92.59	18.17	19.6	20 - 110	*
Nitrobenzene-d5	46.30	32.55	70.3	40 - 110	
Phenol-d6	92.59	11.81	12.8	0 - 110	
Terphenyl-d14	46.30	43.19	93.3	50 - 135	
2,4,6-Tribromophenol	92.59	39.78	43.0	40 - 125	

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	0710223.D
Sampled:	07/17/12 10:03	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 20:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	X, U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	0710223.D
Sampled:	07/17/12 10:03	Prepared:	07/20/12 12:10	Analyzed:	07/30/12 20:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	36.33	78.5	50 - 110	
2-Fluorophenol	92.59	26.94	29.1	20 - 110	
Nitrobenzene-d5	46.30	33.95	73.3	40 - 110	
Phenol-d6	92.59	14.34	15.5	0 - 110	
Terphenyl-d14	46.30	43.96	95.0	50 - 135	
2,4,6-Tribromophenol	92.59	68.41	73.9	40 - 125	

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	0710701.D
Sampled:	07/19/12 16:26	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 17:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	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

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	0710701.D
Sampled:	07/19/12 16:26	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 17:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	39.85	81.3	50 - 110	
2-Fluorophenol	98.04	25.58	26.1	20 - 110	
Nitrobenzene-d5	49.02	37.29	76.1	40 - 110	
Phenol-d6	98.04	17.35	17.7	0 - 110	
Terphenyl-d14	49.02	49.17	100	50 - 135	
2,4,6-Tribromophenol	98.04	56.46	57.6	40 - 125	

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	0710703.D
Sampled:	07/19/12 14:45	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 17:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	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

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	0710703.D
Sampled:	07/19/12 14:45	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 17:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	32.43	67.4	50 - 110	
2-Fluorophenol	96.15	15.91	16.5	20 - 110	*
Nitrobenzene-d5	48.08	29.53	61.4	40 - 110	
Phenol-d6	96.15	11.23	11.7	0 - 110	
Terphenyl-d14	48.08	46.39	96.5	50 - 135	
2,4,6-Tribromophenol	96.15	42.48	44.2	40 - 125	

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	0710705.D
Sampled:	07/19/12 16:00	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 18:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	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

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	0710705.D
Sampled:	07/19/12 16:00	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 18:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	38.64	81.9	50 - 110	
2-Fluorophenol	94.34	26.65	28.2	20 - 110	
Nitrobenzene-d5	47.17	35.24	74.7	40 - 110	
Phenol-d6	94.34	16.12	17.1	0 - 110	
Terphenyl-d14	47.17	44.94	95.3	50 - 135	
2,4,6-Tribromophenol	94.34	64.27	68.1	40 - 125	

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	0710707.D
Sampled:	07/18/12 15:33	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 18:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	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

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	0710707.D
Sampled:	07/18/12 15:33	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 18:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	42.57	88.5	50 - 110	
2-Fluorophenol	96.15	20.21	21.0	20 - 110	
Nitrobenzene-d5	48.08	36.50	75.9	40 - 110	
Phenol-d6	96.15	14.10	14.7	0 - 110	
Terphenyl-d14	48.08	50.94	106	50 - 135	
2,4,6-Tribromophenol	96.15	50.79	52.8	40 - 125	

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	0710709.D
Sampled:	07/19/12 11:37	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 19:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	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

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	0710709.D
Sampled:	07/19/12 11:37	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 19:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	36.21	75.3	50 - 110	
2-Fluorophenol	96.15	31.51	32.8	20 - 110	
Nitrobenzene-d5	48.08	33.15	68.9	40 - 110	
Phenol-d6	96.15	17.42	18.1	0 - 110	
Terphenyl-d14	48.08	48.82	102	50 - 135	
2,4,6-Tribromophenol	96.15	86.69	90.2	40 - 125	

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	0710711.D
Sampled:	07/19/12 10:54	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 19:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	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

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	0710711.D
Sampled:	07/19/12 10:54	Prepared:	07/23/12 14:10	Analyzed:	07/26/12 19:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G23006 Sequence: 2G20806 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	41.13	87.2	50 - 110	
2-Fluorophenol	94.34	25.67	27.2	20 - 110	
Nitrobenzene-d5	47.17	34.37	72.9	40 - 110	
Phenol-d6	94.34	15.73	16.7	0 - 110	
Terphenyl-d14	47.17	35.63	75.5	50 - 135	
2,4,6-Tribromophenol	94.34	64.19	68.0	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20806	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20806-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/26/12 10:49		
2-Fluorobiphenyl	50.00	103	80 - 120	8.28	8.28	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.6	80 - 120	3.626	3.626	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	91.2	80 - 120	5.935	5.935	0.0000	+/-0.500	
Phenol-d6	100.0	96.0	80 - 120	4.78	4.78	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	80 - 120	12.844	12.844	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	102	80 - 120	10.078	10.078	0.0000	+/-0.500	
Blank (2G23006-BLK1) ug/L				Lab File ID: G23006B1.D		Analyzed: 07/26/12 11:44		
2-Fluorobiphenyl	50.00	87.4	50 - 110	8.28	8.28	0.0000	+/-0.500	
2-Fluorophenol	100.0	28.6	20 - 110	3.636	3.626	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	80.6	40 - 110	5.934	5.935	-0.0010	+/-0.500	
Phenol-d6	100.0	18.7	0 - 110	4.77	4.78	-0.0100	+/-0.500	
Terphenyl-d14	50.00	106	50 - 135	12.844	12.844	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	65.9	40 - 125	10.079	10.078	0.0010	+/-0.500	
LCS (2G23006-BS1) ug/L				Lab File ID: G23006L1.D		Analyzed: 07/26/12 12:12		
2-Fluorobiphenyl	50.00	85.2	50 - 110	8.278	8.28	-0.0020	+/-0.500	
2-Fluorophenol	100.0	40.4	20 - 110	3.635	3.626	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	81.9	40 - 110	5.936	5.935	0.0010	+/-0.500	
Phenol-d6	100.0	22.0	0 - 110	4.77	4.78	-0.0100	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	12.846	12.844	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	92.8	40 - 125	10.081	10.078	0.0030	+/-0.500	
LCS Dup (2G23006-BSD1) ug/L				Lab File ID: G23006L2.D		Analyzed: 07/26/12 12:40		
2-Fluorobiphenyl	50.00	86.5	50 - 110	8.275	8.28	-0.0050	+/-0.500	
2-Fluorophenol	100.0	40.3	20 - 110	3.637	3.626	0.0110	+/-0.500	
Nitrobenzene-d5	50.00	82.3	40 - 110	5.938	5.935	0.0030	+/-0.500	
Phenol-d6	100.0	23.0	0 - 110	4.772	4.78	-0.0080	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	12.846	12.844	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	87.6	40 - 125	10.077	10.078	-0.0010	+/-0.500	
GW0629 (1207107-01) ug/L				Lab File ID: 0710701.D		Analyzed: 07/26/12 17:24		
2-Fluorobiphenyl	49.02	81.3	50 - 110	8.28	8.28	0.0000	+/-0.500	
2-Fluorophenol	98.04	26.1	20 - 110	3.637	3.626	0.0110	+/-0.500	
Nitrobenzene-d5	49.02	76.1	40 - 110	5.944	5.935	0.0090	+/-0.500	
Phenol-d6	98.04	17.7	0 - 110	4.78	4.78	0.0000	+/-0.500	
Terphenyl-d14	49.02	100	50 - 135	12.853	12.844	0.0090	+/-0.500	
2,4,6-Tribromophenol	98.04	57.6	40 - 125	10.078	10.078	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20806	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0643 (1207107-03) ug/L				Lab File ID: 0710703.D		Analyzed: 07/26/12 17:53		
2-Fluorobiphenyl	48.08	67.4	50 - 110	8.286	8.28	0.0060	+/-0.500	
2-Fluorophenol	96.15	16.5	20 - 110	3.635	3.626	0.0090	+/-0.500	*
Nitrobenzene-d5	48.08	61.4	40 - 110	5.941	5.935	0.0060	+/-0.500	
Phenol-d6	96.15	11.7	0 - 110	4.779	4.78	-0.0010	+/-0.500	
Terphenyl-d14	48.08	96.5	50 - 135	12.853	12.844	0.0090	+/-0.500	
2,4,6-Tribromophenol	96.15	44.2	40 - 125	10.084	10.078	0.0060	+/-0.500	
GW0653 (1207107-05) ug/L				Lab File ID: 0710705.D		Analyzed: 07/26/12 18:21		
2-Fluorobiphenyl	47.17	81.9	50 - 110	8.278	8.28	-0.0020	+/-0.500	
2-Fluorophenol	94.34	28.2	20 - 110	3.636	3.626	0.0100	+/-0.500	
Nitrobenzene-d5	47.17	74.7	40 - 110	5.942	5.935	0.0070	+/-0.500	
Phenol-d6	94.34	17.1	0 - 110	4.778	4.78	-0.0020	+/-0.500	
Terphenyl-d14	47.17	95.3	50 - 135	12.854	12.844	0.0100	+/-0.500	
2,4,6-Tribromophenol	94.34	68.1	40 - 125	10.078	10.078	0.0000	+/-0.500	
GW0654 (1207107-07) ug/L				Lab File ID: 0710707.D		Analyzed: 07/26/12 18:50		
2-Fluorobiphenyl	48.08	88.5	50 - 110	8.28	8.28	0.0000	+/-0.500	
2-Fluorophenol	96.15	21.0	20 - 110	3.635	3.626	0.0090	+/-0.500	
Nitrobenzene-d5	48.08	75.9	40 - 110	5.943	5.935	0.0080	+/-0.500	
Phenol-d6	96.15	14.7	0 - 110	4.779	4.78	-0.0010	+/-0.500	
Terphenyl-d14	48.08	106	50 - 135	12.847	12.844	0.0030	+/-0.500	
2,4,6-Tribromophenol	96.15	52.8	40 - 125	10.08	10.078	0.0020	+/-0.500	
GW0730 (1207107-09) ug/L				Lab File ID: 0710709.D		Analyzed: 07/26/12 19:18		
2-Fluorobiphenyl	48.08	75.3	50 - 110	8.279	8.28	-0.0010	+/-0.500	
2-Fluorophenol	96.15	32.8	20 - 110	3.638	3.626	0.0120	+/-0.500	
Nitrobenzene-d5	48.08	68.9	40 - 110	5.944	5.935	0.0090	+/-0.500	
Phenol-d6	96.15	18.1	0 - 110	4.771	4.78	-0.0090	+/-0.500	
Terphenyl-d14	48.08	102	50 - 135	12.853	12.844	0.0090	+/-0.500	
2,4,6-Tribromophenol	96.15	90.2	40 - 125	10.078	10.078	0.0000	+/-0.500	
GW0732 (1207107-11) ug/L				Lab File ID: 0710711.D		Analyzed: 07/26/12 19:46		
2-Fluorobiphenyl	47.17	87.2	50 - 110	8.282	8.28	0.0020	+/-0.500	
2-Fluorophenol	94.34	27.2	20 - 110	3.637	3.626	0.0110	+/-0.500	
Nitrobenzene-d5	47.17	72.9	40 - 110	5.946	5.935	0.0110	+/-0.500	
Phenol-d6	94.34	16.7	0 - 110	4.772	4.78	-0.0080	+/-0.500	
Terphenyl-d14	47.17	75.5	50 - 135	12.849	12.844	0.0050	+/-0.500	
2,4,6-Tribromophenol	94.34	68.0	40 - 125	10.081	10.078	0.0030	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G21305-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/30/12 12:18		
2-Fluorobiphenyl	50.00	97.8	80 - 120	8.276	8.276	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	3.625	3.625	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	93.9	80 - 120	5.932	5.932	0.0000	+/-0.500	
Phenol-d6	100.0	99.5	80 - 120	4.777	4.777	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	80 - 120	12.842	12.842	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	105	80 - 120	10.08	10.08	0.0000	+/-0.500	
Blank (2G20119-BLK1) ug/L				Lab File ID: G20119B1.D		Analyzed: 07/30/12 13:21		
2-Fluorobiphenyl	50.00	75.8	50 - 110	8.273	8.276	-0.0030	+/-0.500	
2-Fluorophenol	100.0	32.2	20 - 110	3.632	3.625	0.0070	+/-0.500	
Nitrobenzene-d5	50.00	68.1	40 - 110	5.93	5.932	-0.0020	+/-0.500	
Phenol-d6	100.0	16.8	0 - 110	4.768	4.777	-0.0090	+/-0.500	
Terphenyl-d14	50.00	93.3	50 - 135	12.845	12.842	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	76.9	40 - 125	10.079	10.08	-0.0010	+/-0.500	
LCS (2G20119-BS1) ug/L				Lab File ID: G20119L1.D		Analyzed: 07/30/12 13:49		
2-Fluorobiphenyl	50.00	90.3	50 - 110	8.278	8.276	0.0020	+/-0.500	
2-Fluorophenol	100.0	37.9	20 - 110	3.635	3.625	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	79.4	40 - 110	5.932	5.932	0.0000	+/-0.500	
Phenol-d6	100.0	21.2	0 - 110	4.768	4.777	-0.0090	+/-0.500	
Terphenyl-d14	50.00	93.4	50 - 135	12.847	12.842	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	84.0	40 - 125	10.074	10.08	-0.0060	+/-0.500	
GW0685 (1207102-07) ug/L				Lab File ID: 0710207.D		Analyzed: 07/30/12 14:17		
2-Fluorobiphenyl	50.00	78.8	50 - 110	8.279	8.276	0.0030	+/-0.500	
2-Fluorophenol	100.0	25.6	20 - 110	3.634	3.625	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	72.3	40 - 110	5.94	5.932	0.0080	+/-0.500	
Phenol-d6	100.0	16.3	0 - 110	4.768	4.777	-0.0090	+/-0.500	
Terphenyl-d14	50.00	93.1	50 - 135	12.848	12.842	0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	60.1	40 - 125	10.08	10.08	0.0000	+/-0.500	
GW0686 (1207102-09) ug/L				Lab File ID: 0710209.D		Analyzed: 07/30/12 14:45		
2-Fluorobiphenyl	47.17	74.1	50 - 110	8.273	8.276	-0.0030	+/-0.500	
2-Fluorophenol	94.34	20.1	20 - 110	3.632	3.625	0.0070	+/-0.500	
Nitrobenzene-d5	47.17	65.2	40 - 110	5.938	5.932	0.0060	+/-0.500	
Phenol-d6	94.34	13.4	0 - 110	4.776	4.777	-0.0010	+/-0.500	
Terphenyl-d14	47.17	96.4	50 - 135	12.845	12.842	0.0030	+/-0.500	
2,4,6-Tribromophenol	94.34	50.2	40 - 125	10.079	10.08	-0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0655 (1207102-01) ug/L				Lab File ID: 0710201.D		Analyzed: 07/30/12 15:13		
2-Fluorobiphenyl	47.17	71.0	50 - 110	8.271	8.276	-0.0050	+/-0.500	
2-Fluorophenol	94.34	23.3	20 - 110	3.635	3.625	0.0100	+/-0.500	
Nitrobenzene-d5	47.17	63.7	40 - 110	5.939	5.932	0.0070	+/-0.500	
Phenol-d6	94.34	14.4	0 - 110	4.777	4.777	0.0000	+/-0.500	
Terphenyl-d14	47.17	94.8	50 - 135	12.841	12.842	-0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	56.9	40 - 125	10.077	10.08	-0.0030	+/-0.500	
GW0656 (1207102-03) ug/L				Lab File ID: 0710203.D		Analyzed: 07/30/12 15:41		
2-Fluorobiphenyl	49.02	69.1	50 - 110	8.278	8.276	0.0020	+/-0.500	
2-Fluorophenol	98.04	23.7	20 - 110	3.629	3.625	0.0040	+/-0.500	
Nitrobenzene-d5	49.02	63.6	40 - 110	5.934	5.932	0.0020	+/-0.500	
Phenol-d6	98.04	14.3	0 - 110	4.771	4.777	-0.0060	+/-0.500	
Terphenyl-d14	49.02	82.9	50 - 135	12.842	12.842	0.0000	+/-0.500	
2,4,6-Tribromophenol	98.04	54.8	40 - 125	10.077	10.08	-0.0030	+/-0.500	
GW0657 (1207102-05) ug/L				Lab File ID: 0710205.D		Analyzed: 07/30/12 16:09		
2-Fluorobiphenyl	47.17	76.7	50 - 110	8.279	8.276	0.0030	+/-0.500	
2-Fluorophenol	94.34	30.5	20 - 110	3.631	3.625	0.0060	+/-0.500	
Nitrobenzene-d5	47.17	66.9	40 - 110	5.936	5.932	0.0040	+/-0.500	
Phenol-d6	94.34	16.5	0 - 110	4.774	4.777	-0.0030	+/-0.500	
Terphenyl-d14	47.17	88.1	50 - 135	12.841	12.842	-0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	73.7	40 - 125	10.076	10.08	-0.0040	+/-0.500	
GW0737 (1207102-11) ug/L				Lab File ID: 0710211.D		Analyzed: 07/30/12 16:37		
2-Fluorobiphenyl	47.17	83.4	50 - 110	8.28	8.276	0.0040	+/-0.500	
2-Fluorophenol	94.34	25.3	20 - 110	3.633	3.625	0.0080	+/-0.500	
Nitrobenzene-d5	47.17	73.4	40 - 110	5.936	5.932	0.0040	+/-0.500	
Phenol-d6	94.34	14.7	0 - 110	4.774	4.777	-0.0030	+/-0.500	
Terphenyl-d14	47.17	95.4	50 - 135	12.843	12.842	0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	62.3	40 - 125	10.081	10.08	0.0010	+/-0.500	
GW0738 (1207102-13) ug/L				Lab File ID: 0710213.D		Analyzed: 07/30/12 17:05		
2-Fluorobiphenyl	47.17	72.8	50 - 110	8.272	8.276	-0.0040	+/-0.500	
2-Fluorophenol	94.34	23.3	20 - 110	3.633	3.625	0.0080	+/-0.500	
Nitrobenzene-d5	47.17	66.6	40 - 110	5.938	5.932	0.0060	+/-0.500	
Phenol-d6	94.34	13.6	0 - 110	4.776	4.777	-0.0010	+/-0.500	
Terphenyl-d14	47.17	89.3	50 - 135	12.847	12.842	0.0050	+/-0.500	
2,4,6-Tribromophenol	94.34	60.8	40 - 125	10.076	10.08	-0.0040	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (2G20119-MS1) ug/L				Lab File ID: 0710213M.D		Analyzed: 07/30/12 17:33		
2-Fluorobiphenyl	50.00	79.3	50 - 110	8.28	8.276	0.0040	+/-0.500	
2-Fluorophenol	100.0	32.3	20 - 110	3.635	3.625	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	76.1	40 - 110	5.933	5.932	0.0010	+/-0.500	
Phenol-d6	100.0	17.8	0 - 110	4.769	4.777	-0.0080	+/-0.500	
Terphenyl-d14	50.00	90.3	50 - 135	12.84	12.842	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	77.7	40 - 125	10.077	10.08	-0.0030	+/-0.500	
Matrix Spike Dup (2G20119-MSD1) ug/L				Lab File ID: 0710213S.D		Analyzed: 07/30/12 18:01		
2-Fluorobiphenyl	50.00	82.1	50 - 110	8.279	8.276	0.0030	+/-0.500	
2-Fluorophenol	100.0	30.4	20 - 110	3.634	3.625	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	74.0	40 - 110	5.941	5.932	0.0090	+/-0.500	
Phenol-d6	100.0	16.8	0 - 110	4.777	4.777	0.0000	+/-0.500	
Terphenyl-d14	50.00	88.0	50 - 135	12.847	12.842	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	76.5	40 - 125	10.079	10.08	-0.0010	+/-0.500	
GW0739 (1207102-15) ug/L				Lab File ID: 0710215.D		Analyzed: 07/30/12 18:29		
2-Fluorobiphenyl	46.30	81.9	50 - 110	8.272	8.276	-0.0040	+/-0.500	
2-Fluorophenol	92.59	25.8	20 - 110	3.634	3.625	0.0090	+/-0.500	
Nitrobenzene-d5	46.30	74.3	40 - 110	5.938	5.932	0.0060	+/-0.500	
Phenol-d6	92.59	15.4	0 - 110	4.776	4.777	-0.0010	+/-0.500	
Terphenyl-d14	46.30	98.4	50 - 135	12.845	12.842	0.0030	+/-0.500	
2,4,6-Tribromophenol	92.59	67.3	40 - 125	10.079	10.08	-0.0010	+/-0.500	
GW0743 (1207102-17) ug/L				Lab File ID: 0710217.D		Analyzed: 07/30/12 18:57		
2-Fluorobiphenyl	47.17	62.2	50 - 110	8.274	8.276	-0.0020	+/-0.500	
2-Fluorophenol	94.34	14.3	20 - 110	3.634	3.625	0.0090	+/-0.500	*
Nitrobenzene-d5	47.17	56.3	40 - 110	5.94	5.932	0.0080	+/-0.500	
Phenol-d6	94.34	9.89	0 - 110	4.777	4.777	0.0000	+/-0.500	
Terphenyl-d14	47.17	78.0	50 - 135	12.842	12.842	0.0000	+/-0.500	
2,4,6-Tribromophenol	94.34	42.2	40 - 125	10.079	10.08	-0.0010	+/-0.500	
GW0744 (1207102-19) ug/L				Lab File ID: 0710219.D		Analyzed: 07/30/12 19:24		
2-Fluorobiphenyl	46.73	70.7	50 - 110	8.273	8.276	-0.0030	+/-0.500	
2-Fluorophenol	93.46	18.9	20 - 110	3.634	3.625	0.0090	+/-0.500	*
Nitrobenzene-d5	46.73	65.6	40 - 110	5.931	5.932	-0.0010	+/-0.500	
Phenol-d6	93.46	12.1	0 - 110	4.768	4.777	-0.0090	+/-0.500	
Terphenyl-d14	46.73	85.4	50 - 135	12.839	12.842	-0.0030	+/-0.500	
2,4,6-Tribromophenol	93.46	43.4	40 - 125	10.072	10.08	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0745 (1207102-21) ug/L				Lab File ID: 0710221.D		Analyzed: 07/30/12 19:52		
2-Fluorobiphenyl	46.30	76.6	50 - 110	8.272	8.276	-0.0040	+/-0.500	
2-Fluorophenol	92.59	19.6	20 - 110	3.633	3.625	0.0080	+/-0.500	*
Nitrobenzene-d5	46.30	70.3	40 - 110	5.938	5.932	0.0060	+/-0.500	
Phenol-d6	92.59	12.8	0 - 110	4.776	4.777	-0.0010	+/-0.500	
Terphenyl-d14	46.30	93.3	50 - 135	12.846	12.842	0.0040	+/-0.500	
2,4,6-Tribromophenol	92.59	43.0	40 - 125	10.071	10.08	-0.0090	+/-0.500	
GW0746 (1207102-23) ug/L				Lab File ID: 0710223.D		Analyzed: 07/30/12 20:20		
2-Fluorobiphenyl	46.30	78.5	50 - 110	8.274	8.276	-0.0020	+/-0.500	
2-Fluorophenol	92.59	29.1	20 - 110	3.634	3.625	0.0090	+/-0.500	
Nitrobenzene-d5	46.30	73.3	40 - 110	5.93	5.932	-0.0020	+/-0.500	
Phenol-d6	92.59	15.5	0 - 110	4.767	4.777	-0.0100	+/-0.500	
Terphenyl-d14	46.30	95.0	50 - 135	12.843	12.842	0.0010	+/-0.500	
2,4,6-Tribromophenol	92.59	73.9	40 - 125	10.08	10.08	0.0000	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G20119	Laboratory ID:	2G20119-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	38.75	79.1	45 - 110
Acenaphthylene	49.00	41.16	84.0	50 - 105
Acetophenone	50.00	39.82	79.6	50 - 110
Anthracene	49.00	39.80	81.2	55 - 110
Atrazine	50.00	43.47	86.9	70 - 115
Benzaldehyde	50.00	38.37	76.7	10 - 180
Benzidine	50.00	100 U	0	0 - 200
Benzo(a)anthracene	49.00	40.95	83.6	55 - 110
Benzo(a)pyrene	49.00	42.46	86.7	55 - 110
Benzo(b)fluoranthene	49.00	44.22	90.3	45 - 120
Benzo(g,h,i)perylene	49.00	43.56	88.9	40 - 125
Benzoic acid	100.0	14.00	14.0	0 - 125
Benzo(k)fluoranthene	49.00	43.31	88.4	45 - 125
1,1-Biphenyl	50.00	44.97	89.9	50 - 110
4-Bromophenyl-phenylether	49.00	38.73	79.0	50 - 115
Butylbenzylphthalate	49.00	46.32	94.5	45 - 115
Caprolactam	50.00	6.888	13.8	10 - 110
Carbazole	50.00	47.02	94.0	50 - 115
4-Chloro-3-methylphenol	100.0	77.51	77.5	45 - 110
4-Chloroaniline	50.00	37.74	75.5	15 - 110
Bis(2-chloroethoxy)methane	49.00	39.80	81.2	45 - 105
Bis(2-chloroethyl)ether	49.00	35.91	73.3	35 - 110
2,2'-Oxybis-1-chloropropane	49.00	44.96	91.8	25 - 130
2-Chloronaphthalene	49.00	37.37	76.3	50 - 105
2-Chlorophenol	100.0	72.74	72.7	35 - 105
4-Chlorophenyl phenyl ether	49.00	42.11	85.9	50 - 110
Chrysene	49.00	41.88	85.5	55 - 110
Dibenz(a,h)anthracene	49.00	42.02	85.8	40 - 125
Dibenzofuran	49.00	39.51	80.6	55 - 105
Di-n-butylphthalate	49.00	43.05	87.8	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G20119	Laboratory ID:	2G20119-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	43.25	86.5	20 - 110
2,4-Dichlorophenol	100.0	79.81	79.8	40 - 110
Diethylphthalate	49.00	41.40	84.5	40 - 120
2,4-Dimethylphenol	100.0	80.25	80.3	30 - 110
Dimethyl phthalate	49.00	39.95	81.5	25 - 125
4,6-Dinitro-2-methylphenol	100.0	78.16	78.2	40 - 130
2,4-Dinitrophenol	100.0	65.68	65.7	15 - 140
2,4-Dinitrotoluene	49.00	38.23	78.0	50 - 120
2,6-Dinitrotoluene	49.00	39.08	79.8	50 - 115
Di-n-octylphthalate	49.00	45.32	92.5	35 - 135
1,2-Diphenylhydrazine	50.00	47.35	94.7	55 - 115
Bis(2-ethylhexyl)phthalate	49.00	45.70	93.3	40 - 125
Fluoranthene	49.00	40.05	81.7	55 - 115
Fluorene	49.00	41.55	84.8	50 - 110
Hexachlorobenzene	49.00	38.86	79.3	50 - 110
Hexachlorobutadiene	49.00	32.28	65.9	25 - 105
Hexachlorocyclopentadiene	49.00	24.04	49.1	10 - 110
Hexachloroethane	49.00	29.76	60.7	30 - 95
Indeno(1,2,3-cd)pyrene	49.00	43.23	88.2	45 - 125
Isophorone	49.00	33.03	67.4	50 - 110
1-Methylnaphthalene	50.00	42.20	84.4	30 - 115
2-Methylnaphthalene	49.00	36.86	75.2	45 - 105
2-Methylphenol	100.0	59.75	59.7	40 - 110
3-Methylphenol/4-Methylphenol	100.0	53.77	53.8	30 - 110
Naphthalene	49.00	38.55	78.7	40 - 100
4-Nitroaniline	50.00	44.42	88.8	35 - 120
3-Nitroaniline	50.00	41.32	82.6	20 - 125
2-Nitroaniline	50.00	52.37	105	50 - 115
Nitrobenzene	49.00	36.08	73.6	30 - 110
4-Nitrophenol	100.0	24.54	24.5	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G20119	Laboratory ID:	2G20119-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	83.74	83.7	40 - 115
N-Nitrosodiphenylamine	49.00	34.92	71.3	50 - 110
N-Nitroso-di-n-propylamine	49.00	40.93	83.5	35 - 130
Pentachlorophenol	100.0	76.56	76.6	40 - 115
Phenanthrene	49.00	42.52	86.8	50 - 115
Phenol	100.0	21.88	21.9	0 - 115
Pyrene	49.00	43.14	88.0	50 - 130
2,4,6-Trichlorophenol	100.0	80.26	80.3	50 - 115
2,4,5-Trichlorophenol	100.0	85.36	85.4	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23006	Laboratory ID:	2G23006-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	38.29	78.1	45 - 110
Acenaphthylene	49.00	41.75	85.2	50 - 105
Acetophenone	50.00	43.24	86.5	50 - 110
Anthracene	49.00	40.95	83.6	55 - 110
Atrazine	50.00	47.88	95.8	70 - 115
Benzaldehyde	50.00	41.38	82.8	10 - 180
Benzidine	50.00	100 U	0	0 - 200
Benzo(a)anthracene	49.00	43.07	87.9	55 - 110
Benzo(a)pyrene	49.00	43.95	89.7	55 - 110
Benzo(b)fluoranthene	49.00	47.24	96.4	45 - 120
Benzo(g,h,i)perylene	49.00	45.66	93.2	40 - 125
Benzoic acid	100.0	19.50	19.5	0 - 125
Benzo(k)fluoranthene	49.00	44.92	91.7	45 - 125
1,1-Biphenyl	50.00	49.88	99.8	50 - 110
4-Bromophenyl-phenylether	49.00	39.38	80.4	50 - 115
Butylbenzylphthalate	49.00	52.95	108	45 - 115
Caprolactam	50.00	7.903	15.8	10 - 110
Carbazole	50.00	50.45	101	50 - 115
4-Chloro-3-methylphenol	100.0	80.51	80.5	45 - 110
4-Chloroaniline	50.00	38.33	76.7	15 - 110
Bis(2-chloroethoxy)methane	49.00	40.05	81.7	45 - 105
Bis(2-chloroethyl)ether	49.00	37.43	76.4	35 - 110
2,2'-Oxybis-1-chloropropane	49.00	45.99	93.9	25 - 130
2-Chloronaphthalene	49.00	36.33	74.2	50 - 105
2-Chlorophenol	100.0	76.02	76.0	35 - 105
4-Chlorophenyl phenyl ether	49.00	38.48	78.5	50 - 110
Chrysene	49.00	43.96	89.7	55 - 110
Dibenz(a,h)anthracene	49.00	44.57	91.0	40 - 125
Dibenzofuran	49.00	38.03	77.6	55 - 105
Di-n-butylphthalate	49.00	47.72	97.4	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23006	Laboratory ID:	2G23006-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	46.09	92.2	20 - 110
2,4-Dichlorophenol	100.0	83.23	83.2	40 - 110
Diethylphthalate	49.00	44.58	91.0	40 - 120
2,4-Dimethylphenol	100.0	83.69	83.7	30 - 110
Dimethyl phthalate	49.00	42.58	86.9	25 - 125
4,6-Dinitro-2-methylphenol	100.0	83.67	83.7	40 - 130
2,4-Dinitrophenol	100.0	76.04	76.0	15 - 140
2,4-Dinitrotoluene	49.00	42.86	87.5	50 - 120
2,6-Dinitrotoluene	49.00	40.69	83.0	50 - 115
Di-n-octylphthalate	49.00	48.27	98.5	35 - 135
1,2-Diphenylhydrazine	50.00	47.22	94.4	55 - 115
Bis(2-ethylhexyl)phthalate	49.00	51.09	104	40 - 125
Fluoranthene	49.00	42.99	87.7	55 - 115
Fluorene	49.00	43.09	87.9	50 - 110
Hexachlorobenzene	49.00	38.42	78.4	50 - 110
Hexachlorobutadiene	49.00	27.33	55.8	25 - 105
Hexachlorocyclopentadiene	49.00	17.39	35.5	10 - 110
Hexachloroethane	49.00	25.63	52.3	30 - 95
Indeno(1,2,3-cd)pyrene	49.00	45.82	93.5	45 - 125
Isophorone	49.00	33.96	69.3	50 - 110
1-Methylnaphthalene	50.00	38.38	76.8	30 - 115
2-Methylnaphthalene	49.00	33.14	67.6	45 - 105
2-Methylphenol	100.0	61.81	61.8	40 - 110
3-Methylphenol/4-Methylphenol	100.0	55.57	55.6	30 - 110
Naphthalene	49.00	35.91	73.3	40 - 100
4-Nitroaniline	50.00	48.09	96.2	35 - 120
3-Nitroaniline	50.00	42.45	84.9	20 - 125
2-Nitroaniline	50.00	53.15	106	50 - 115
Nitrobenzene	49.00	37.22	76.0	30 - 110
4-Nitrophenol	100.0	25.05	25.0	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23006	Laboratory ID:	2G23006-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	86.08	86.1	40 - 115
N-Nitrosodiphenylamine	49.00	38.49	78.5	50 - 110
N-Nitroso-di-n-propylamine	49.00	41.00	83.7	35 - 130
Pentachlorophenol	100.0	87.59	87.6	40 - 115
Phenanthrene	49.00	41.87	85.4	50 - 115
Phenol	100.0	23.76	23.8	0 - 115
Pyrene	49.00	46.64	95.2	50 - 130
2,4,6-Trichlorophenol	100.0	86.33	86.3	50 - 115
2,4,5-Trichlorophenol	100.0	92.83	92.8	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	49.00	37.06	75.6	3.28	30	45 - 110
Acenaphthylene	49.00	39.67	81.0	5.11	30	50 - 105
Acetophenone	50.00	45.65	91.3	5.43	30	50 - 110
Anthracene	49.00	42.85	87.5	4.53	30	55 - 110
Atrazine	50.00	50.59	101	5.51	30	70 - 115
Benzaldehyde	50.00	41.89	83.8	1.22	30	10 - 180
Benzidine	50.00	100 U	0		30	0 - 200
Benzo(a)anthracene	49.00	44.75	91.3	3.83	30	55 - 110
Benzo(a)pyrene	49.00	44.65	91.1	1.58	30	55 - 110
Benzo(b)fluoranthene	49.00	44.27	90.3	6.49	30	45 - 120
Benzo(g,h,i)perylene	49.00	46.53	95.0	1.89	30	40 - 125
Benzoic acid	100.0	20.80	20.8	6.46	30	0 - 125
Benzo(k)fluoranthene	49.00	48.30	98.6	7.23	30	45 - 125
1,1-Biphenyl	50.00	50.92	102	2.05	30	50 - 110
4-Bromophenyl-phenylether	49.00	37.64	76.8	4.50	30	50 - 115
Butylbenzylphthalate	49.00	53.47	109	0.983	30	45 - 115
Caprolactam	50.00	7.962	15.9	0.735	30	10 - 110
Carbazole	50.00	51.59	103	2.23	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23006	Laboratory ID:	2G23006-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	100.0	82.43	82.4	2.35	30	45 - 110
4-Chloroaniline	50.00	38.76	77.5	1.12	30	15 - 110
Bis(2-chloroethoxy)methane	49.00	41.32	84.3	3.13	30	45 - 105
Bis(2-chloroethyl)ether	49.00	38.29	78.1	2.28	30	35 - 110
2,2'-Oxybis-1-chloropropane	49.00	46.63	95.2	1.40	30	25 - 130
2-Chloronaphthalene	49.00	34.71	70.8	4.58	30	50 - 105
2-Chlorophenol	100.0	74.43	74.4	2.12	30	35 - 105
4-Chlorophenyl phenyl ether	49.00	38.35	78.3	0.334	30	50 - 110
Chrysene	49.00	45.29	92.4	2.98	30	55 - 110
Dibenz(a,h)anthracene	49.00	46.50	94.9	4.24	30	40 - 125
Dibenzofuran	49.00	37.03	75.6	2.65	30	55 - 105
Di-n-butylphthalate	49.00	48.26	98.5	1.12	30	55 - 115
3,3'-Dichlorobenzidine	50.00	47.85	95.7	3.74	30	20 - 110
2,4-Dichlorophenol	100.0	82.96	83.0	0.315	30	40 - 110
Diethylphthalate	49.00	45.37	92.6	1.75	30	40 - 120
2,4-Dimethylphenol	100.0	84.22	84.2	0.623	30	30 - 110
Dimethyl phthalate	49.00	44.49	90.8	4.38	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	81.94	81.9	2.10	30	40 - 130
2,4-Dinitrophenol	100.0	70.19	70.2	8.01	30	15 - 140
2,4-Dinitrotoluene	49.00	42.07	85.9	1.86	30	50 - 120
2,6-Dinitrotoluene	49.00	41.77	85.3	2.64	30	50 - 115
Di-n-octylphthalate	49.00	50.38	103	4.28	30	35 - 135
1,2-Diphenylhydrazine	50.00	47.87	95.7	1.36	30	55 - 115
Bis(2-ethylhexyl)phthalate	49.00	52.46	107	2.65	30	40 - 125
Fluoranthene	49.00	43.24	88.2	0.579	30	55 - 115
Fluorene	49.00	40.31	82.3	6.67	30	50 - 110
Hexachlorobenzene	49.00	38.10	77.8	0.838	30	50 - 110
Hexachlorobutadiene	49.00	23.76	48.5	14.0	30	25 - 105
Hexachlorocyclopentadiene	49.00	16.98	34.6	2.40	30	10 - 110
Hexachloroethane	49.00	23.54	48.0	8.49	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23006	Laboratory ID:	2G23006-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	49.00	46.61	95.1	1.69	30	45 - 125
Isophorone	49.00	35.08	71.6	3.26	30	50 - 110
1-Methylnaphthalene	50.00	37.59	75.2	2.09	30	30 - 115
2-Methylnaphthalene	49.00	34.09	69.6	2.82	30	45 - 105
2-Methylphenol	100.0	64.72	64.7	4.60	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	59.56	59.6	6.94	30	30 - 110
Naphthalene	49.00	35.92	73.3	0.0253	30	40 - 100
4-Nitroaniline	50.00	48.98	98.0	1.83	30	35 - 120
3-Nitroaniline	50.00	45.23	90.5	6.36	30	20 - 125
2-Nitroaniline	50.00	53.91	108	1.42	30	50 - 115
Nitrobenzene	49.00	37.25	76.0	0.0824	30	30 - 110
4-Nitrophenol	100.0	27.00	27.0	7.51	30	0 - 125
2-Nitrophenol	100.0	86.08	86.1	0.00848	30	40 - 115
N-Nitrosodiphenylamine	49.00	38.36	78.3	0.313	30	50 - 110
N-Nitroso-di-n-propylamine	49.00	43.34	88.5	5.56	30	35 - 130
Pentachlorophenol	100.0	81.46	81.5	7.26	30	40 - 115
Phenanthrene	49.00	43.08	87.9	2.85	30	50 - 115
Phenol	100.0	24.92	24.9	4.77	30	0 - 115
Pyrene	49.00	47.77	97.5	2.39	30	50 - 130
2,4,6-Trichlorophenol	100.0	82.08	82.1	5.05	30	50 - 115
2,4,5-Trichlorophenol	100.0	89.30	89.3	3.88	30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G20119

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	49.00	ND	35.12	71.7		45 - 110
Acenaphthylene	49.00	ND	38.16	77.9		50 - 105
Acetophenone	50.00	ND	39.73	79.5		50 - 110
Anthracene	49.00	ND	39.75	81.1		55 - 110
Atrazine	50.00	ND	44.58	89.2		70 - 115
Benzaldehyde	50.00	ND	38.46	76.9		10 - 180
Benzidine	50.00	ND	100 U	0		0 - 200
Benzo(a)anthracene	49.00	ND	41.73	85.2		55 - 110
Benzo(a)pyrene	49.00	ND	41.55	84.8		55 - 110
Benzo(b)fluoranthene	49.00	ND	44.57	91.0		45 - 120
Benzo(g,h,i)perylene	49.00	ND	43.02	87.8		40 - 125
Benzoic acid	100.0	ND	16.17	16.2		0 - 125
Benzo(k)fluoranthene	49.00	ND	42.22	86.2		45 - 125
1,1-Biphenyl	50.00	ND	42.88	85.8		50 - 110
4-Bromophenyl-phenylether	49.00	ND	38.63	78.8		50 - 115
Butylbenzylphthalate	49.00	ND	46.51	94.9		45 - 115
Caprolactam	50.00	ND	5.574	11.1		10 - 110
Carbazole	50.00	ND	47.85	95.7		50 - 115
4-Chloro-3-methylphenol	100.0	ND	75.12	75.1		45 - 110
4-Chloroaniline	50.00	ND	35.74	71.5		15 - 110
Bis(2-chloroethoxy)methane	49.00	ND	38.56	78.7		45 - 105
Bis(2-chloroethyl)ether	49.00	ND	34.78	71.0		35 - 110
2,2'-Oxybis-1-chloropropane	49.00	ND	45.12	92.1		25 - 130
2-Chloronaphthalene	49.00	ND	34.22	69.8		50 - 105
2-Chlorophenol	100.0	ND	64.35	64.3		35 - 105
4-Chlorophenyl phenyl ether	49.00	ND	37.00	75.5		50 - 110
Chrysene	49.00	ND	43.87	89.5		55 - 110
Dibenz(a,h)anthracene	49.00	ND	40.88	83.4		40 - 125
Dibenzofuran	49.00	ND	35.65	72.8		55 - 105
Di-n-butylphthalate	49.00	ND	42.77	87.3		55 - 115
3,3'-Dichlorobenzidine	50.00	ND	42.62	85.2		20 - 110
2,4-Dichlorophenol	100.0	ND	74.07	74.1		40 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G20119

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	49.00	ND	37.75	77.0		40 - 120
2,4-Dimethylphenol	100.0	ND	73.96	74.0		30 - 110
Dimethyl phthalate	49.00	ND	38.15	77.9		25 - 125
4,6-Dinitro-2-methylphenol	100.0	ND	73.41	73.4		40 - 130
2,4-Dinitrophenol	100.0	ND	59.05	59.1		15 - 140
2,4-Dinitrotoluene	49.00	ND	37.18	75.9		50 - 120
2,6-Dinitrotoluene	49.00	ND	35.49	72.4		50 - 115
Di-n-octylphthalate	49.00	ND	43.87	89.5		35 - 135
1,2-Diphenylhydrazine	50.00	ND	48.17	96.3		55 - 115
Bis(2-ethylhexyl)phthalate	49.00	ND	45.88	93.6		40 - 125
Fluoranthene	49.00	ND	41.15	84.0		55 - 115
Fluorene	49.00	ND	40.46	82.6		50 - 110
Hexachlorobenzene	49.00	ND	38.30	78.2		50 - 110
Hexachlorobutadiene	49.00	ND	30.26	61.7		25 - 105
Hexachlorocyclopentadiene	49.00	ND	21.23	43.3		10 - 110
Hexachloroethane	49.00	ND	28.75	58.7		30 - 95
Indeno(1,2,3-cd)pyrene	49.00	ND	42.06	85.8		45 - 125
Isophorone	49.00	ND	32.94	67.2		50 - 110
1-Methylnaphthalene	50.00	ND	39.48	79.0		30 - 115
2-Methylnaphthalene	49.00	ND	35.53	72.5		45 - 105
2-Methylphenol	100.0	ND	55.84	55.8		40 - 110
3-Methylphenol/4-Methylphenol	100.0	ND	48.51	48.5		30 - 110
Naphthalene	49.00	ND	36.82	75.1		40 - 100
4-Nitroaniline	50.00	ND	42.35	84.7		35 - 120
3-Nitroaniline	50.00	ND	38.11	76.2		20 - 125
2-Nitroaniline	50.00	ND	48.66	97.3		50 - 115
Nitrobenzene	49.00	ND	35.58	72.6		30 - 110
4-Nitrophenol	100.0	ND	21.47	21.5		0 - 125
2-Nitrophenol	100.0	ND	78.39	78.4		40 - 115
N-Nitrosodiphenylamine	49.00	ND	36.50	74.5		50 - 110
N-Nitroso-di-n-propylamine	49.00	ND	38.74	79.1		35 - 130
Pentachlorophenol	100.0	ND	77.60	77.6		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G20119

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	49.00	ND	43.11	88.0		50 - 115
Phenol	100.0	ND	19.50	19.5		0 - 115
Pyrene	49.00	ND	43.79	89.4		50 - 130
2,4,6-Trichlorophenol	100.0	ND	70.76	70.8		50 - 115
2,4,5-Trichlorophenol	100.0	ND	76.81	76.8		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G20119

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	49.00	37.80	77.1	7.36		30	45 - 110
Acenaphthylene	49.00	38.77	79.1	1.59		30	50 - 105
Acetophenone	50.00	39.96	79.9	0.582		30	50 - 110
Anthracene	49.00	40.20	82.0	1.13		30	55 - 110
Atrazine	50.00	44.74	89.5	0.354		30	70 - 115
Benzaldehyde	50.00	39.82	79.6	3.47		30	10 - 180
Benzidine	50.00	100 U	0			30	0 - 200
Benzo(a)anthracene	49.00	40.55	82.8	2.88		30	55 - 110
Benzo(a)pyrene	49.00	40.75	83.2	1.96		30	55 - 110
Benzo(b)fluoranthene	49.00	41.63	85.0	6.81		30	45 - 120
Benzo(g,h,i)perylene	49.00	42.08	85.9	2.22		30	40 - 125
Benzoic acid	100.0	18.05	18.1	11.0		30	0 - 125
Benzo(k)fluoranthene	49.00	43.86	89.5	3.81		30	45 - 125
1,1-Biphenyl	50.00	44.89	89.8	4.58		30	50 - 110
4-Bromophenyl-phenylether	49.00	41.57	84.8	7.33		30	50 - 115
Butylbenzylphthalate	49.00	47.83	97.6	2.78		30	45 - 115
Caprolactam	50.00	6.081	12.2	8.70		30	10 - 110
Carbazole	50.00	47.96	95.9	0.212		30	50 - 115
4-Chloro-3-methylphenol	100.0	69.03	69.0	8.44		30	45 - 110
4-Chloroaniline	50.00	34.72	69.4	2.89		30	15 - 110
Bis(2-chloroethoxy)methane	49.00	38.92	79.4	0.922		30	45 - 105
Bis(2-chloroethyl)ether	49.00	35.32	72.1	1.53		30	35 - 110
2,2'-Oxybis-1-chloropropane	49.00	43.99	89.8	2.52		30	25 - 130
2-Chloronaphthalene	49.00	34.91	71.2	1.99		30	50 - 105
2-Chlorophenol	100.0	61.61	61.6	4.34		30	35 - 105
4-Chlorophenyl phenyl ether	49.00	38.90	79.4	5.01		30	50 - 110
Chrysene	49.00	42.58	86.9	2.98		30	55 - 110
Dibenz(a,h)anthracene	49.00	41.73	85.2	2.06		30	40 - 125
Dibenzofuran	49.00	36.60	74.7	2.61		30	55 - 105
Di-n-butylphthalate	49.00	43.81	89.4	2.40		30	55 - 115
3,3'-Dichlorobenzidine	50.00	41.03	82.1	3.81		30	20 - 110
2,4-Dichlorophenol	100.0	68.31	68.3	8.09		30	40 - 110
Diethylphthalate	49.00	40.20	82.0	6.26		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G20119

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	100.0	74.75	74.7	1.06		30	30 - 110
Dimethyl phthalate	49.00	40.29	82.2	5.46		30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	72.07	72.1	1.85		30	40 - 130
2,4-Dinitrophenol	100.0	60.19	60.2	1.90		30	15 - 140
2,4-Dinitrotoluene	49.00	38.63	78.8	3.83		30	50 - 120
2,6-Dinitrotoluene	49.00	38.57	78.7	8.31		30	50 - 115
Di-n-octylphthalate	49.00	45.38	92.6	3.38		30	35 - 135
1,2-Diphenylhydrazine	50.00	47.50	95.0	1.42		30	55 - 115
Bis(2-ethylhexyl)phthalate	49.00	46.38	94.7	1.09		30	40 - 125
Fluoranthene	49.00	40.61	82.9	1.32		30	55 - 115
Fluorene	49.00	39.33	80.3	2.82		30	50 - 110
Hexachlorobenzene	49.00	37.80	77.1	1.32		30	50 - 110
Hexachlorobutadiene	49.00	26.46	54.0	13.4		30	25 - 105
Hexachlorocyclopentadiene	49.00	20.78	42.4	2.15		30	10 - 110
Hexachloroethane	49.00	26.01	53.1	10.0		30	30 - 95
Indeno(1,2,3-cd)pyrene	49.00	42.61	87.0	1.28		30	45 - 125
Isophorone	49.00	32.52	66.4	1.30		30	50 - 110
1-Methylnaphthalene	50.00	37.26	74.5	5.79		30	30 - 115
2-Methylnaphthalene	49.00	33.70	68.8	5.31		30	45 - 105
2-Methylphenol	100.0	54.93	54.9	1.65		30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	47.94	47.9	1.20		30	30 - 110
Naphthalene	49.00	35.99	73.4	2.28		30	40 - 100
4-Nitroaniline	50.00	43.28	86.6	2.16		30	35 - 120
3-Nitroaniline	50.00	38.33	76.7	0.589		30	20 - 125
2-Nitroaniline	50.00	49.93	99.9	2.58		30	50 - 115
Nitrobenzene	49.00	34.95	71.3	1.77		30	30 - 110
4-Nitrophenol	100.0	20.95	21.0	2.43		30	0 - 125
2-Nitrophenol	100.0	71.53	71.5	9.15		30	40 - 115
N-Nitrosodiphenylamine	49.00	35.62	72.7	2.43		30	50 - 110
N-Nitroso-di-n-propylamine	49.00	40.39	82.4	4.19		30	35 - 130
Pentachlorophenol	100.0	73.48	73.5	5.45		30	40 - 115
Phenanthrene	49.00	43.62	89.0	1.18		30	50 - 115
Phenol	100.0	18.75	18.8	3.90		30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G20119

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	49.00	43.52	88.8	0.623		30	50 - 130
2,4,6-Trichlorophenol	100.0	69.04	69.0	2.46		30	50 - 115
2,4,5-Trichlorophenol	100.0	75.65	75.7	1.52		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G20119 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/20/12 12:10	1,060.00	1.00
GW0656	1207102-03	07/20/12 12:10	1,020.00	1.00
GW0657	1207102-05	07/20/12 12:10	1,060.00	1.00
GW0685	1207102-07	07/20/12 12:10	1,000.00	1.00
GW0686	1207102-09	07/20/12 12:10	1,060.00	1.00
GW0737	1207102-11	07/20/12 12:10	1,060.00	1.00
GW0738	1207102-13	07/20/12 12:10	1,060.00	1.00
GW0739	1207102-15	07/20/12 12:10	1,080.00	1.00
GW0743	1207102-17	07/20/12 12:10	1,060.00	1.00
GW0744	1207102-19	07/20/12 12:10	1,070.00	1.00
GW0745	1207102-21	07/20/12 12:10	1,080.00	1.00
GW0746	1207102-23	07/20/12 12:10	1,080.00	1.00
Blank	2G20119-BLK1	07/20/12 12:10	1,000.00	1.00
LCS	2G20119-BS1	07/20/12 12:10	1,000.00	1.00
GW0738	2G20119-MS1	07/20/12 12:10	1,000.00	1.00
GW0738	2G20119-MSD1	07/20/12 12:10	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G23006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0629	1207107-01	07/23/12 14:10	1,020.00	1.00
GW0643	1207107-03	07/23/12 14:10	1,040.00	1.00
GW0653	1207107-05	07/23/12 14:10	1,060.00	1.00
GW0654	1207107-07	07/23/12 14:10	1,040.00	1.00
GW0730	1207107-09	07/23/12 14:10	1,040.00	1.00
GW0732	1207107-11	07/23/12 14:10	1,060.00	1.00
Blank	2G23006-BLK1	07/23/12 14:10	1,000.00	1.00
LCS	2G23006-BS1	07/23/12 14:10	1,000.00	1.00
LCS Dup	2G23006-BSD1	07/23/12 14:10	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
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_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/26/12
Instrument ID:	MS-BNA1	Injection Time:	10:25
Sequence:	2G20806	Lab Sample ID:	2G20806-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	43.5	PASS
68	Less than 2% of 69	1.97	PASS
69	Less than 200% of 198	61.1	PASS
70	Less than 2% of 69	0.151	PASS
127	40 - 60% of 198	55.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.13	PASS
275	10 - 30% of 198	18.2	PASS
365	1 - 200% of 198	2.08	PASS
441	0.001 - 100% of 443	78.7	PASS
442	40 - 200% of 198	53.5	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/30/12
Instrument ID:	MS-BNA1	Injection Time:	11:55
Sequence:	2G21305	Lab Sample ID:	2G21305-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	51.8	PASS
68	Less than 2% of 69	1.77	PASS
69	Less than 200% of 198	68.1	PASS
70	Less than 2% of 69	0.591	PASS
127	40 - 60% of 198	56.9	PASS
197	Less than 1% of 198	0.0372	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.39	PASS
275	10 - 30% of 198	18.1	PASS
365	1 - 200% of 198	1.88	PASS
441	0.001 - 100% of 443	83.1	PASS
442	40 - 200% of 198	73.5	PASS
443	17 - 23% of 442	17.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20806	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G20806-TUN1	SEQ-TUN1.D	07/26/12 10:25
Calibration Check	2G20806-CCV1	SEQ-CCV1.D	07/26/12 10:49
Calibration Check	2G20806-CCV2	SEQ-CCV2.D	07/26/12 11:16
Blank	2G23006-BLK1	G23006B1.D	07/26/12 11:44
LCS	2G23006-BS1	G23006L1.D	07/26/12 12:12
LCS Dup	2G23006-BSD1	G23006L2.D	07/26/12 12:40
GW0629	1207107-01	0710701.D	07/26/12 17:24
GW0643	1207107-03	0710703.D	07/26/12 17:53
GW0653	1207107-05	0710705.D	07/26/12 18:21
GW0654	1207107-07	0710707.D	07/26/12 18:50
GW0730	1207107-09	0710709.D	07/26/12 19:18
GW0732	1207107-11	0710711.D	07/26/12 19:46

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G21305-TUN1	SEQ-TUN1.D	07/30/12 11:55
Calibration Check	2G21305-CCV1	SEQ-CCV1.D	07/30/12 12:18
Calibration Check	2G21305-CCV2	SEQ-CCV2.D	07/30/12 12:46
Blank	2G20119-BLK1	G20119B1.D	07/30/12 13:21
LCS	2G20119-BS1	G20119L1.D	07/30/12 13:49
GW0685	1207102-07	0710207.D	07/30/12 14:17
GW0686	1207102-09	0710209.D	07/30/12 14:45
GW0655	1207102-01	0710201.D	07/30/12 15:13
GW0656	1207102-03	0710203.D	07/30/12 15:41
GW0657	1207102-05	0710205.D	07/30/12 16:09
GW0737	1207102-11	0710211.D	07/30/12 16:37
GW0738	1207102-13	0710213.D	07/30/12 17:05
GW0738	2G20119-MS1	0710213M.D	07/30/12 17:33
GW0738	2G20119-MSD1	0710213S.D	07/30/12 18:01
GW0739	1207102-15	0710215.D	07/30/12 18:29
GW0743	1207102-17	0710217.D	07/30/12 18:57
GW0744	1207102-19	0710219.D	07/30/12 19:24
GW0745	1207102-21	0710221.D	07/30/12 19:52
GW0746	1207102-23	0710223.D	07/30/12 20:20

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20806	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G20806-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/26/12 10:49			
1,4-Dichlorobenzene-d4	569045	5.153	567077	5.575	100	50 - 200	-0.4220	+/-0.50	
Naphthalene-d8	2309880	6.855	2257819	7.266	102	50 - 200	-0.4110	+/-0.50	
Acenaphthene-d10	1009453	9.097	1041422	9.511	97	50 - 200	-0.4140	+/-0.50	
Phenanthrene-d10	1661688	10.882	1729504	11.304	96	50 - 200	-0.4220	+/-0.50	
Chrysene-d12	1298823	14.179	1493143	14.683	87	50 - 200	-0.5040	+/-0.50	
Perylene-d12	1101463	16.321	1350302	16.936	82	50 - 200	-0.6150	+/-0.50	
Calibration Check (2G20806-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/26/12 11:16			
1,4-Dichlorobenzene-d4	554373	5.154	569045	5.153	97	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2188924	6.854	2309880	6.855	95	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	944917	9.095	1009453	9.097	94	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1545556	10.883	1661688	10.882	93	50 - 200	0.0010	+/-0.50	
Chrysene-d12	1251323	14.174	1298823	14.179	96	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1019876	16.32	1101463	16.321	93	50 - 200	-0.0010	+/-0.50	
Blank (2G23006-BLK1)			Lab File ID: G23006B1.D			Analyzed: 07/26/12 11:44			
1,4-Dichlorobenzene-d4	478562	5.151	569045	5.153	84	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1934154	6.853	2309880	6.855	84	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	843507	9.101	1009453	9.097	84	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1319325	10.879	1661688	10.882	79	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1094664	14.174	1298823	14.179	84	50 - 200	-0.0050	+/-0.50	
Perylene-d12	882520	16.319	1101463	16.321	80	50 - 200	-0.0020	+/-0.50	
LCS (2G23006-BS1)			Lab File ID: G23006L1.D			Analyzed: 07/26/12 12:12			
1,4-Dichlorobenzene-d4	459954	5.152	569045	5.153	81	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1825387	6.856	2309880	6.855	79	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	790937	9.099	1009453	9.097	78	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	1252338	10.884	1661688	10.882	75	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1042567	14.182	1298823	14.179	80	50 - 200	0.0030	+/-0.50	
Perylene-d12	860629	16.317	1101463	16.321	78	50 - 200	-0.0040	+/-0.50	
LCS Dup (2G23006-BSD1)			Lab File ID: G23006L2.D			Analyzed: 07/26/12 12:40			
1,4-Dichlorobenzene-d4	497705	5.154	569045	5.153	87	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1984132	6.858	2309880	6.855	86	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	873641	9.104	1009453	9.097	87	50 - 200	0.0070	+/-0.50	
Phenanthrene-d10	1360440	10.887	1661688	10.882	82	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1124486	14.178	1298823	14.179	87	50 - 200	-0.0010	+/-0.50	
Perylene-d12	929233	16.316	1101463	16.321	84	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20806	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0629 (1207107-01)			Lab File ID: 0710701.D			Analyzed: 07/26/12 17:24			
1,4-Dichlorobenzene-d4	484670	5.162	569045	5.153	85	50 - 200	0.0090	+/-0.50	
Naphthalene-d8	1938324	6.853	2309880	6.855	84	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	859407	9.101	1009453	9.097	85	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1299800	10.888	1661688	10.882	78	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1089061	14.182	1298823	14.179	84	50 - 200	0.0030	+/-0.50	
Perylene-d12	896782	16.321	1101463	16.321	81	50 - 200	0.0000	+/-0.50	
GW0643 (1207107-03)			Lab File ID: 0710703.D			Analyzed: 07/26/12 17:53			
1,4-Dichlorobenzene-d4	473701	5.16	569045	5.153	83	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	1875892	6.86	2309880	6.855	81	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	848598	9.097	1009453	9.097	84	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1287785	10.885	1661688	10.882	77	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1058873	14.175	1298823	14.179	82	50 - 200	-0.0040	+/-0.50	
Perylene-d12	879984	16.323	1101463	16.321	80	50 - 200	0.0020	+/-0.50	
GW0653 (1207107-05)			Lab File ID: 0710705.D			Analyzed: 07/26/12 18:21			
1,4-Dichlorobenzene-d4	512975	5.16	569045	5.153	90	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	2085019	6.852	2309880	6.855	90	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	906290	9.1	1009453	9.097	90	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1391678	10.888	1661688	10.882	84	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1170201	14.183	1298823	14.179	90	50 - 200	0.0040	+/-0.50	
Perylene-d12	949004	16.319	1101463	16.321	86	50 - 200	-0.0020	+/-0.50	
GW0654 (1207107-07)			Lab File ID: 0710707.D			Analyzed: 07/26/12 18:50			
1,4-Dichlorobenzene-d4	484476	5.16	569045	5.153	85	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	1969101	6.852	2309880	6.855	85	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	849599	9.102	1009453	9.097	84	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1335767	10.891	1661688	10.882	80	50 - 200	0.0090	+/-0.50	
Chrysene-d12	1052001	14.175	1298823	14.179	81	50 - 200	-0.0040	+/-0.50	
Perylene-d12	891218	16.324	1101463	16.321	81	50 - 200	0.0030	+/-0.50	
GW0730 (1207107-09)			Lab File ID: 0710709.D			Analyzed: 07/26/12 19:18			
1,4-Dichlorobenzene-d4	537340	5.162	569045	5.153	94	50 - 200	0.0090	+/-0.50	
Naphthalene-d8	2212788	6.852	2309880	6.855	96	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	968436	9.101	1009453	9.097	96	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1433150	10.887	1661688	10.882	86	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1176036	14.181	1298823	14.179	91	50 - 200	0.0020	+/-0.50	
Perylene-d12	1015345	16.318	1101463	16.321	92	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20806	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0732 (1207107-11)			Lab File ID: 0710711.D			Analyzed: 07/26/12 19:46			
1,4-Dichlorobenzene-d4	529324	5.153	569045	5.153	93	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2151055	6.855	2309880	6.855	93	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	927378	9.105	1009453	9.097	92	50 - 200	0.0080	+/-0.50	
Phenanthrene-d10	1423005	10.885	1661688	10.882	86	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1201167	14.18	1298823	14.179	92	50 - 200	0.0010	+/-0.50	
Perylene-d12	971841	16.318	1101463	16.321	88	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G21305-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/30/12 12:18			
1,4-Dichlorobenzene-d4	531589	5.149	567077	5.575	94	50 - 200	-0.4260	+/-0.50	
Naphthalene-d8	2136106	6.85	2257819	7.266	95	50 - 200	-0.4160	+/-0.50	
Acenaphthene-d10	963438	9.095	1041422	9.511	93	50 - 200	-0.4160	+/-0.50	
Phenanthrene-d10	1476713	10.878	1729504	11.304	85	50 - 200	-0.4260	+/-0.50	
Chrysene-d12	1235016	14.178	1493143	14.683	83	50 - 200	-0.5050	+/-0.50	
Perylene-d12	1014185	16.317	1350302	16.936	75	50 - 200	-0.6190	+/-0.50	
Calibration Check (2G21305-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/30/12 12:46			
1,4-Dichlorobenzene-d4	544725	5.148	531589	5.149	102	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2179311	6.846	2136106	6.85	102	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	944417	9.093	963438	9.095	98	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1491101	10.878	1476713	10.878	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1255592	14.17	1235016	14.178	102	50 - 200	-0.0080	+/-0.50	
Perylene-d12	994688	16.31	1014185	16.317	98	50 - 200	-0.0070	+/-0.50	
Blank (2G20119-BLK1)			Lab File ID: G20119B1.D			Analyzed: 07/30/12 13:21			
1,4-Dichlorobenzene-d4	453079	5.149	531589	5.149	85	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1756104	6.847	2136106	6.85	82	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	766581	9.093	963438	9.095	80	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1187838	10.881	1476713	10.878	80	50 - 200	0.0030	+/-0.50	
Chrysene-d12	981952	14.174	1235016	14.178	80	50 - 200	-0.0040	+/-0.50	
Perylene-d12	786962	16.316	1014185	16.317	78	50 - 200	-0.0010	+/-0.50	
LCS (2G20119-BS1)			Lab File ID: G20119L1.D			Analyzed: 07/30/12 13:49			
1,4-Dichlorobenzene-d4	451116	5.15	531589	5.149	85	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1752536	6.85	2136106	6.85	82	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	780016	9.099	963438	9.095	81	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1247902	10.88	1476713	10.878	85	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1017555	14.174	1235016	14.178	82	50 - 200	-0.0040	+/-0.50	
Perylene-d12	823439	16.317	1014185	16.317	81	50 - 200	0.0000	+/-0.50	
GW0685 (1207102-07)			Lab File ID: 0710207.D			Analyzed: 07/30/12 14:17			
1,4-Dichlorobenzene-d4	425300	5.149	531589	5.149	80	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1708510	6.849	2136106	6.85	80	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	747139	9.092	963438	9.095	78	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1180057	10.883	1476713	10.878	80	50 - 200	0.0050	+/-0.50	
Chrysene-d12	951951	14.176	1235016	14.178	77	50 - 200	-0.0020	+/-0.50	
Perylene-d12	779282	16.312	1014185	16.317	77	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0686 (1207102-09)			Lab File ID: 0710209.D			Analyzed: 07/30/12 14:45			
1,4-Dichlorobenzene-d4	414115	5.157	531589	5.149	78	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1680163	6.847	2136106	6.85	79	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	720850	9.094	963438	9.095	75	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1107409	10.882	1476713	10.878	75	50 - 200	0.0040	+/-0.50	
Chrysene-d12	905677	14.175	1235016	14.178	73	50 - 200	-0.0030	+/-0.50	
Perylene-d12	769918	16.314	1014185	16.317	76	50 - 200	-0.0030	+/-0.50	
GW0655 (1207102-01)			Lab File ID: 0710201.D			Analyzed: 07/30/12 15:13			
1,4-Dichlorobenzene-d4	424005	5.149	531589	5.149	80	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1720675	6.847	2136106	6.85	81	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	725653	9.092	963438	9.095	75	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1142946	10.878	1476713	10.878	77	50 - 200	0.0000	+/-0.50	
Chrysene-d12	941056	14.177	1235016	14.178	76	50 - 200	-0.0010	+/-0.50	
Perylene-d12	766243	16.317	1014185	16.317	76	50 - 200	0.0000	+/-0.50	
GW0656 (1207102-03)			Lab File ID: 0710203.D			Analyzed: 07/30/12 15:41			
1,4-Dichlorobenzene-d4	433816	5.152	531589	5.149	82	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1736598	6.852	2136106	6.85	81	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	784411	9.099	963438	9.095	81	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1181417	10.878	1476713	10.878	80	50 - 200	0.0000	+/-0.50	
Chrysene-d12	983642	14.17	1235016	14.178	80	50 - 200	-0.0080	+/-0.50	
Perylene-d12	799415	16.319	1014185	16.317	79	50 - 200	0.0020	+/-0.50	
GW0657 (1207102-05)			Lab File ID: 0710205.D			Analyzed: 07/30/12 16:09			
1,4-Dichlorobenzene-d4	428136	5.156	531589	5.149	81	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	1775862	6.853	2136106	6.85	83	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	752840	9.1	963438	9.095	78	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1174993	10.886	1476713	10.878	80	50 - 200	0.0080	+/-0.50	
Chrysene-d12	977336	14.17	1235016	14.178	79	50 - 200	-0.0080	+/-0.50	
Perylene-d12	803734	16.313	1014185	16.317	79	50 - 200	-0.0040	+/-0.50	
GW0737 (1207102-11)			Lab File ID: 0710211.D			Analyzed: 07/30/12 16:37			
1,4-Dichlorobenzene-d4	398744	5.155	531589	5.149	75	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	1575437	6.855	2136106	6.85	74	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	686468	9.091	963438	9.095	71	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1101777	10.879	1476713	10.878	75	50 - 200	0.0010	+/-0.50	
Chrysene-d12	845107	14.172	1235016	14.178	68	50 - 200	-0.0060	+/-0.50	
Perylene-d12	704716	16.313	1014185	16.317	69	50 - 200	-0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0738 (1207102-13)			Lab File ID: 0710213.D			Analyzed: 07/30/12 17:05			
1,4-Dichlorobenzene-d4	461189	5.157	531589	5.149	87	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1860196	6.846	2136106	6.85	87	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	806833	9.094	963438	9.095	84	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1215167	10.885	1476713	10.878	82	50 - 200	0.0070	+/-0.50	
Chrysene-d12	1012447	14.172	1235016	14.178	82	50 - 200	-0.0060	+/-0.50	
Perylene-d12	832820	16.313	1014185	16.317	82	50 - 200	-0.0040	+/-0.50	
Matrix Spike (2G20119-MS1)			Lab File ID: 0710213M.D			Analyzed: 07/30/12 17:33			
1,4-Dichlorobenzene-d4	419086	5.15	531589	5.149	79	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1614542	6.852	2136106	6.85	76	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	751564	9.092	963438	9.095	78	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1122447	10.883	1476713	10.878	76	50 - 200	0.0050	+/-0.50	
Chrysene-d12	933551	14.179	1235016	14.178	76	50 - 200	0.0010	+/-0.50	
Perylene-d12	779457	16.319	1014185	16.317	77	50 - 200	0.0020	+/-0.50	
Matrix Spike Dup (2G20119-MSD1)			Lab File ID: 0710213S.D			Analyzed: 07/30/12 18:01			
1,4-Dichlorobenzene-d4	467547	5.149	531589	5.149	88	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1850007	6.851	2136106	6.85	87	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	811670	9.101	963438	9.095	84	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	1247046	10.885	1476713	10.878	84	50 - 200	0.0070	+/-0.50	
Chrysene-d12	1081403	14.174	1235016	14.178	88	50 - 200	-0.0040	+/-0.50	
Perylene-d12	874325	16.322	1014185	16.317	86	50 - 200	0.0050	+/-0.50	
GW0739 (1207102-15)			Lab File ID: 0710215.D			Analyzed: 07/30/12 18:29			
1,4-Dichlorobenzene-d4	440616	5.157	531589	5.149	83	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1734669	6.846	2136106	6.85	81	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	765712	9.093	963438	9.095	79	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1172656	10.879	1476713	10.878	79	50 - 200	0.0010	+/-0.50	
Chrysene-d12	957228	14.173	1235016	14.178	78	50 - 200	-0.0050	+/-0.50	
Perylene-d12	810199	16.32	1014185	16.317	80	50 - 200	0.0030	+/-0.50	
GW0743 (1207102-17)			Lab File ID: 0710217.D			Analyzed: 07/30/12 18:57			
1,4-Dichlorobenzene-d4	435879	5.148	531589	5.149	82	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1694508	6.849	2136106	6.85	79	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	727582	9.092	963438	9.095	76	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1124416	10.879	1476713	10.878	76	50 - 200	0.0010	+/-0.50	
Chrysene-d12	966689	14.172	1235016	14.178	78	50 - 200	-0.0060	+/-0.50	
Perylene-d12	786981	16.32	1014185	16.317	78	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21305	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0744 (1207102-19)			Lab File ID: 0710219.D			Analyzed: 07/30/12 19:24			
1,4-Dichlorobenzene-d4	429625	5.149	531589	5.149	81	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1692324	6.848	2136106	6.85	79	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	759515	9.094	963438	9.095	79	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1161093	10.883	1476713	10.878	79	50 - 200	0.0050	+/-0.50	
Chrysene-d12	935225	14.169	1235016	14.178	76	50 - 200	-0.0090	+/-0.50	
Perylene-d12	799598	16.316	1014185	16.317	79	50 - 200	-0.0010	+/-0.50	
GW0745 (1207102-21)			Lab File ID: 0710221.D			Analyzed: 07/30/12 19:52			
1,4-Dichlorobenzene-d4	424683	5.147	531589	5.149	80	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1726740	6.846	2136106	6.85	81	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	744497	9.093	963438	9.095	77	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1193060	10.882	1476713	10.878	81	50 - 200	0.0040	+/-0.50	
Chrysene-d12	929412	14.175	1235016	14.178	75	50 - 200	-0.0030	+/-0.50	
Perylene-d12	767360	16.317	1014185	16.317	76	50 - 200	0.0000	+/-0.50	
GW0746 (1207102-23)			Lab File ID: 0710223.D			Analyzed: 07/30/12 20:20			
1,4-Dichlorobenzene-d4	496310	5.148	531589	5.149	93	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1939617	6.848	2136106	6.85	91	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	865878	9.093	963438	9.095	90	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1329166	10.88	1476713	10.878	90	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1094459	14.172	1235016	14.178	89	50 - 200	-0.0060	+/-0.50	
Perylene-d12	884332	16.314	1014185	16.317	87	50 - 200	-0.0030	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
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_057
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_057
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_057
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_057
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_057	
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_057
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_057	
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_057	
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_057
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_057
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_057
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_057
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_057
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_057
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_057
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_057
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_057
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_057
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:	2G20806	Injection Date:	07/26/12
Lab Sample ID:	2G20806-CCV1	Injection Time:	10:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	50.84	1.136987	1.156025	0.9	1.7	20	
Acenaphthylene	A	50.00	51.80	1.876142	1.943854	0.9	3.6	20	
Anthracene	A	50.00	49.34	1.054797	1.040793	0.7	-1.3	20	
Benzo(a)anthracene	A	50.00	50.42	1.127046	1.136612	0.8	0.8	20	
Benzo(a)pyrene	A	50.00	49.72	1.037678	1.031871	0.7	-0.6	20	
Benzo(b)fluoranthene	A	50.00	50.46	1.119538	1.129753	0.7	0.9	20	
Benzo(g,h,i)perylene	A	50.00	51.99	0.9327314	0.9699137	0.5	4.0	20	
Benzoic acid	L	50.00	48.41	0.2119614	0.2079734	0.01	-3.2	20	
Benzo(k)fluoranthene	A	50.00	51.14	1.183338	1.210259	0.7	2.3	20	
4-Bromophenyl-phenylether	A	50.00	48.84	0.1888061	0.1844081	0.1	-2.3	20	
Butylbenzylphthalate	A	50.00	56.13	0.6706426	0.7528465	0.01	12.3	20	
Carbazole	A	50.00	51.21	1.013887	1.038487	0.01	2.4	20	
4-Chloro-3-methylphenol	A	50.00	48.54	0.2913522	0.2828185	0.2	-2.9	20	
4-Chloroaniline	A	50.00	49.46	0.4367423	0.4319992	0.01	-1.1	20	
Bis(2-chloroethoxy)methane	A	50.00	46.25	0.5182488	0.479362	0.3	-7.5	20	
Bis(2-chloroethyl)ether	A	50.00	45.90	1.849551	1.697969	0.7	-8.2	20	
2,2'-Oxybis-1-chloropropane	A	50.00	60.22	2.322149	2.796601	0.01	20.4	20	*
2-Chloronaphthalene	A	50.00	48.64	1.14673	1.11559	0.8	-2.7	20	
2-Chlorophenol	A	50.00	50.41	1.49343	1.505671	0.8	0.8	20	
4-Chlorophenyl phenyl ether	A	50.00	49.98	0.5655923	0.5653557	0.4	-0.04	20	
Chrysene	A	50.00	49.08	1.056978	1.037467	0.7	-1.8	20	
Dibenz(a,h)anthracene	A	50.00	51.78	0.927476	0.9605341	0.4	3.6	20	
Dibenzofuran	A	50.00	49.38	1.556891	1.537453	0.8	-1.2	20	
Di-n-butylphthalate	A	50.00	52.18	1.422346	1.484283	0.01	4.4	20	
2,4-Dichlorophenol	A	50.00	48.32	0.241012	0.2328949	0.2	-3.4	20	
Diethylphthalate	A	50.00	52.31	1.3631	1.426205	0.01	4.6	20	
2,4-Dimethylphenol	A	50.00	46.76	0.3519307	0.3291534	0.2	-6.5	20	
Dimethyl phthalate	A	50.00	49.94	1.312894	1.31141	0.01	-0.1	20	
4,6-Dinitro-2-methylphenol	L	50.00	46.45	0.1423453	0.1416839	0.01	-7.1	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G20806	Injection Date:	07/26/12
Lab Sample ID:	2G20806-CCV1	Injection Time:	10:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	45.14	0.189189	0.1822674	0.01	-9.7	20
2,4-Dinitrotoluene	A	50.00	49.78	0.4026331	0.4008246	0.2	-0.4	20
2,6-Dinitrotoluene	A	50.00	51.77	0.3082828	0.3192161	0.2	3.5	20
Di-n-octylphthalate	L	50.00	53.98	1.691535	2.032288	0.01	8.0	20
1,2-Diphenylhydrazine	A	50.00	48.90	1.206569	1.180031	0.01	-2.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	57.06	0.9262458	1.057065	0.01	14.1	20
Fluoranthene	A	50.00	48.03	1.116696	1.072688	0.6	-3.9	20
Fluorene	A	50.00	55.74	1.192539	1.329534	0.9	11.5	20
Hexachlorobenzene	A	50.00	48.30	0.2086611	0.2015839	0.1	-3.4	20
Hexachlorobutadiene	A	50.00	46.04	0.1401148	0.1290297	0.01	-7.9	20
Hexachlorocyclopentadiene	A	50.00	42.71	0.3377187	0.2884762	0.05	-14.6	20
Hexachloroethane	A	50.00	46.81	0.6768699	0.6336399	0.3	-6.4	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.13	1.101365	1.148336	0.5	4.3	20
Isophorone	A	50.00	46.01	0.8641251	0.7951696	0.4	-8.0	20
1-Methylnaphthalene	A	50.00	49.16	0.4880715	0.479929	0.01	-1.7	20
2-Methylnaphthalene	A	50.00	50.77	0.5061603	0.513964	0.4	1.5	20
2-Methylphenol	A	50.00	49.06	1.397021	1.370727	0.7	-1.9	20
3-Methylphenol/4-Methylphenol	A	50.00	47.65	1.442796	1.374935		-4.7	20
Naphthalene	L	50.00	49.74	1.050386	1.034142	0.7	-0.5	20
4-Nitroaniline	A	50.00	50.86	0.4178622	0.4250801	0.01	1.7	20
3-Nitroaniline	A	50.00	50.52	0.4255398	0.4299746	0.01	1.0	20
2-Nitroaniline	A	50.00	54.36	0.3916404	0.4257593	0.01	8.7	20
Nitrobenzene	A	50.00	48.11	0.4425367	0.4258448	0.2	-3.8	20
4-Nitrophenol	A	50.00	51.08	0.2791278	0.285158	0.01	2.2	20
2-Nitrophenol	A	50.00	49.16	0.1927768	0.1895285	0.1	-1.7	20
N-Nitrosodiphenylamine	A	50.00	49.33	0.6161259	0.607925	0.01	-1.3	20
N-Nitroso-di-n-propylamine	A	50.00	49.38	1.158591	1.144146	0.5	-1.2	20
Pentachlorophenol	L	50.00	47.22	0.1325918	0.1309834	0.05	-5.6	20
Phenanthrene	A	50.00	48.94	1.031015	1.009149	0.7	-2.1	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G20806	Injection Date:	07/26/12
Lab Sample ID:	2G20806-CCV1	Injection Time:	10:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	47.34	2.325149	2.201566	0.8	-5.3	20
Pyrene	A	50.00	54.66	1.294953	1.415707	0.6	9.3	20
2,4,6-Trichlorophenol	A	50.00	50.93	0.3586929	0.3653527	0.2	1.9	20
2,4,5-Trichlorophenol	A	50.00	50.19	0.364007	0.3653765	0.2	0.4	20
2-Fluorobiphenyl	A	50.00	51.32	1.275261	1.308948	0.01	2.6	20
2-Fluorophenol	A	100.0	98.58	1.495125	1.47397	0.01	-1.4	20
Nitrobenzene-d5	A	50.00	45.59	0.4397155	0.4009497	0.01	-8.8	20
Phenol-d6	A	100.0	96.00	1.998108	1.918198	0.01	-4.0	20
Terphenyl-d14	A	50.00	51.89	0.7510018	0.7794127	0.01	3.8	20
2,4,6-Tribromophenol	A	100.0	102.3	0.1098978	0.1123946	0.01	2.3	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_057
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:	2G20806	Injection Date:	07/26/12
Lab Sample ID:	2G20806-CCV2	Injection Time:	11:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	45.38	1.981805	1.798802	0.01	-9.2	20
Atrazine	A	50.00	50.30	0.1871073	0.1882129	0.01	0.6	20
Benzaldehyde	A	50.00	45.02	1.329702	1.19725	0.01	-10.0	20
Benzidine	A	50.00	54.95	0.8176906	0.8986655	0.01	9.9	20
1,1-Biphenyl	A	50.00	50.58	1.459667	1.476766	0.01	1.2	20
Caprolactam	A	50.00	47.49	0.1167348	0.1108782	0.01	-5.0	20
3,3'-Dichlorobenzidine	A	50.00	53.13	0.384325	0.4083697	0.01	6.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G21305	Injection Date:	07/30/12
Lab Sample ID:	2G21305-CCV1	Injection Time:	12:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	50.00	1.136987	1.13701	0.9	0.002	20	
Acenaphthylene	A	50.00	51.99	1.876142	1.950991	0.9	4.0	20	
Anthracene	A	50.00	53.14	1.054797	1.12099	0.7	6.3	20	
Benzo(a)anthracene	A	50.00	48.19	1.127046	1.086283	0.8	-3.6	20	
Benzo(a)pyrene	A	50.00	50.40	1.037678	1.045891	0.7	0.8	20	
Benzo(b)fluoranthene	A	50.00	47.88	1.119538	1.071958	0.7	-4.2	20	
Benzo(g,h,i)perylene	A	50.00	52.13	0.9327314	0.9725121	0.5	4.3	20	
Benzoic acid	L	50.00	45.37	0.2119614	0.1902763	0.01	-9.3	20	
Benzo(k)fluoranthene	A	50.00	54.49	1.183338	1.289522	0.7	9.0	20	
4-Bromophenyl-phenylether	A	50.00	49.98	0.1888061	0.1887235	0.1	-0.04	20	
Butylbenzylphthalate	A	50.00	56.70	0.6706426	0.7605485	0.01	13.4	20	
Carbazole	A	50.00	51.75	1.013887	1.049446	0.01	3.5	20	
4-Chloro-3-methylphenol	A	50.00	46.09	0.2913522	0.2685548	0.2	-7.8	20	
4-Chloroaniline	A	50.00	49.32	0.4367423	0.4307854	0.01	-1.4	20	
Bis(2-chloroethoxy)methane	A	50.00	48.50	0.5182488	0.5026934	0.3	-3.0	20	
Bis(2-chloroethyl)ether	A	50.00	46.96	1.849551	1.737071	0.7	-6.1	20	
2,2'-Oxybis-1-chloropropane	A	50.00	61.02	2.322149	2.834089	0.01	22.0	20	*
2-Chloronaphthalene	A	50.00	51.01	1.14673	1.16992	0.8	2.0	20	
2-Chlorophenol	A	50.00	51.08	1.49343	1.525618	0.8	2.2	20	
4-Chlorophenyl phenyl ether	A	50.00	50.53	0.5655923	0.5715996	0.4	1.1	20	
Chrysene	A	50.00	48.81	1.056978	1.031805	0.7	-2.4	20	
Dibenz(a,h)anthracene	A	50.00	51.14	0.927476	0.9485946	0.4	2.3	20	
Dibenzofuran	A	50.00	49.33	1.556891	1.536134	0.8	-1.3	20	
Di-n-butylphthalate	A	50.00	54.61	1.422346	1.553516	0.01	9.2	20	
2,4-Dichlorophenol	A	50.00	49.51	0.241012	0.2386653	0.2	-1.0	20	
Diethylphthalate	A	50.00	49.20	1.3631	1.341387	0.01	-1.6	20	
2,4-Dimethylphenol	A	50.00	47.59	0.3519307	0.3349905	0.2	-4.8	20	
Dimethyl phthalate	A	50.00	50.06	1.312894	1.314479	0.01	0.1	20	
4,6-Dinitro-2-methylphenol	L	50.00	47.66	0.1423453	0.1459431	0.01	-4.7	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G21305	Injection Date:	07/30/12
Lab Sample ID:	2G21305-CCV1	Injection Time:	12:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	41.00	0.189189	0.1630544	0.01	-18.0	20
2,4-Dinitrotoluene	A	50.00	50.03	0.4026331	0.4028988	0.2	0.07	20
2,6-Dinitrotoluene	A	50.00	49.18	0.3082828	0.3032183	0.2	-1.6	20
Di-n-octylphthalate	L	50.00	52.84	1.691535	1.986824	0.01	5.7	20
1,2-Diphenylhydrazine	A	50.00	53.21	1.206569	1.283982	0.01	6.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.13	0.9262458	1.002758	0.01	8.3	20
Fluoranthene	A	50.00	50.04	1.116696	1.117718	0.6	0.09	20
Fluorene	A	50.00	50.78	1.192539	1.211094	0.9	1.6	20
Hexachlorobenzene	A	50.00	49.76	0.2086611	0.2076482	0.1	-0.5	20
Hexachlorobutadiene	A	50.00	44.63	0.1401148	0.1250672	0.01	-10.7	20
Hexachlorocyclopentadiene	A	50.00	41.29	0.3377187	0.2788945	0.05	-17.4	20
Hexachloroethane	A	50.00	48.45	0.6768699	0.6559142	0.3	-3.1	20
Indeno(1,2,3-cd)pyrene	A	50.00	51.65	1.101365	1.137695	0.5	3.3	20
Isophorone	A	50.00	46.08	0.8641251	0.7963545	0.4	-7.8	20
1-Methylnaphthalene	A	50.00	50.01	0.4880715	0.4881997	0.01	0.03	20
2-Methylnaphthalene	A	50.00	51.28	0.5061603	0.5191435	0.4	2.6	20
2-Methylphenol	A	50.00	49.62	1.397021	1.386315	0.7	-0.8	20
3-Methylphenol/4-Methylphenol	A	50.00	49.34	1.442796	1.423823		-1.3	20
Naphthalene	L	50.00	50.87	1.050386	1.057123	0.7	1.7	20
4-Nitroaniline	A	50.00	49.63	0.4178622	0.4148103	0.01	-0.7	20
3-Nitroaniline	A	50.00	49.78	0.4255398	0.423691	0.01	-0.4	20
2-Nitroaniline	A	50.00	53.29	0.3916404	0.4174276	0.01	6.6	20
Nitrobenzene	A	50.00	49.94	0.4425367	0.4419859	0.2	-0.1	20
4-Nitrophenol	A	50.00	50.94	0.2791278	0.2843716	0.01	1.9	20
2-Nitrophenol	A	50.00	51.20	0.1927768	0.1974228	0.1	2.4	20
N-Nitrosodiphenylamine	A	50.00	50.10	0.6161259	0.6173116	0.01	0.2	20
N-Nitroso-di-n-propylamine	A	50.00	51.64	1.158591	1.196589	0.5	3.3	20
Pentachlorophenol	L	50.00	49.52	0.1325918	0.1378099	0.05	-1.0	20
Phenanthrene	A	50.00	52.22	1.031015	1.076879	0.7	4.4	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G21305	Injection Date:	07/30/12
Lab Sample ID:	2G21305-CCV1	Injection Time:	12:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	48.35	2.325149	2.248256	0.8	-3.3	20
Pyrene	A	50.00	51.20	1.294953	1.325939	0.6	2.4	20
2,4,6-Trichlorophenol	A	50.00	47.98	0.3586929	0.3442023	0.2	-4.0	20
2,4,5-Trichlorophenol	A	50.00	49.06	0.364007	0.3571767	0.2	-1.9	20
2-Fluorobiphenyl	A	50.00	48.89	1.275261	1.247071	0.01	-2.2	20
2-Fluorophenol	A	100.0	100.6	1.495125	1.504674	0.01	0.6	20
Nitrobenzene-d5	A	50.00	46.96	0.4397155	0.4129795	0.01	-6.1	20
Phenol-d6	A	100.0	99.48	1.998108	1.987836	0.01	-0.5	20
Terphenyl-d14	A	50.00	52.02	0.7510018	0.7813062	0.01	4.0	20
2,4,6-Tribromophenol	A	100.0	105.1	0.1098978	0.1155182	0.01	5.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G21305	Injection Date:	07/30/12
Lab Sample ID:	2G21305-CCV2	Injection Time:	12:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	45.66	1.981805	1.809697	0.01	-8.7	20
Atrazine	A	50.00	51.35	0.1871073	0.1921447	0.01	2.7	20
Benzaldehyde	A	50.00	44.36	1.329702	1.1798	0.01	-11.3	20
Benzidine	A	50.00	46.92	0.8176906	0.7673894	0.01	-6.2	20
1,1-Biphenyl	A	50.00	50.76	1.459667	1.481946	0.01	1.5	20
Caprolactam	A	50.00	46.35	0.1167348	0.1082048	0.01	-7.3	20
3,3'-Dichlorobenzidine	A	50.00	49.92	0.384325	0.3836992	0.01	-0.2	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-BLK1 File ID: G20119B1.D

Sampled: Prepared: Analyzed: 07/30/12 13:21

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 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	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

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-BLK1 File ID: G20119B1.D

Sampled: Prepared: Analyzed: 07/30/12 13:21

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 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	37.88	75.8	50 - 110	
2-Fluorophenol	100.0	32.20	32.2	20 - 110	
Nitrobenzene-d5	50.00	34.06	68.1	40 - 110	
Phenol-d6	100.0	16.82	16.8	0 - 110	
Terphenyl-d14	50.00	46.64	93.3	50 - 135	
2,4,6-Tribromophenol	100.0	76.90	76.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_057

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

Matrix: | Laboratory ID: 2G20119-BS1 | File ID: G20119L1.D

Sampled: | Prepared: | Analyzed: 07/30/12 13:49

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2G20119 | Sequence: 2G21305 | Calibration: 2156006 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	38.75	1.25	2.50	5.00	
208-96-8	Acenaphthylene	41.16	1.25	2.50	5.00	
98-86-2	Acetophenone	39.82	1.25	2.50	5.00	
120-12-7	Anthracene	39.80	1.25	2.50	5.00	
1912-24-9	Atrazine	43.47	1.25	2.50	5.00	
100-52-7	Benzaldehyde	38.37	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	40.95	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	42.46	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	44.22	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	43.56	1.25	2.50	5.00	
65-85-0	Benzoic acid	14.00	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	43.31	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	44.97	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	38.73	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	46.32	1.25	2.50	5.00	
105-60-2	Caprolactam	6.888	1.25	2.50	5.00	
86-74-8	Carbazole	47.02	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	77.51	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	37.74	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	39.80	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	35.91	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	44.96	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	37.37	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	72.74	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	42.11	1.25	2.50	5.00	
218-01-9	Chrysene	41.88	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	42.02	1.25	2.50	5.00	
132-64-9	Dibenzofuran	39.51	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	43.05	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	43.25	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	79.81	1.25	2.50	5.00	
84-66-2	Diethylphthalate	41.40	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	80.25	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	39.95	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	78.16	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	65.68	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	38.23	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	39.08	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	45.32	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-BS1 File ID: G20119L1.D

Sampled: Prepared: Analyzed: 07/30/12 13:49

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	47.35	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	45.70	1.25	2.50	5.00	
206-44-0	Fluoranthene	40.05	1.25	2.50	5.00	
86-73-7	Fluorene	41.55	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	38.86	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	32.28	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	24.04	1.25	5.00	10.0	
67-72-1	Hexachloroethane	29.76	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	43.23	1.25	2.50	5.00	
78-59-1	Isophorone	33.03	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	42.20	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	36.86	1.25	2.50	5.00	
95-48-7	2-Methylphenol	59.75	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	53.77	1.25	2.50	5.00	
91-20-3	Naphthalene	38.55	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	44.42	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	41.32	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	52.37	5.00	10.0	20.0	
98-95-3	Nitrobenzene	36.08	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	24.54	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	83.74	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	34.92	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	40.93	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	76.56	5.00	10.0	20.0	
85-01-8	Phenanthrene	42.52	1.25	2.50	5.00	
108-95-2	Phenol	21.88	1.25	2.50	5.00	
129-00-0	Pyrene	43.14	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	80.26	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	85.36	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.13	90.3	50 - 110	
2-Fluorophenol	100.0	37.93	37.9	20 - 110	
Nitrobenzene-d5	50.00	39.71	79.4	40 - 110	
Phenol-d6	100.0	21.17	21.2	0 - 110	
Terphenyl-d14	50.00	46.69	93.4	50 - 135	
2,4,6-Tribromophenol	100.0	83.98	84.0	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-MS1 File ID: 0710213M.D

Sampled: Prepared: Analyzed: 07/30/12 17:33

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	35.12	1.25	2.50	5.00	
208-96-8	Acenaphthylene	38.16	1.25	2.50	5.00	
98-86-2	Acetophenone	39.73	1.25	2.50	5.00	
120-12-7	Anthracene	39.75	1.25	2.50	5.00	
1912-24-9	Atrazine	44.58	1.25	2.50	5.00	
100-52-7	Benzaldehyde	38.46	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	41.73	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	41.55	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	44.57	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	43.02	1.25	2.50	5.00	
65-85-0	Benzoic acid	16.17	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	42.22	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	42.88	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	38.63	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	46.51	1.25	2.50	5.00	
105-60-2	Caprolactam	5.574	1.25	2.50	5.00	
86-74-8	Carbazole	47.85	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	75.12	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	35.74	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	38.56	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	34.78	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	45.12	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	34.22	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	64.35	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	37.00	1.25	2.50	5.00	
218-01-9	Chrysene	43.87	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	40.88	1.25	2.50	5.00	
132-64-9	Dibenzofuran	35.65	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	42.77	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	42.62	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	74.07	1.25	2.50	5.00	
84-66-2	Diethylphthalate	37.75	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	73.96	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	38.15	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	73.41	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	59.05	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	37.18	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	35.49	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	43.87	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-MS1 File ID: 0710213M.D

Sampled: Prepared: Analyzed: 07/30/12 17:33

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	48.17	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	45.88	1.25	2.50	5.00	
206-44-0	Fluoranthene	41.15	1.25	2.50	5.00	
86-73-7	Fluorene	40.46	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	38.30	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	30.26	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	21.23	1.25	5.00	10.0	
67-72-1	Hexachloroethane	28.75	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	42.06	1.25	2.50	5.00	
78-59-1	Isophorone	32.94	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	39.48	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	35.53	1.25	2.50	5.00	
95-48-7	2-Methylphenol	55.84	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	48.51	1.25	2.50	5.00	
91-20-3	Naphthalene	36.82	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	42.35	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.11	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	48.66	5.00	10.0	20.0	
98-95-3	Nitrobenzene	35.58	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	21.47	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	78.39	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	36.50	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	38.74	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	77.60	5.00	10.0	20.0	
85-01-8	Phenanthrene	43.11	1.25	2.50	5.00	
108-95-2	Phenol	19.50	1.25	2.50	5.00	
129-00-0	Pyrene	43.79	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	70.76	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	76.81	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.65	79.3	50 - 110	
2-Fluorophenol	100.0	32.28	32.3	20 - 110	
Nitrobenzene-d5	50.00	38.07	76.1	40 - 110	
Phenol-d6	100.0	17.80	17.8	0 - 110	
Terphenyl-d14	50.00	45.16	90.3	50 - 135	
2,4,6-Tribromophenol	100.0	77.75	77.7	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-MSD1 File ID: 0710213S.D

Sampled: Prepared: Analyzed: 07/30/12 18:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	37.80	1.25	2.50	5.00	
208-96-8	Acenaphthylene	38.77	1.25	2.50	5.00	
98-86-2	Acetophenone	39.96	1.25	2.50	5.00	
120-12-7	Anthracene	40.20	1.25	2.50	5.00	
1912-24-9	Atrazine	44.74	1.25	2.50	5.00	
100-52-7	Benzaldehyde	39.82	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	40.55	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	40.75	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	41.63	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	42.08	1.25	2.50	5.00	
65-85-0	Benzoic acid	18.05	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	43.86	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	44.89	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	41.57	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	47.83	1.25	2.50	5.00	
105-60-2	Caprolactam	6.081	1.25	2.50	5.00	
86-74-8	Carbazole	47.96	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	69.03	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.72	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	38.92	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	35.32	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	43.99	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	34.91	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	61.61	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	38.90	1.25	2.50	5.00	
218-01-9	Chrysene	42.58	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	41.73	1.25	2.50	5.00	
132-64-9	Dibenzofuran	36.60	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	43.81	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	41.03	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	68.31	1.25	2.50	5.00	
84-66-2	Diethylphthalate	40.20	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	74.75	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	40.29	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	72.07	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	60.19	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	38.63	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	38.57	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	45.38	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G20119-MSD1 File ID: 0710213S.D

Sampled: Prepared: Analyzed: 07/30/12 18:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G20119 Sequence: 2G21305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	47.50	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	46.38	1.25	2.50	5.00	
206-44-0	Fluoranthene	40.61	1.25	2.50	5.00	
86-73-7	Fluorene	39.33	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	37.80	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	26.46	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	20.78	1.25	5.00	10.0	
67-72-1	Hexachloroethane	26.01	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	42.61	1.25	2.50	5.00	
78-59-1	Isophorone	32.52	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.26	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	33.70	1.25	2.50	5.00	
95-48-7	2-Methylphenol	54.93	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	47.94	1.25	2.50	5.00	
91-20-3	Naphthalene	35.99	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	43.28	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.33	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	49.93	5.00	10.0	20.0	
98-95-3	Nitrobenzene	34.95	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	20.95	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	71.53	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	35.62	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	40.39	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	73.48	5.00	10.0	20.0	
85-01-8	Phenanthrene	43.62	1.25	2.50	5.00	
108-95-2	Phenol	18.75	1.25	2.50	5.00	
129-00-0	Pyrene	43.52	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	69.04	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	75.65	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.05	82.1	50 - 110	
2-Fluorophenol	100.0	30.36	30.4	20 - 110	
Nitrobenzene-d5	50.00	37.02	74.0	40 - 110	
Phenol-d6	100.0	16.77	16.8	0 - 110	
Terphenyl-d14	50.00	43.98	88.0	50 - 135	
2,4,6-Tribromophenol	100.0	76.52	76.5	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23006-BLK1 File ID: G23006B1.D

Sampled: Prepared: Analyzed: 07/26/12 11:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G23006 Sequence: 2G20806 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	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_057

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

Matrix: Laboratory ID: 2G23006-BLK1 File ID: G23006B1.D

Sampled: Prepared: Analyzed: 07/26/12 11:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G23006 Sequence: 2G20806 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	43.69	87.4	50 - 110	
2-Fluorophenol	100.0	28.60	28.6	20 - 110	
Nitrobenzene-d5	50.00	40.31	80.6	40 - 110	
Phenol-d6	100.0	18.69	18.7	0 - 110	
Terphenyl-d14	50.00	52.75	106	50 - 135	
2,4,6-Tribromophenol	100.0	65.93	65.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23006-BS1 File ID: G23006L1.D

Sampled: Prepared: Analyzed: 07/26/12 12:12

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G23006 Sequence: 2G20806 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	38.29	1.25	2.50	5.00	
208-96-8	Acenaphthylene	41.75	1.25	2.50	5.00	
98-86-2	Acetophenone	43.24	1.25	2.50	5.00	
120-12-7	Anthracene	40.95	1.25	2.50	5.00	
1912-24-9	Atrazine	47.88	1.25	2.50	5.00	
100-52-7	Benzaldehyde	41.38	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	43.07	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	43.95	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	47.24	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	45.66	1.25	2.50	5.00	
65-85-0	Benzoic acid	19.50	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	44.92	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	49.88	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	39.38	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	52.95	1.25	2.50	5.00	
105-60-2	Caprolactam	7.903	1.25	2.50	5.00	
86-74-8	Carbazole	50.45	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	80.51	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	38.33	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	40.05	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	37.43	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	45.99	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	36.33	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	76.02	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	38.48	1.25	2.50	5.00	
218-01-9	Chrysene	43.96	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	44.57	1.25	2.50	5.00	
132-64-9	Dibenzofuran	38.03	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	47.72	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	46.09	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	83.23	1.25	2.50	5.00	
84-66-2	Diethylphthalate	44.58	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	83.69	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	42.58	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	83.67	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	76.04	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	42.86	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	40.69	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	48.27	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2G23006-BS1
File ID: G23006L1.D
Sampled:
Prepared:
Analyzed: 07/26/12 12:12
Solids:
Preparation: EXT_3510
Dilution:
Batch: 2G23006
Sequence: 2G20806
Calibration: 2156006
Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	47.22	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	51.09	1.25	2.50	5.00	
206-44-0	Fluoranthene	42.99	1.25	2.50	5.00	
86-73-7	Fluorene	43.09	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	38.42	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	27.33	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	17.39	1.25	5.00	10.0	
67-72-1	Hexachloroethane	25.63	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	45.82	1.25	2.50	5.00	
78-59-1	Isophorone	33.96	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	38.38	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	33.14	1.25	2.50	5.00	
95-48-7	2-Methylphenol	61.81	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	55.57	1.25	2.50	5.00	
91-20-3	Naphthalene	35.91	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	48.09	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	42.45	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	53.15	5.00	10.0	20.0	
98-95-3	Nitrobenzene	37.22	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	25.05	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	86.08	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	38.49	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.00	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	87.59	5.00	10.0	20.0	
85-01-8	Phenanthrene	41.87	1.25	2.50	5.00	
108-95-2	Phenol	23.76	1.25	2.50	5.00	
129-00-0	Pyrene	46.64	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	86.33	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	92.83	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.59	85.2	50 - 110	
2-Fluorophenol	100.0	40.43	40.4	20 - 110	
Nitrobenzene-d5	50.00	40.93	81.9	40 - 110	
Phenol-d6	100.0	22.02	22.0	0 - 110	
Terphenyl-d14	50.00	50.47	101	50 - 135	
2,4,6-Tribromophenol	100.0	92.81	92.8	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23006-BSD1 File ID: G23006L2.D

Sampled: Prepared: Analyzed: 07/26/12 12:40

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G23006 Sequence: 2G20806 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	37.06	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.67	1.25	2.50	5.00	
98-86-2	Acetophenone	45.65	1.25	2.50	5.00	
120-12-7	Anthracene	42.85	1.25	2.50	5.00	
1912-24-9	Atrazine	50.59	1.25	2.50	5.00	
100-52-7	Benzaldehyde	41.89	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	44.75	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	44.65	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	44.27	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	46.53	1.25	2.50	5.00	
65-85-0	Benzoic acid	20.80	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	48.30	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	50.92	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	37.64	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	53.47	1.25	2.50	5.00	
105-60-2	Caprolactam	7.962	1.25	2.50	5.00	
86-74-8	Carbazole	51.59	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	82.43	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	38.76	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	41.32	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	38.29	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	46.63	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	34.71	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	74.43	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	38.35	1.25	2.50	5.00	
218-01-9	Chrysene	45.29	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	46.50	1.25	2.50	5.00	
132-64-9	Dibenzofuran	37.03	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	48.26	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	47.85	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	82.96	1.25	2.50	5.00	
84-66-2	Diethylphthalate	45.37	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	84.22	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	44.49	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	81.94	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	70.19	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	42.07	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	41.77	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	50.38	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Matrix: Laboratory ID: 2G23006-BSD1 File ID: G23006L2.D

Sampled: Prepared: Analyzed: 07/26/12 12:40

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G23006 Sequence: 2G20806 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	47.87	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	52.46	1.25	2.50	5.00	
206-44-0	Fluoranthene	43.24	1.25	2.50	5.00	
86-73-7	Fluorene	40.31	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	38.10	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	23.76	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	16.98	1.25	5.00	10.0	
67-72-1	Hexachloroethane	23.54	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	46.61	1.25	2.50	5.00	
78-59-1	Isophorone	35.08	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.59	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	34.09	1.25	2.50	5.00	
95-48-7	2-Methylphenol	64.72	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	59.56	1.25	2.50	5.00	
91-20-3	Naphthalene	35.92	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	48.98	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	45.23	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	53.91	5.00	10.0	20.0	
98-95-3	Nitrobenzene	37.25	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	27.00	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	86.08	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	38.36	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	43.34	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	81.46	5.00	10.0	20.0	
85-01-8	Phenanthrene	43.08	1.25	2.50	5.00	
108-95-2	Phenol	24.92	1.25	2.50	5.00	
129-00-0	Pyrene	47.77	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	82.08	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	89.30	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.26	86.5	50 - 110	
2-Fluorophenol	100.0	40.27	40.3	20 - 110	
Nitrobenzene-d5	50.00	41.15	82.3	40 - 110	
Phenol-d6	100.0	23.04	23.0	0 - 110	
Terphenyl-d14	50.00	50.34	101	50 - 135	
2,4,6-Tribromophenol	100.0	87.62	87.6	40 - 125	

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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
GW0655	07/18/12 13:32	07/19/12 08:30	07/20/12 12:10	1.90	7.00	07/30/12 15:13	10.13	40.00	
GW0656	07/18/12 11:06	07/19/12 08:30	07/20/12 12:10	2.00	7.00	07/30/12 15:41	10.15	40.00	
GW0657	07/18/12 11:06	07/19/12 08:30	07/20/12 12:10	2.00	7.00	07/30/12 16:09	10.17	40.00	
GW0685	07/16/12 14:45	07/19/12 08:30	07/20/12 12:10	3.85	7.00	07/30/12 14:17	10.09	40.00	
GW0686	07/16/12 12:44	07/19/12 08:30	07/20/12 12:10	3.93	7.00	07/30/12 14:45	10.11	40.00	
GW0737	07/18/12 14:41	07/19/12 08:30	07/20/12 12:10	1.85	7.00	07/30/12 16:37	10.19	40.00	
GW0738	07/18/12 12:10	07/19/12 08:30	07/20/12 12:10	1.96	7.00	07/30/12 17:05	10.20	40.00	
GW0739	07/18/12 10:11	07/19/12 08:30	07/20/12 12:10	2.04	7.00	07/30/12 18:29	10.26	40.00	
GW0743	07/17/12 14:37	07/19/12 08:30	07/20/12 12:10	2.86	7.00	07/30/12 18:57	10.28	40.00	
GW0744	07/17/12 12:14	07/19/12 08:30	07/20/12 12:10	2.96	7.00	07/30/12 19:24	10.30	40.00	
GW0745	07/17/12 12:14	07/19/12 08:30	07/20/12 12:10	2.96	7.00	07/30/12 19:52	10.32	40.00	
GW0746	07/17/12 10:03	07/19/12 08:30	07/20/12 12:10	3.05	7.00	07/30/12 20:20	10.34	40.00	
GW0629	07/19/12 16:26	07/20/12 08:20	07/23/12 14:10	3.86	7.00	07/26/12 17:24	3.13	40.00	
GW0643	07/19/12 14:45	07/20/12 08:20	07/23/12 14:10	3.93	7.00	07/26/12 17:53	3.15	40.00	
GW0653	07/19/12 16:00	07/20/12 08:20	07/23/12 14:10	3.88	7.00	07/26/12 18:21	3.17	40.00	
GW0654	07/18/12 15:33	07/20/12 08:20	07/23/12 14:10	4.90	7.00	07/26/12 18:50	3.19	40.00	
GW0730	07/19/12 11:37	07/20/12 08:20	07/23/12 14:10	4.06	7.00	07/26/12 19:18	3.21	40.00	
GW0732	07/19/12 10:54	07/20/12 08:20	07/23/12 14:10	4.09	7.00	07/26/12 19:46	3.23	40.00	

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20112	Instrument:	GL-GCFID2
Calibration:	2200003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20112-CCV1	003F0301.D	07/19/12 11:58
Blank	2G19915-BLK1	005F0501.D	07/19/12 13:06
LCS	2G19915-BS1	006F0601.D	07/19/12 13:40
Calibration Check	2G20112-CCV2	007F0701.D	07/19/12 14:15

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21404	Instrument:	GL-GCFID2
Calibration:	2214001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21404-CAL6	002F0201.D	07/31/12 16:00
Cal Standard	2H21404-CAL5	003F0301.D	07/31/12 16:34
Cal Standard	2H21404-CAL4	004F0401.D	07/31/12 17:08
Cal Standard	2H21404-CAL3	005F0501.D	07/31/12 17:42
Cal Standard	2H21404-CAL2	006F0601.D	07/31/12 18:15
Cal Standard	2H21404-CAL1	007F0701.D	07/31/12 18:48
Initial Cal Check	2H21404-ICV1	008F0801.D	07/31/12 19:22

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21607	Instrument:	GL-GCFID2
Calibration:	2214001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H21607-CCV1	009F0901.D	07/31/12 19:55
GW0655	1207102-01	010F1001.D	07/31/12 20:28
GW0656	1207102-03	011F1101.D	07/31/12 21:02
GW0657	1207102-05	012F1201.D	07/31/12 21:35
GW0685	1207102-07	013F1301.D	07/31/12 22:08
GW0686	1207102-09	014F1401.D	07/31/12 22:41
GW0737	1207102-11	015F1501.D	07/31/12 23:14
GW0738	1207102-13	016F1601.D	07/31/12 23:48
GW0738	2G19915-MS2	017F1701.D	08/01/12 00:21
GW0738	2G19915-MSD2	018F1801.D	08/01/12 00:55
GW0739	1207102-15	019F1901.D	08/01/12 01:28
GW0743	1207102-17	020F2001.D	08/01/12 02:02
GW0744	1207102-19	021F2101.D	08/01/12 02:35
Calibration Check	2H21607-CCV2	022F2201.D	08/01/12 03:08
GW0745	1207102-21	023F2301.D	08/01/12 03:42
GW0746	1207102-23	024F2401.D	08/01/12 04:15
Blank	2G25004-BLK1	031F3101.D	08/01/12 08:07
LCS	2G25004-BS1	032F3201.D	08/01/12 08:41
GW0629	1207107-01	033F3301.D	08/01/12 09:14
GW0643	1207107-03	034F3401.D	08/01/12 09:47
GW0653	1207107-05	035F3501.D	08/01/12 10:21
GW0654	1207107-07	036F3601.D	08/01/12 10:55
GW0730	1207107-09	037F3701.D	08/01/12 11:28
GW0732	1207107-11	038F3801.D	08/01/12 12:02
Calibration Check	2H21607-CCV3	040F4001.D	08/01/12 13:10

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	010F1001.D
Sampled:	07/18/12 13:32	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 20:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02492	127	30 - 140	

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	011F1101.D
Sampled:	07/18/12 11:06	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 21:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 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	0.02603	130	30 - 140	

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	012F1201.D
Sampled:	07/18/12 11:06	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 21:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02415	123	30 - 140	

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	013F1301.D
Sampled:	07/16/12 14:45	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 22:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 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	0.02433	122	30 - 140	

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	014F1401.D
Sampled:	07/16/12 12:44	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 22:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0990	0.198	0.396	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01980	0.02484	125	30 - 140	

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	015F1501.D
Sampled:	07/18/12 14:41	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 23:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01876	95.7	30 - 140	

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	016F1601.D
Sampled:	07/18/12 12:10	Prepared:	07/20/12 08:51	Analyzed:	07/31/12 23:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.0985	0.0980	0.196	0.392	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02140	109	30 - 140	

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	019F1901.D
Sampled:	07/18/12 10:11	Prepared:	07/20/12 08:51	Analyzed:	08/01/12 01:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02111	108	30 - 140	

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	020F2001.D
Sampled:	07/17/12 14:37	Prepared:	07/20/12 08:51	Analyzed:	08/01/12 02:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01972	101	30 - 140	

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	021F2101.D
Sampled:	07/17/12 12:14	Prepared:	07/20/12 08:51	Analyzed:	08/01/12 02:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 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	0.01889	94.4	30 - 140	

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	023F2301.D
Sampled:	07/17/12 12:14	Prepared:	07/20/12 08:51	Analyzed:	08/01/12 03:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02422	124	30 - 140	X

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	024F2401.D
Sampled:	07/17/12 10:03	Prepared:	07/20/12 08:51	Analyzed:	08/01/12 04:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.192	0.385	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.02095	109	30 - 140	X

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	033F3301.D
Sampled:	07/19/12 16:26	Prepared:	07/25/12 14:16	Analyzed:	08/01/12 09:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01802	91.9	30 - 140	X

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	034F3401.D
Sampled:	07/19/12 14:45	Prepared:	07/25/12 14:16	Analyzed:	08/01/12 09:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02105	105	30 - 140	X

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	035F3501.D
Sampled:	07/19/12 16:00	Prepared:	07/25/12 14:16	Analyzed:	08/01/12 10:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.192	0.385	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.02014	105	30 - 140	X

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	036F3601.D
Sampled:	07/18/12 15:33	Prepared:	07/25/12 14:16	Analyzed:	08/01/12 10:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02270	116	30 - 140	X

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	037F3701.D
Sampled:	07/19/12 11:37	Prepared:	07/25/12 14:16	Analyzed:	08/01/12 11:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0935	0.187	0.374	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.02015	108	30 - 140	X

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	038F3801.D
Sampled:	07/19/12 10:54	Prepared:	07/25/12 14:16	Analyzed:	08/01/12 12:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01905	95.2	30 - 140	X

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G19915	Laboratory ID:	2G19915-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.9977	99.8	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G25004	Laboratory ID:	2G25004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.8913	89.1	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G19915

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9804	0.09846	1.170	109		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)	0.9804	1.081	100	7.97		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G19915 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/20/12 08:51	1,020.00	1.00
GW0656	1207102-03	07/20/12 08:51	1,000.00	1.00
GW0657	1207102-05	07/20/12 08:51	1,020.00	1.00
GW0685	1207102-07	07/20/12 08:51	1,000.00	1.00
GW0686	1207102-09	07/20/12 08:51	1,010.00	1.00
GW0737	1207102-11	07/20/12 08:51	1,020.00	1.00
GW0738	1207102-13	07/20/12 08:51	1,020.00	1.00
GW0739	1207102-15	07/20/12 08:51	1,020.00	1.00
GW0743	1207102-17	07/20/12 08:51	1,020.00	1.00
GW0744	1207102-19	07/20/12 08:51	1,000.00	1.00
GW0745	1207102-21	07/20/12 08:51	1,020.00	1.00
GW0746	1207102-23	07/20/12 08:51	1,040.00	1.00
Blank	2G19915-BLK1	07/19/12 08:54	1,000.00	1.00
LCS	2G19915-BS1	07/19/12 08:54	1,000.00	1.00
GW0738	2G19915-MS2	07/20/12 08:51	1,020.00	1.00
GW0738	2G19915-MSD2	07/20/12 08:51	1,020.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G25004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0629	1207107-01	07/25/12 14:16	1,020.00	1.00
GW0643	1207107-03	07/25/12 14:16	1,000.00	1.00
GW0653	1207107-05	07/25/12 14:16	1,040.00	1.00
GW0654	1207107-07	07/25/12 14:16	1,020.00	1.00
GW0730	1207107-09	07/25/12 14:16	1,070.00	1.00
GW0732	1207107-11	07/25/12 14:16	1,000.00	1.00
Blank	2G25004-BLK1	07/25/12 14:16	1,000.00	1.00
LCS	2G25004-BS1	07/25/12 14:16	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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 STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21404	Instrument:	GL-GCFID2
Calibration:	2214001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12F0241	DRO ICAL6@100ppm	2H21404-CAL6	002F0201.D	07/31/12 16:00
12F0242	DRO ICAL5@250ppm	2H21404-CAL5	003F0301.D	07/31/12 16:34
12F0243	DRO ICAL4@500ppm	2H21404-CAL4	004F0401.D	07/31/12 17:08
12F0211	DRO ICAL3@1000ppm	2H21404-CAL3	005F0501.D	07/31/12 17:42
12F0244	DRO ICAL2@2500ppm	2H21404-CAL2	006F0601.D	07/31/12 18:15
12F0245	DRO ICAL1@5000ppm	2H21404-CAL1	007F0701.D	07/31/12 18:48

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057	
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_057	
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 DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2214001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	7/31/12 16:00	7/31/12 18:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	764.1	250	904.512	500	926.532	1000	1062.126	2500	1084.265	5000	1373.83
o-Terphenyl	5	1319.2	12.5	1379.6	25	1341.32	50	1377.1	125	1331.232	250	1397.108

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2214001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	7/31/12 16:00	7/31/12 18:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1019.228	20.51747	5.947	0.0133767		0.9997707	0.99	
o-Terphenyl	1357.593	2.296485	11.13583	9.623485E-02			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	008F0801.D	Calibration Date:	07/31/12 11:55
Sequence:	2H21404	Injection Date:	07/31/12
Lab Sample ID:	2H21404-ICV1	Injection Time:	19:22

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1058	1019.228	1065.399		5.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G20112	Injection Date:	07/19/12
Lab Sample ID:	2G20112-CCV1	Injection Time:	11:58

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1181	1123.691	1326.697		18.1	20
o-Terphenyl	A	50.00	58.80	1378.537	1621.16		17.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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:	2G20112	Injection Date:	07/19/12
Lab Sample ID:	2G20112-CCV2	Injection Time:	14:15

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1136	1123.691	1276.195		13.6	20
o-Terphenyl	A	50.00	57.97	1378.537	1598.36		15.9	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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	009F0901.D	Calibration Date:	07/31/12 11:55
Sequence:	2H21607	Injection Date:	07/31/12
Lab Sample ID:	2H21607-CCV1	Injection Time:	19:55

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1192	1019.228	1209.876		19.2	20
o-Terphenyl	A	50.00	58.54	1357.593	1589.56		17.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	022F2201.D	Calibration Date:	07/31/12 11:55
Sequence:	2H21607	Injection Date:	08/01/12
Lab Sample ID:	2H21607-CCV2	Injection Time:	03:08

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1018	1019.228	1022.576		1.8	20
o-Terphenyl	A	50.00	48.84	1357.593	1326.14		-2.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	040F4001.D	Calibration Date:	07/31/12 11:55
Sequence:	2H21607	Injection Date:	08/01/12
Lab Sample ID:	2H21607-CCV3	Injection Time:	13:10

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1352	1019.228	1384.467		35.2	20 *
o-Terphenyl	A	50.00	62.07	1357.593	1685.32		24.1	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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20112	Instrument:	GL-GCFID2
		Calibration:	2200003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20112-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 07/19/12 11:58		
o-Terphenyl	50.00	118	80 - 120	11.196	11.196	0.0000	+/-0.050	
Blank (2G19915-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 07/19/12 13:06		
o-Terphenyl	0.02000	108	30 - 140	11.213	11.196	0.0170	+/-0.050	
LCS (2G19915-BS1) mg/L				Lab File ID: 006F0601.D		Analyzed: 07/19/12 13:40		
o-Terphenyl	0.02000	134	30 - 140	11.203	11.196	0.0070	+/-0.050	
Calibration Check (2G20112-CCV2) mg/L				Lab File ID: 007F0701.D		Analyzed: 07/19/12 14:15		
o-Terphenyl	50.00	116	80 - 120	11.213	11.196	0.0170	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21607	Instrument:	GL-GCFID2
		Calibration:	2214001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H21607-CCV1) mg/L				Lab File ID: 009F0901.D		Analyzed: 07/31/12 19:55		
o-Terphenyl	50.00	117	80 - 120	11.133	11.133	0.0000	+/-0.050	
GW0655 (1207102-01) mg/L				Lab File ID: 010F1001.D		Analyzed: 07/31/12 20:28		
o-Terphenyl	0.01961	127	30 - 140	11.1	11.133	-0.0330	+/-0.050	
GW0656 (1207102-03) mg/L				Lab File ID: 011F1101.D		Analyzed: 07/31/12 21:02		
o-Terphenyl	0.02000	130	30 - 140	11.133	11.133	0.0000	+/-0.050	
GW0657 (1207102-05) mg/L				Lab File ID: 012F1201.D		Analyzed: 07/31/12 21:35		
o-Terphenyl	0.01961	123	30 - 140	11.106	11.133	-0.0270	+/-0.050	
GW0685 (1207102-07) mg/L				Lab File ID: 013F1301.D		Analyzed: 07/31/12 22:08		
o-Terphenyl	0.02000	122	30 - 140	11.123	11.133	-0.0100	+/-0.050	
GW0686 (1207102-09) mg/L				Lab File ID: 014F1401.D		Analyzed: 07/31/12 22:41		
o-Terphenyl	0.01980	125	30 - 140	11.113	11.133	-0.0200	+/-0.050	
GW0737 (1207102-11) mg/L				Lab File ID: 015F1501.D		Analyzed: 07/31/12 23:14		
o-Terphenyl	0.01961	95.7	30 - 140	11.1	11.133	-0.0330	+/-0.050	
GW0738 (1207102-13) mg/L				Lab File ID: 016F1601.D		Analyzed: 07/31/12 23:48		
o-Terphenyl	0.01961	109	30 - 140	11.093	11.133	-0.0400	+/-0.050	
Matrix Spike (2G19915-MS2) mg/L				Lab File ID: 017F1701.D		Analyzed: 08/01/12 00:21		
o-Terphenyl	0.01961	129	30 - 140	11.086	11.133	-0.0470	+/-0.050	
Matrix Spike Dup (2G19915-MSD2) mg/L				Lab File ID: 018F1801.D		Analyzed: 08/01/12 00:55		
o-Terphenyl	0.01961	119	30 - 140	11.093	11.133	-0.0400	+/-0.050	
GW0739 (1207102-15) mg/L				Lab File ID: 019F1901.D		Analyzed: 08/01/12 01:28		
o-Terphenyl	0.01961	108	30 - 140	11.113	11.133	-0.0200	+/-0.050	
GW0743 (1207102-17) mg/L				Lab File ID: 020F2001.D		Analyzed: 08/01/12 02:02		
o-Terphenyl	0.01961	101	30 - 140	11.09	11.133	-0.0430	+/-0.050	
GW0744 (1207102-19) mg/L				Lab File ID: 021F2101.D		Analyzed: 08/01/12 02:35		
o-Terphenyl	0.02000	94.4	30 - 140	11.09	11.133	-0.0430	+/-0.050	
Calibration Check (2H21607-CCV2) mg/L				Lab File ID: 022F2201.D		Analyzed: 08/01/12 03:08		
o-Terphenyl	50.00	97.7	80 - 120	11.076	11.133	-0.0570	+/-0.050	*
GW0745 (1207102-21) mg/L				Lab File ID: 023F2301.D		Analyzed: 08/01/12 03:42		
o-Terphenyl	0.01961	124	30 - 140	11.08	11.133	-0.0530	+/-0.050	*
GW0746 (1207102-23) mg/L				Lab File ID: 024F2401.D		Analyzed: 08/01/12 04:15		
o-Terphenyl	0.01923	109	30 - 140	11.093	11.133	-0.0400	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21607	Instrument:	GL-GCFID2
		Calibration:	2214001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Blank (2G25004-BLK1) mg/L				Lab File ID: 031F3101.D		Analyzed: 08/01/12 08:07		
o-Terphenyl	0.02000	100	30 - 140	11.153	11.133	0.0200	+/-0.050	
LCS (2G25004-BS1) mg/L				Lab File ID: 032F3201.D		Analyzed: 08/01/12 08:41		
o-Terphenyl	0.02000	103	30 - 140	11.136	11.133	0.0030	+/-0.050	
GW0629 (1207107-01) mg/L				Lab File ID: 033F3301.D		Analyzed: 08/01/12 09:14		
o-Terphenyl	0.01961	91.9	30 - 140	11.163	11.133	0.0300	+/-0.050	
GW0643 (1207107-03) mg/L				Lab File ID: 034F3401.D		Analyzed: 08/01/12 09:47		
o-Terphenyl	0.02000	105	30 - 140	11.143	11.133	0.0100	+/-0.050	
GW0653 (1207107-05) mg/L				Lab File ID: 035F3501.D		Analyzed: 08/01/12 10:21		
o-Terphenyl	0.01923	105	30 - 140	11.176	11.133	0.0430	+/-0.050	
GW0654 (1207107-07) mg/L				Lab File ID: 036F3601.D		Analyzed: 08/01/12 10:55		
o-Terphenyl	0.01961	116	30 - 140	11.156	11.133	0.0230	+/-0.050	
GW0730 (1207107-09) mg/L				Lab File ID: 037F3701.D		Analyzed: 08/01/12 11:28		
o-Terphenyl	0.01869	108	30 - 140	11.166	11.133	0.0330	+/-0.050	
GW0732 (1207107-11) mg/L				Lab File ID: 038F3801.D		Analyzed: 08/01/12 12:02		
o-Terphenyl	0.02000	95.2	30 - 140	11.166	11.133	0.0330	+/-0.050	
Calibration Check (2H21607-CCV3) mg/L				Lab File ID: 040F4001.D		Analyzed: 08/01/12 13:10		
o-Terphenyl	50.00	124	80 - 120	11.183	11.133	0.0500	+/-0.050	*

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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
GW0655	07/18/12 13:32	07/19/12 08:30	07/20/12 08:51	1.76	7.00	07/31/12 20:28	11.48	40.00	
GW0656	07/18/12 11:06	07/19/12 08:30	07/20/12 08:51	1.86	7.00	07/31/12 21:02	11.51	40.00	
GW0657	07/18/12 11:06	07/19/12 08:30	07/20/12 08:51	1.86	7.00	07/31/12 21:35	11.53	40.00	
GW0685	07/16/12 14:45	07/19/12 08:30	07/20/12 08:51	3.71	7.00	07/31/12 22:08	11.55	40.00	
GW0686	07/16/12 12:44	07/19/12 08:30	07/20/12 08:51	3.80	7.00	07/31/12 22:41	11.58	40.00	
GW0737	07/18/12 14:41	07/19/12 08:30	07/20/12 08:51	1.72	7.00	07/31/12 23:14	11.60	40.00	
GW0738	07/18/12 12:10	07/19/12 08:30	07/20/12 08:51	1.82	7.00	07/31/12 23:48	11.62	40.00	
GW0739	07/18/12 10:11	07/19/12 08:30	07/20/12 08:51	1.90	7.00	08/01/12 01:28	11.69	40.00	
GW0743	07/17/12 14:37	07/19/12 08:30	07/20/12 08:51	2.72	7.00	08/01/12 02:02	11.72	40.00	
GW0744	07/17/12 12:14	07/19/12 08:30	07/20/12 08:51	2.82	7.00	08/01/12 02:35	11.74	40.00	
GW0745	07/17/12 12:14	07/19/12 08:30	07/20/12 08:51	2.82	7.00	08/01/12 03:42	11.79	40.00	
GW0746	07/17/12 10:03	07/19/12 08:30	07/20/12 08:51	2.91	7.00	08/01/12 04:15	11.81	40.00	
GW0629	07/19/12 16:26	07/20/12 08:20	07/25/12 14:16	5.87	7.00	08/01/12 09:14	6.79	40.00	
GW0643	07/19/12 14:45	07/20/12 08:20	07/25/12 14:16	5.94	7.00	08/01/12 09:47	6.81	40.00	
GW0653	07/19/12 16:00	07/20/12 08:20	07/25/12 14:16	5.89	7.00	08/01/12 10:21	6.84	40.00	
GW0654	07/18/12 15:33	07/20/12 08:20	07/25/12 14:16	6.90	7.00	08/01/12 10:55	6.86	40.00	
GW0730	07/19/12 11:37	07/20/12 08:20	07/25/12 14:16	6.07	7.00	08/01/12 11:28	6.88	40.00	
GW0732	07/19/12 10:54	07/20/12 08:20	07/25/12 14:16	6.10	7.00	08/01/12 12:02	6.91	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19915-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	07/19/12 13:06
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G19915	Sequence:	2G20112	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	0.02166	108	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G19915-BS1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	07/19/12 13:40
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G19915	Sequence:	2G20112	Calibration:	2200003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.9977	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02675	134	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_057	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G19915-MS2	File ID:	017F1701.D
Sampled:		Prepared:		Analyzed:	08/01/12 00:21
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.170	0.0980	0.196	0.392	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02530	129	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_057	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G19915-MSD2	File ID:	018F1801.D
Sampled:		Prepared:		Analyzed:	08/01/12 00:55
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2G19915 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.081	0.0980	0.196	0.392	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02341	119	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G25004-BLK1	File ID:	031F3101.D
Sampled:		Prepared:		Analyzed:	08/01/12 08:07
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2G25004	Sequence:	2H21607	Calibration:	2214001	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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02003	100	30 - 140	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_057	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G25004-BS1	File ID:	032F3201.D
Sampled:		Prepared:		Analyzed:	08/01/12 08:41
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2G25004 Sequence: 2H21607 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8913	0.100	0.200	0.400	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02057	103	30 - 140	X

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20805	Instrument:	GL-GCVOA2
Calibration:	2206001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20805-CCV1	003F0301.D	07/24/12 16:22
LCS	2G24021-BS1	004F0401.D	07/24/12 17:03
Blank	2G24021-BLK1	005F0501.D	07/24/12 17:44
Calibration Check	2G20805-CCV2	018F1801.D	07/25/12 02:30
GW0655	1207102-01	022F2201.D	07/25/12 05:13
GW0656	1207102-03	023F2301.D	07/25/12 05:51
GW0657	1207102-05	024F2401.D	07/25/12 06:30
GW0685	1207102-07	025F2501.D	07/25/12 07:10
GW0686	1207102-09	026F2601.D	07/25/12 07:50
GW0737	1207102-11	027F2701.D	07/25/12 08:30
GW0738	1207102-13	028F2801.D	07/25/12 09:10
GW0738	2G24021-MS2	029F2901.D	07/25/12 09:49
GW0738	2G24021-MSD2	030F3001.D	07/25/12 10:29
Calibration Check	2G20805-CCV3	031F3101.D	07/25/12 11:10

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20914	Instrument:	GL-GCVOA2
Calibration:	2206001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20914-CCV1	003F0301.D	07/26/12 16:05
LCS	2G26008-BS1	004F0401.D	07/26/12 16:46
Blank	2G26008-BLK1	005F0501.D	07/26/12 17:26
GW0739	1207102-15	006F0601.D	07/26/12 18:06
GW0743	1207102-17	007F0701.D	07/26/12 18:46
GW0744	1207102-19	008F0801.D	07/26/12 19:25
GW0745	1207102-21	009F0901.D	07/26/12 20:04
GW0746	1207102-23	010F1001.D	07/26/12 20:42
GW0629	1207107-01	011F1101.D	07/26/12 21:21
GW0643	1207107-03	012F1201.D	07/26/12 21:59
GW0653	1207107-05	013F1301.D	07/26/12 22:38
GW0654	1207107-07	014F1401.D	07/26/12 23:18
GW0730	1207107-09	015F1501.D	07/26/12 23:57
Calibration Check	2G20914-CCV2	016F1601.D	07/27/12 00:37
GW0732	1207107-11	017F1701.D	07/27/12 01:16
Calibration Check	2G20914-CCV3	028F2801.D	07/27/12 08:19

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	022F2201.D
Sampled:	07/18/12 13:32	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 05:13
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06117	122	50 - 150	

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	023F2301.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 05:51
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05984	120	50 - 150	

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	024F2401.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 06:30
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05600	112	50 - 150	

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	025F2501.D
Sampled:	07/16/12 14:45	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 07:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05825	116	50 - 150	

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	026F2601.D
Sampled:	07/16/12 12:44	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 07:50
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06223	124	50 - 150	

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	027F2701.D
Sampled:	07/18/12 14:41	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 08:30
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06557	131	50 - 150	

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	028F2801.D
Sampled:	07/18/12 12:10	Prepared:	07/23/12 11:00	Analyzed:	07/25/12 09:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G24021 Sequence: 2G20805 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06036	121	50 - 150	

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	006F0601.D
Sampled:	07/18/12 10:11	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 18:06
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07520	150	50 - 150	X

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	007F0701.D
Sampled:	07/17/12 14:37	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 18:46
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07891	158	50 - 150	*X

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	008F0801.D
Sampled:	07/17/12 12:14	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 19:25
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07571	151	50 - 150	*X

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	009F0901.D
Sampled:	07/17/12 12:14	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 20:04
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07199	144	50 - 150	X

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	010F1001.D
Sampled:	07/17/12 10:03	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 20:42
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07189	144	50 - 150	X

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	011F1101.D
Sampled:	07/19/12 16:26	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 21:21
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07128	143	50 - 150	X

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	012F1201.D
Sampled:	07/19/12 14:45	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 21:59
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06580	132	50 - 150	X

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	013F1301.D
Sampled:	07/19/12 16:00	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 22:38
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06742	135	50 - 150	X

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	014F1401.D
Sampled:	07/18/12 15:33	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 23:18
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07068	141	50 - 150	X

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	015F1501.D
Sampled:	07/19/12 11:37	Prepared:	07/26/12 10:28	Analyzed:	07/26/12 23:57
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07548	151	50 - 150	*X

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	017F1701.D
Sampled:	07/19/12 10:54	Prepared:	07/26/12 10:28	Analyzed:	07/27/12 01:16
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07285	146	50 - 150	X

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G24021	Laboratory ID:	2G24021-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	0.4621	92.4	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G26008	Laboratory ID:	2G26008-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	0.3961	79.2	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G24021

% Solids:

Source Sample Name: **1207102-13**

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	0.2820	56.4		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	0.3582	71.6	23.8		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G24021 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/23/12 11:00	5.00	5.00
GW0656	1207102-03	07/23/12 11:00	5.00	5.00
GW0657	1207102-05	07/23/12 11:00	5.00	5.00
GW0685	1207102-07	07/23/12 11:00	5.00	5.00
GW0686	1207102-09	07/23/12 11:00	5.00	5.00
GW0737	1207102-11	07/23/12 11:00	5.00	5.00
GW0738	1207102-13	07/23/12 11:00	5.00	5.00
Blank	2G24021-BLK1	07/24/12 14:03	5.00	5.00
LCS	2G24021-BS1	07/24/12 14:03	5.00	5.00
GW0738	2G24021-MS2	07/24/12 14:03	5.00	5.00
GW0738	2G24021-MSD2	07/24/12 14:03	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G26008 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0739	1207102-15	07/26/12 10:28	5.00	5.00
GW0743	1207102-17	07/26/12 10:28	5.00	5.00
GW0744	1207102-19	07/26/12 10:28	5.00	5.00
GW0745	1207102-21	07/26/12 10:28	5.00	5.00
GW0746	1207102-23	07/26/12 10:28	5.00	5.00
GW0629	1207107-01	07/26/12 10:28	5.00	5.00
GW0643	1207107-03	07/26/12 10:28	5.00	5.00
GW0653	1207107-05	07/26/12 10:28	5.00	5.00
GW0654	1207107-07	07/26/12 10:28	5.00	5.00
GW0730	1207107-09	07/26/12 10:28	5.00	5.00
GW0732	1207107-11	07/26/12 10:28	5.00	5.00
Blank	2G26008-BLK1	07/26/12 10:28	5.00	5.00
LCS	2G26008-BS1	07/26/12 10:28	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
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_057	
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_057	
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_057
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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	003F0301.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20805	Injection Date:	07/24/12
Lab Sample ID:	2G20805-CCV1	Injection Time:	16:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4760	1308562	1115994		-4.8	20
Bromofluorobenzene	L	0.05000	0.05741	475417	488080		14.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	018F1801.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20805	Injection Date:	07/25/12
Lab Sample ID:	2G20805-CCV2	Injection Time:	02:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4259	1308562	1026508		-14.8	20
Bromofluorobenzene	L	0.05000	0.05108	475417	439460		2.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	031F3101.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20805	Injection Date:	07/25/12
Lab Sample ID:	2G20805-CCV3	Injection Time:	11:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4572	1308562	1082342		-8.6	20
Bromofluorobenzene	L	0.05000	0.04647	475417	404060		-7.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	003F0301.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20914	Injection Date:	07/26/12
Lab Sample ID:	2G20914-CCV1	Injection Time:	16:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4641	1308562	1094630		-7.2	20
Bromofluorobenzene	L	0.05000	0.06039	475417	511020		20.8	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	016F1601.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20914	Injection Date:	07/27/12
Lab Sample ID:	2G20914-CCV2	Injection Time:	00:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4115	1308562	1000768		-17.7	20
Bromofluorobenzene	L	0.05000	0.06252	475417	527400		25.0	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2206001
Lab File ID:	028F2801.D	Calibration Date:	07/19/12 16:07
Sequence:	2G20914	Injection Date:	07/27/12
Lab Sample ID:	2G20914-CCV3	Injection Time:	08:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4482	1308562	1066200		-10.4	20
Bromofluorobenzene	L	0.05000	0.05854	475417	496780		17.1	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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20805	Instrument:	GL-GCVOA2
		Calibration:	2206001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20805-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 07/24/12 16:22		
Bromofluorobenzene	0.05000	115	80 - 120	20.296	20.296	0.0000	+/-0.210	
LCS (2G24021-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 07/24/12 17:03		
Bromofluorobenzene	0.05000	116	50 - 150	20.296	20.296	0.0000	+/-0.210	
Blank (2G24021-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 07/24/12 17:44		
Bromofluorobenzene	0.05000	119	50 - 150	20.296	20.296	0.0000	+/-0.210	
Calibration Check (2G20805-CCV2) ug/mL				Lab File ID: 018F1801.D		Analyzed: 07/25/12 02:30		
Bromofluorobenzene	0.05000	102	80 - 120	20.303	20.296	0.0070	+/-0.210	
GW0655 (1207102-01) mg/L				Lab File ID: 022F2201.D		Analyzed: 07/25/12 05:13		
Bromofluorobenzene	0.05000	122	50 - 150	20.316	20.296	0.0200	+/-0.210	
GW0656 (1207102-03) mg/L				Lab File ID: 023F2301.D		Analyzed: 07/25/12 05:51		
Bromofluorobenzene	0.05000	120	50 - 150	20.32	20.296	0.0240	+/-0.210	
GW0657 (1207102-05) mg/L				Lab File ID: 024F2401.D		Analyzed: 07/25/12 06:30		
Bromofluorobenzene	0.05000	112	50 - 150	20.32	20.296	0.0240	+/-0.210	
GW0685 (1207102-07) mg/L				Lab File ID: 025F2501.D		Analyzed: 07/25/12 07:10		
Bromofluorobenzene	0.05000	116	50 - 150	20.316	20.296	0.0200	+/-0.210	
GW0686 (1207102-09) mg/L				Lab File ID: 026F2601.D		Analyzed: 07/25/12 07:50		
Bromofluorobenzene	0.05000	124	50 - 150	20.31	20.296	0.0140	+/-0.210	
GW0737 (1207102-11) mg/L				Lab File ID: 027F2701.D		Analyzed: 07/25/12 08:30		
Bromofluorobenzene	0.05000	131	50 - 150	20.313	20.296	0.0170	+/-0.210	
GW0738 (1207102-13) mg/L				Lab File ID: 028F2801.D		Analyzed: 07/25/12 09:10		
Bromofluorobenzene	0.05000	121	50 - 150	20.316	20.296	0.0200	+/-0.210	
Matrix Spike (2G24021-MS2) mg/L				Lab File ID: 029F2901.D		Analyzed: 07/25/12 09:49		
Bromofluorobenzene	0.05000	124	50 - 150	20.316	20.296	0.0200	+/-0.210	
Matrix Spike Dup (2G24021-MSD2) mg/L				Lab File ID: 030F3001.D		Analyzed: 07/25/12 10:29		
Bromofluorobenzene	0.05000	41.1	50 - 150	20.32	20.296	0.0240	+/-0.210	*
Calibration Check (2G20805-CCV3) ug/mL				Lab File ID: 031F3101.D		Analyzed: 07/25/12 11:10		
Bromofluorobenzene	0.05000	92.9	80 - 120	20.313	20.296	0.0170	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20914	Instrument:	GL-GCVOA2
		Calibration:	2206001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20914-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 07/26/12 16:05		
Bromofluorobenzene	0.05000	121	80 - 120	20.3	20.3	0.0000	+/-0.210	*
LCS (2G26008-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 07/26/12 16:46		
Bromofluorobenzene	0.05000	125	50 - 150	20.303	20.3	0.0030	+/-0.210	
Blank (2G26008-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 07/26/12 17:26		
Bromofluorobenzene	0.05000	156	50 - 150	20.306	20.3	0.0060	+/-0.210	*
GW0739 (1207102-15) mg/L				Lab File ID: 006F0601.D		Analyzed: 07/26/12 18:06		
Bromofluorobenzene	0.05000	150	50 - 150	20.306	20.3	0.0060	+/-0.210	
GW0743 (1207102-17) mg/L				Lab File ID: 007F0701.D		Analyzed: 07/26/12 18:46		
Bromofluorobenzene	0.05000	158	50 - 150	20.31	20.3	0.0100	+/-0.210	*
GW0744 (1207102-19) mg/L				Lab File ID: 008F0801.D		Analyzed: 07/26/12 19:25		
Bromofluorobenzene	0.05000	151	50 - 150	20.313	20.3	0.0130	+/-0.210	*
GW0745 (1207102-21) mg/L				Lab File ID: 009F0901.D		Analyzed: 07/26/12 20:04		
Bromofluorobenzene	0.05000	144	50 - 150	20.32	20.3	0.0200	+/-0.210	
GW0746 (1207102-23) mg/L				Lab File ID: 010F1001.D		Analyzed: 07/26/12 20:42		
Bromofluorobenzene	0.05000	144	50 - 150	20.323	20.3	0.0230	+/-0.210	
GW0629 (1207107-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 07/26/12 21:21		
Bromofluorobenzene	0.05000	143	50 - 150	20.326	20.3	0.0260	+/-0.210	
GW0643 (1207107-03) mg/L				Lab File ID: 012F1201.D		Analyzed: 07/26/12 21:59		
Bromofluorobenzene	0.05000	132	50 - 150	20.33	20.3	0.0300	+/-0.210	
GW0653 (1207107-05) mg/L				Lab File ID: 013F1301.D		Analyzed: 07/26/12 22:38		
Bromofluorobenzene	0.05000	135	50 - 150	20.323	20.3	0.0230	+/-0.210	
GW0654 (1207107-07) mg/L				Lab File ID: 014F1401.D		Analyzed: 07/26/12 23:18		
Bromofluorobenzene	0.05000	141	50 - 150	20.32	20.3	0.0200	+/-0.210	
GW0730 (1207107-09) mg/L				Lab File ID: 015F1501.D		Analyzed: 07/26/12 23:57		
Bromofluorobenzene	0.05000	151	50 - 150	20.316	20.3	0.0160	+/-0.210	*
Calibration Check (2G20914-CCV2) ug/mL				Lab File ID: 016F1601.D		Analyzed: 07/27/12 00:37		
Bromofluorobenzene	0.05000	125	80 - 120	20.316	20.3	0.0160	+/-0.210	*
GW0732 (1207107-11) mg/L				Lab File ID: 017F1701.D		Analyzed: 07/27/12 01:16		
Bromofluorobenzene	0.05000	146	50 - 150	20.316	20.3	0.0160	+/-0.210	
Calibration Check (2G20914-CCV3) ug/mL				Lab File ID: 028F2801.D		Analyzed: 07/27/12 08:19		
Bromofluorobenzene	0.05000	117	80 - 120	20.323	20.3	0.0230	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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
GW0655	07/18/12 13:32	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 05:13	6.61	14.00	
GW0656	07/18/12 11:06	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 05:51	6.74	14.00	
GW0657	07/18/12 11:06	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 06:30	6.77	14.00	
GW0685	07/16/12 14:45	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 07:10	8.64	14.00	
GW0686	07/16/12 12:44	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 07:50	8.75	14.00	
GW0737	07/18/12 14:41	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 08:30	6.70	14.00	
GW0738	07/18/12 12:10	07/19/12 08:30	07/23/12 11:00	N/A	14.00	07/25/12 09:10	6.83	14.00	
GW0739	07/18/12 10:11	07/19/12 08:30	07/26/12 10:28	N/A	14.00	07/26/12 18:06	8.29	14.00	
GW0743	07/17/12 14:37	07/19/12 08:30	07/26/12 10:28	N/A	14.00	07/26/12 18:46	9.13	14.00	
GW0744	07/17/12 12:14	07/19/12 08:30	07/26/12 10:28	N/A	14.00	07/26/12 19:25	9.26	14.00	
GW0745	07/17/12 12:14	07/19/12 08:30	07/26/12 10:28	N/A	14.00	07/26/12 20:04	9.28	14.00	
GW0746	07/17/12 10:03	07/19/12 08:30	07/26/12 10:28	N/A	14.00	07/26/12 20:42	9.40	14.00	
GW0629	07/19/12 16:26	07/20/12 08:20	07/26/12 10:28	N/A	14.00	07/26/12 21:21	7.16	14.00	
GW0643	07/19/12 14:45	07/20/12 08:20	07/26/12 10:28	N/A	14.00	07/26/12 21:59	7.26	14.00	
GW0653	07/19/12 16:00	07/20/12 08:20	07/26/12 10:28	N/A	14.00	07/26/12 22:38	7.23	14.00	
GW0654	07/18/12 15:33	07/20/12 08:20	07/26/12 10:28	N/A	14.00	07/26/12 23:18	8.28	14.00	
GW0730	07/19/12 11:37	07/20/12 08:20	07/26/12 10:28	N/A	14.00	07/26/12 23:57	7.47	14.00	
GW0732	07/19/12 10:54	07/20/12 08:20	07/26/12 10:28	N/A	14.00	07/27/12 01:16	7.56	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G24021-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	07/24/12 17:44
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2G24021	Sequence:	2G20805	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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05944	119	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2G24021-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	07/24/12 17:03
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2G24021 Sequence: 2G20805 Calibration: 2206001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4621	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05819	116	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_057	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2G24021-MS2	File ID:	029F2901.D
Sampled:		Prepared:		Analyzed:	07/25/12 09:49
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2G24021 Sequence: 2G20805 Calibration: 2206001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.2820	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06217	124	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G24021-MSD2	File ID:	030F3001.D
Sampled:		Prepared:		Analyzed:	07/25/12 10:29
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2G24021	Sequence:	2G20805	Calibration:	2206001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.3582	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.02057	41.1	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2G26008-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	07/26/12 17:26
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2G26008 Sequence: 2G20914 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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07785	156	50 - 150	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G26008-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	07/26/12 16:46
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2G26008	Sequence:	2G20914	Calibration:	2206001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.3961	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06248	125	50 - 150	X

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20809	Instrument:	GL-ECD2
Calibration:	2208004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20809-CAL1	002R0101.D	07/24/12 09:58
Cal Standard	2G20809-CAL1	002F0101.D	07/24/12 09:58
Cal Standard	2G20809-CAL2	003R0101.D	07/24/12 10:19
Cal Standard	2G20809-CAL2	003F0101.D	07/24/12 10:19
Cal Standard	2G20809-CAL3	004R0101.D	07/24/12 10:41
Cal Standard	2G20809-CAL3	004F0101.D	07/24/12 10:41
Cal Standard	2G20809-CAL4	005R0101.D	07/24/12 11:03
Cal Standard	2G20809-CAL4	005F0101.D	07/24/12 11:03
Cal Standard	2G20809-CAL5	006R0101.D	07/24/12 11:25
Cal Standard	2G20809-CAL5	006F0101.D	07/24/12 11:25
Cal Standard	2G20809-CAL6	007R0101.D	07/24/12 11:47
Cal Standard	2G20809-CAL6	007F0101.D	07/24/12 11:47
Initial Cal Check	2G20809-ICV1	008R0101.D	07/24/12 12:09
Initial Cal Check	2G20809-ICV1	008F0101.D	07/24/12 12:09

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20810	Instrument:	GL-ECD2
Calibration:	2208004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20810-CCV1	009R0101.D	07/24/12 12:32
Calibration Check	2G20810-CCV1	009F0101.D	07/24/12 12:32
Blank	2G23016-BLK1	010F0101.D	07/24/12 12:54
Blank	2G23016-BLK1	010R0101.D	07/24/12 12:54
LCS	2G23016-BS1	011R0101.D	07/24/12 13:16
LCS	2G23016-BS1	011F0101.D	07/24/12 13:16
Calibration Check	2G20810-CCV2	015F0101.D	07/24/12 14:46
Calibration Check	2G20810-CCV2	015R0101.D	07/24/12 14:46
GW0655	1207102-01	016F0101.D	07/24/12 15:08
GW0655	1207102-01	016R0101.D	07/24/12 15:08
GW0656	1207102-03	017R0101.D	07/24/12 15:31
GW0656	1207102-03	017F0101.D	07/24/12 15:31
GW0657	1207102-05	018F0101.D	07/24/12 15:53
GW0657	1207102-05	018R0101.D	07/24/12 15:53
GW0685	1207102-07	019F0101.D	07/24/12 16:16
GW0685	1207102-07	019R0101.D	07/24/12 16:16
GW0686	1207102-09	020F0101.D	07/24/12 16:38
GW0686	1207102-09	020R0101.D	07/24/12 16:38
GW0737	1207102-11	021F0101.D	07/24/12 17:00
GW0737	1207102-11	021R0101.D	07/24/12 17:00
GW0738	1207102-13	022F0101.D	07/24/12 17:22
GW0738	1207102-13	022R0101.D	07/24/12 17:22
GW0738	2G23016-MS1	023F0101.D	07/24/12 17:44
GW0738	2G23016-MS1	023R0101.D	07/24/12 17:44
GW0738	2G23016-MSD1	024R0101.D	07/24/12 18:06
GW0738	2G23016-MSD1	024F0101.D	07/24/12 18:06
GW0739	1207102-15	025F0101.D	07/24/12 18:28
GW0739	1207102-15	025R0101.D	07/24/12 18:28
GW0743	1207102-17	026R0101.D	07/24/12 18:49
GW0743	1207102-17	026F0101.D	07/24/12 18:49
GW0744	1207102-19	027F0101.D	07/24/12 19:11
GW0744	1207102-19	027R0101.D	07/24/12 19:11

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20810	Instrument:	GL-ECD2
Calibration:	2208004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20810-CCV3	028R0101.D	07/24/12 19:32
Calibration Check	2G20810-CCV3	028F0101.D	07/24/12 19:32
GW0745	1207102-21	029F0101.D	07/24/12 19:53
GW0745	1207102-21	029R0101.D	07/24/12 19:53
GW0746	1207102-23	030R0101.D	07/24/12 20:15
GW0746	1207102-23	030F0101.D	07/24/12 20:15
Calibration Check	2G20810-CCV4	031F0101.D	07/24/12 20:36
Calibration Check	2G20810-CCV4	031R0101.D	07/24/12 20:36

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21408	Instrument:	GL-ECD2
Calibration:	2208004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H21408-CCV1	002R0101.D	07/27/12 10:14
Calibration Check	2H21408-CCV1	002F0101.D	07/27/12 10:14
Blank	2G26010-BLK1	003R0101.D	07/27/12 10:35
Blank	2G26010-BLK1	003F0101.D	07/27/12 10:35
LCS	2G26010-BS1	004R0101.D	07/27/12 10:56
LCS	2G26010-BS1	004F0101.D	07/27/12 10:56
GW0629	1207107-01	005F0101.D	07/27/12 11:18
GW0629	1207107-01	005R0101.D	07/27/12 11:18
GW0643	1207107-03	006F0101.D	07/27/12 11:40
GW0643	1207107-03	006R0101.D	07/27/12 11:40
GW0653	1207107-05	007F0101.D	07/27/12 12:02
GW0653	1207107-05	007R0101.D	07/27/12 12:02
GW0654	1207107-07	008F0101.D	07/27/12 12:24
GW0654	1207107-07	008R0101.D	07/27/12 12:24
GW0730	1207107-09	009R0101.D	07/27/12 12:46
GW0730	1207107-09	009F0101.D	07/27/12 12:46
GW0732	1207107-11	010R0101.D	07/27/12 13:08
GW0732	1207107-11	010F0101.D	07/27/12 13:08
BF105-MW01-071812	2G26010-MS1	014F0101.D	07/27/12 14:37
BF105-MW01-071812	2G26010-MS1	014R0101.D	07/27/12 14:37
BF105-MW01-071812	2G26010-MSD1	015F0101.D	07/27/12 14:59
BF105-MW01-071812	2G26010-MSD1	015R0101.D	07/27/12 14:59
Calibration Check	2H21408-CCV2	017R0101.D	07/27/12 15:44
Calibration Check	2H21408-CCV2	017F0101.D	07/27/12 15:44

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01	File ID:	016R0101.D
Sampled:	07/18/12 13:32	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 15:08
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00928	0.0186	0.0278	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.855	1.508	81.3	30 - 130	
1,3-Dibromopropane [2C]	1.855	1.384	74.6	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03	File ID:	017R0101.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 15:31
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00935	0.0187	0.0280	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.869	1.591	85.1	30 - 130	
1,3-Dibromopropane [2C]	1.869	1.478	79.1	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05	File ID:	018R0101.D
Sampled:	07/18/12 11:06	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 15:53
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00936	0.0187	0.0281	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.872	1.566	83.7	30 - 130	
1,3-Dibromopropane [2C]	1.872	1.452	77.6	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07	File ID:	019F0101.D
Sampled:	07/16/12 14:45	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 16:16
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.279	0.00939	0.0188	0.0282	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.879	1.513	80.5	30 - 130	
1,3-Dibromopropane [2C]	1.879	1.401	74.6	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09	File ID:	020F0101.D
Sampled:	07/16/12 12:44	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 16:38
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.429	0.00943	0.0189	0.0283	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.886	1.617	85.7	30 - 130	
1,3-Dibromopropane [2C]	1.886	1.493	79.2	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11	File ID:	021R0101.D
Sampled:	07/18/12 14:41	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 17:00
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00935	0.0187	0.0280	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.869	1.629	87.1	30 - 130	
1,3-Dibromopropane [2C]	1.869	1.515	81.0	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13	File ID:	022R0101.D
Sampled:	07/18/12 12:10	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 17:22
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 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	1.876	1.599	85.3	30 - 130	
1,3-Dibromopropane [2C]	1.876	1.490	79.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15	File ID:	025R0101.D
Sampled:	07/18/12 10:11	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 18:28
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.867	1.353	72.5	30 - 130	
1,3-Dibromopropane [2C]	1.867	1.265	67.8	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17	File ID:	026R0101.D
Sampled:	07/17/12 14:37	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 18:49
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0536	0.00932	0.0186	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.864	1.393	74.8	30 - 130	
1,3-Dibromopropane [2C]	1.864	1.305	70.0	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19	File ID:	027R0101.D
Sampled:	07/17/12 12:14	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 19:11
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.174	0.00935	0.0187	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.870	1.550	82.9	30 - 130	
1,3-Dibromopropane [2C]	1.870	1.446	77.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21	File ID:	029R0101.D
Sampled:	07/17/12 12:14	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 19:53
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.152	0.00935	0.0187	0.0281	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.871	1.415	75.7	30 - 130	
1,3-Dibromopropane [2C]	1.871	1.329	71.1	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23	File ID:	030R0101.D
Sampled:	07/17/12 10:03	Prepared:	07/23/12 10:53	Analyzed:	07/24/12 20:15
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00925	0.0185	0.0278	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.850	1.458	78.8	30 - 130	
1,3-Dibromopropane [2C]	1.850	1.365	73.8	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01	File ID:	005F0101.D
Sampled:	07/19/12 16:26	Prepared:	07/26/12 10:49	Analyzed:	07/27/12 11:18
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00939	0.0188	0.0282	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.878	1.263	67.3	30 - 130	
1,3-Dibromopropane [2C]	1.878	1.252	66.7	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03	File ID:	006R0101.D
Sampled:	07/19/12 14:45	Prepared:	07/26/12 10:49	Analyzed:	07/27/12 11:40
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00926	0.0185	0.0278	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.851	1.166	63.0	30 - 130	
1,3-Dibromopropane [2C]	1.851	1.148	62.0	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05	File ID:	007R0101.D
Sampled:	07/19/12 16:00	Prepared:	07/26/12 10:49	Analyzed:	07/27/12 12:02
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00924	0.0185	0.0277	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.848	1.311	71.0	30 - 130	
1,3-Dibromopropane [2C]	1.848	1.300	70.3	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07	File ID:	008F0101.D
Sampled:	07/18/12 15:33	Prepared:	07/26/12 10:49	Analyzed:	07/27/12 12:24
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00935	0.0187	0.0280	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.869	1.490	79.7	30 - 130	
1,3-Dibromopropane [2C]	1.869	1.461	78.2	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09	File ID:	009R0101.D
Sampled:	07/19/12 11:37	Prepared:	07/26/12 10:49	Analyzed:	07/27/12 12:46
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00928	0.0186	0.0278	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.856	1.427	76.9	30 - 130	
1,3-Dibromopropane [2C]	1.856	1.396	75.2	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11	File ID:	010R0101.D
Sampled:	07/19/12 10:54	Prepared:	07/26/12 10:49	Analyzed:	07/27/12 13:08
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00918	0.0184	0.0275	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.836	1.151	62.7	30 - 130	
1,3-Dibromopropane [2C]	1.836	1.113	60.6	30 - 130	

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23016	Laboratory ID:	2G23016-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	0.4897	97.9	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5052	101	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G26010	Laboratory ID:	2G26010-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	0.4810	96.2	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5081	102	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23016

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4648	ND	0.3601	77.5		70 - 130
1,2-Dibromoethane [2C]	0.4648	ND	0.3653	78.6		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4679	0.3969	84.8	9.73		20	70 - 130
1,2-Dibromoethane [2C]	0.4679	0.4037	86.3	10.0		20	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

BF105-MW01-071812

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G26010

% Solids:

Source Sample Name: **1207109-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4766	ND	0.4372	91.7		70 - 130
1,2-Dibromoethane [2C]	0.4766	ND	0.4805	101		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4643	0.3134	67.5	33.0	* *	20	70 - 130
1,2-Dibromoethane [2C]	0.4643	0.3497	75.3	31.5	*	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G23016 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/23/12 10:53	37.73	35.00
GW0656	1207102-03	07/23/12 10:53	37.45	35.00
GW0657	1207102-05	07/23/12 10:53	37.39	35.00
GW0685	1207102-07	07/23/12 10:53	37.26	35.00
GW0686	1207102-09	07/23/12 10:53	37.11	35.00
GW0737	1207102-11	07/23/12 10:53	37.45	35.00
GW0738	1207102-13	07/23/12 10:53	37.32	35.00
GW0739	1207102-15	07/23/12 10:53	37.50	35.00
GW0743	1207102-17	07/23/12 10:53	37.56	35.00
GW0744	1207102-19	07/23/12 10:53	37.44	35.00
GW0745	1207102-21	07/23/12 10:53	37.42	35.00
GW0746	1207102-23	07/23/12 10:53	37.83	35.00
Blank	2G23016-BLK1	07/23/12 10:53	35.00	35.00
LCS	2G23016-BS1	07/23/12 10:53	35.00	35.00
GW0738	2G23016-MS1	07/23/12 10:53	37.65	35.00
GW0738	2G23016-MSD1	07/23/12 10:53	37.40	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G26010 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0629	1207107-01	07/26/12 10:49	37.28	35.00
GW0643	1207107-03	07/26/12 10:49	37.81	35.00
GW0653	1207107-05	07/26/12 10:49	37.87	35.00
GW0654	1207107-07	07/26/12 10:49	37.45	35.00
GW0730	1207107-09	07/26/12 10:49	37.71	35.00
GW0732	1207107-11	07/26/12 10:49	38.12	35.00
Blank	2G26010-BLK1	07/26/12 10:49	35.00	35.00
LCS	2G26010-BS1	07/26/12 10:49	35.00	35.00
BF105-MW01-071812	2G26010-MS1	07/26/12 10:49	36.72	35.00
BF105-MW01-071812	2G26010-MSD1	07/26/12 10:49	37.69	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G23016-BLK1	File ID:	010R0101.D
Sampled:		Prepared:	07/23/12 10:53	Analyzed:	07/24/12 12:54
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G23016	Sequence:	2G20810	Calibration:	2208004	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	1.927	96.3	30 - 130	
1,3-Dibromopropane [2C]	2.000	1.786	89.3	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2G26010-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	07/26/12 10:49	Analyzed:	07/27/12 10:35
Solids:		Preparation:	EDB	Dilution:	

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 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	1.847	92.4	30 - 130	
1,3-Dibromopropane [2C]	2.000	1.828	91.4	30 - 130	

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20809	Instrument:	GL-ECD2
Calibration:	2208004		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12G0429	EDB ICAL 1 (0.02ppb)	2G20809-CAL1	002R0101.D	07/24/12 09:58
12G0429	EDB ICAL 1 (0.02ppb)	2G20809-CAL1	002F0101.D	07/24/12 09:58
12G0430	EDB ICAL 2 (0.05ppb)	2G20809-CAL2	003R0101.D	07/24/12 10:19
12G0430	EDB ICAL 2 (0.05ppb)	2G20809-CAL2	003F0101.D	07/24/12 10:19
12G0431	EDB ICAL 3 (0.10ppb)	2G20809-CAL3	004R0101.D	07/24/12 10:41
12G0431	EDB ICAL 3 (0.10ppb)	2G20809-CAL3	004F0101.D	07/24/12 10:41
12G0432	EDB ICAL 4 (0.20ppb)	2G20809-CAL4	005R0101.D	07/24/12 11:03
12G0432	EDB ICAL 4 (0.20ppb)	2G20809-CAL4	005F0101.D	07/24/12 11:03
12G0433	EDB ICAL 5 (0.5ppb)	2G20809-CAL5	006R0101.D	07/24/12 11:25
12G0433	EDB ICAL 5 (0.5ppb)	2G20809-CAL5	006F0101.D	07/24/12 11:25
12G0434	EDB ICAL 6 (1.0ppb)	2G20809-CAL6	007R0101.D	07/24/12 11:47
12G0434	EDB ICAL 6 (1.0ppb)	2G20809-CAL6	007F0101.D	07/24/12 11:47

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2208004	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/24/12 9:58	7/24/12 11:47

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	41150	0.05	29020	0.1	22780	0.2	19470	0.5	16302	1	14768
1,2-Dibromoethane [2C]	0.02	67200	0.05	46820	0.1	38970	0.2	36435	0.5	33890	1	31733
1,2-Dibromo-3-chloropropane	0.02	67100	0.05	43860	0.1	35950	0.2	30840	0.5	24626	1	21490
1,2-Dibromo-3-chloropropane [2C]	0.02	405550	0.05	197040	0.1	123430	0.2	90405	0.5	68324	1	60776
1,3-Dibromopropane	0.1	33710	0.2	39675	0.5	41100	1	40058	2	35038.5	4	30737.5
1,3-Dibromopropane [2C]	0.1	140610	0.2	139970	0.5	134002	1	128224	2	110410	4	98875.5

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2208004	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/24/12 9:58	7/24/12 11:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	23915	41.21578	2.418	9.250722E-02	0.9982532		0.995	
1,2-Dibromoethane [2C]	42508	30.99692	2.2835	5.589195E-02	0.9994235		0.995	
1,2-Dibromo-3-chloropropane	37311	44.61043	8.5225	0.0323672	0.99562		0.995	
1,2-Dibromo-3-chloropropane [2C]	157587.5	83.25309	8.710167	4.340401E-02	0.9999462		0.995	
1,3-Dibromopropane	36719.83	11.34267	5.7385	9.311282E-02			20	
1,3-Dibromopropane [2C]	125348.6	13.60356	5.651833	0.0993681			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	008F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2G20809	Injection Date:	07/24/12
Lab Sample ID:	2G20809-ICV1	Injection Time:	12:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5191	23915	16320		3.8	20
1,2-Dibromoethane [2C]	L	0.5000	0.5136	42508	33750		2.7	20
1,3-Dibromopropane	A	2.000	1.905	36719.83	34977		-4.7	20
1,3-Dibromopropane [2C]	A	2.000	1.770	125348.6	110945.5		-11.5	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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	009F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2G20810	Injection Date:	07/24/12
Lab Sample ID:	2G20810-CCV1	Injection Time:	12:32

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5046	23915	15912		0.9	20
1,2-Dibromoethane [2C]	L	0.5000	0.5069	42508	33330		1.4	20
1,3-Dibromopropane	A	2.000	1.881	36719.83	34542.5		-5.9	20
1,3-Dibromopropane [2C]	A	2.000	1.744	125348.6	109273.5		-12.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	015F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2G20810	Injection Date:	07/24/12
Lab Sample ID:	2G20810-CCV2	Injection Time:	14:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4838	23915	15324		-3.2	20
1,2-Dibromoethane [2C]	L	0.5000	0.4802	42508	31670		-4.0	20
1,3-Dibromopropane	A	2.000	1.853	36719.83	34029.5		-7.3	20
1,3-Dibromopropane [2C]	A	2.000	1.721	125348.6	107854		-14.0	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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	028F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2G20810	Injection Date:	07/24/12
Lab Sample ID:	2G20810-CCV3	Injection Time:	19:32

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4618	23915	14702		-7.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.4802	42508	31672		-4.0	20
1,3-Dibromopropane	A	2.000	1.792	36719.83	32901.5		-10.4	20
1,3-Dibromopropane [2C]	A	2.000	1.688	125348.6	105808		-15.6	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_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	031F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2G20810	Injection Date:	07/24/12
Lab Sample ID:	2G20810-CCV4	Injection Time:	20:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4622	23915	14712		-7.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.4818	42508	31766		-3.6	20
1,3-Dibromopropane	A	2.000	1.814	36719.83	33315.5		-9.3	20
1,3-Dibromopropane [2C]	A	2.000	1.701	125348.6	106617.5		-14.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	002F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2H21408	Injection Date:	07/27/12
Lab Sample ID:	2H21408-CCV1	Injection Time:	10:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4926	23915	15572		-1.5	20
1,2-Dibromoethane [2C]	L	0.5000	0.5444	42508	35664		8.9	20
1,3-Dibromopropane	A	2.000	1.842	36719.83	33820.5		-7.9	20
1,3-Dibromopropane [2C]	A	2.000	1.810	125348.6	113431		-9.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2208004
Lab File ID:	017F0101.D	Calibration Date:	07/24/12 09:58
Sequence:	2H21408	Injection Date:	07/27/12
Lab Sample ID:	2H21408-CCV2	Injection Time:	15:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4563	23915	14546		-8.7	20
1,2-Dibromoethane [2C]	L	0.5000	0.5307	42508	34812		6.1	20
1,3-Dibromopropane	A	2.000	1.823	36719.83	33473.5		-8.8	20
1,3-Dibromopropane [2C]	A	2.000	1.774	125348.6	111200.5		-11.3	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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20810	Instrument:	GL-ECD2
		Calibration:	2208004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2G20810-CCV1) ug/L				Lab File ID: 009F0101.D		Analyzed: 07/24/12 12:32		
1,3-Dibromopropane	2.000	94.0	80 - 120	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	87.2	80 - 120	5.646	5.646	0.0000	+/-0.030	
Blank (2G23016-BLK1) ug/L				Lab File ID: 010F0101.D		Analyzed: 07/24/12 12:54		
1,3-Dibromopropane	2.000	96.3	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	89.3	30 - 130	5.646	5.646	0.0000	+/-0.030	
LCS (2G23016-BS1) ug/L				Lab File ID: 011F0101.D		Analyzed: 07/24/12 13:16		
1,3-Dibromopropane	2.000	96.0	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	88.8	30 - 130	5.646	5.646	0.0000	+/-0.030	
Calibration Check (2G20810-CCV2) ug/L				Lab File ID: 015F0101.D		Analyzed: 07/24/12 14:46		
1,3-Dibromopropane	2.000	92.6	80 - 120	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	86.0	80 - 120	5.646	5.646	0.0000	+/-0.030	
GW0655 (1207102-01) ug/L				Lab File ID: 016F0101.D		Analyzed: 07/24/12 15:08		
1,3-Dibromopropane	1.855	81.3	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.855	74.6	30 - 130	5.646	5.646	0.0000	+/-0.030	
GW0656 (1207102-03) ug/L				Lab File ID: 017F0101.D		Analyzed: 07/24/12 15:31		
1,3-Dibromopropane	1.869	85.1	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.869	79.1	30 - 130	5.646	5.646	0.0000	+/-0.030	
GW0657 (1207102-05) ug/L				Lab File ID: 018F0101.D		Analyzed: 07/24/12 15:53		
1,3-Dibromopropane	1.872	83.7	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.872	77.6	30 - 130	5.646	5.646	0.0000	+/-0.030	
GW0685 (1207102-07) ug/L				Lab File ID: 019F0101.D		Analyzed: 07/24/12 16:16		
1,3-Dibromopropane	1.879	80.5	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.879	74.6	30 - 130	5.646	5.646	0.0000	+/-0.030	
GW0686 (1207102-09) ug/L				Lab File ID: 020F0101.D		Analyzed: 07/24/12 16:38		
1,3-Dibromopropane	1.886	85.7	30 - 130	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.886	79.2	30 - 130	5.646	5.646	0.0000	+/-0.030	
GW0737 (1207102-11) ug/L				Lab File ID: 021F0101.D		Analyzed: 07/24/12 17:00		
1,3-Dibromopropane	1.869	87.1	30 - 130	5.736	5.733	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.869	81.0	30 - 130	5.65	5.646	0.0040	+/-0.030	
GW0738 (1207102-13) ug/L				Lab File ID: 022F0101.D		Analyzed: 07/24/12 17:22		
1,3-Dibromopropane	1.876	85.3	30 - 130	5.736	5.733	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.876	79.4	30 - 130	5.65	5.646	0.0040	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20810	Instrument:	GL-ECD2
		Calibration:	2208004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (2G23016-MS1) ug/L				Lab File ID: 023F0101.D		Analyzed: 07/24/12 17:44		
1,3-Dibromopropane	1.859	72.6	30 - 130	5.736	5.733	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.859	67.5	30 - 130	5.653	5.646	0.0070	+/-0.030	
Matrix Spike Dup (2G23016-MSD1) ug/L				Lab File ID: 024F0101.D		Analyzed: 07/24/12 18:06		
1,3-Dibromopropane	1.872	81.1	30 - 130	5.736	5.733	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.872	75.9	30 - 130	5.653	5.646	0.0070	+/-0.030	
GW0739 (1207102-15) ug/L				Lab File ID: 025F0101.D		Analyzed: 07/24/12 18:28		
1,3-Dibromopropane	1.867	72.5	30 - 130	5.74	5.733	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.867	67.8	30 - 130	5.653	5.646	0.0070	+/-0.030	
GW0743 (1207102-17) ug/L				Lab File ID: 026F0101.D		Analyzed: 07/24/12 18:49		
1,3-Dibromopropane	1.864	74.8	30 - 130	5.74	5.733	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.864	70.0	30 - 130	5.656	5.646	0.0100	+/-0.030	
GW0744 (1207102-19) ug/L				Lab File ID: 027F0101.D		Analyzed: 07/24/12 19:11		
1,3-Dibromopropane	1.870	82.9	30 - 130	5.74	5.733	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.870	77.4	30 - 130	5.656	5.646	0.0100	+/-0.030	
Calibration Check (2G20810-CCV3) ug/L				Lab File ID: 028F0101.D		Analyzed: 07/24/12 19:32		
1,3-Dibromopropane	2.000	89.6	80 - 120	5.743	5.733	0.0100	+/-0.030	
1,3-Dibromopropane [2C]	2.000	84.4	80 - 120	5.656	5.646	0.0100	+/-0.030	
GW0745 (1207102-21) ug/L				Lab File ID: 029F0101.D		Analyzed: 07/24/12 19:53		
1,3-Dibromopropane	1.871	75.7	30 - 130	5.743	5.733	0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.871	71.1	30 - 130	5.66	5.646	0.0140	+/-0.030	
GW0746 (1207102-23) ug/L				Lab File ID: 030F0101.D		Analyzed: 07/24/12 20:15		
1,3-Dibromopropane	1.850	78.8	30 - 130	5.743	5.733	0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.850	73.8	30 - 130	5.66	5.646	0.0140	+/-0.030	
Calibration Check (2G20810-CCV4) ug/L				Lab File ID: 031F0101.D		Analyzed: 07/24/12 20:36		
1,3-Dibromopropane	2.000	90.7	80 - 120	5.743	5.733	0.0100	+/-0.030	
1,3-Dibromopropane [2C]	2.000	85.0	80 - 120	5.66	5.646	0.0140	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21408	Instrument:	GL-ECD2
		Calibration:	2208004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H21408-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 07/27/12 10:14		
1,3-Dibromopropane	2.000	92.1	80 - 120	5.74	5.74	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	90.5	80 - 120	5.656	5.656	0.0000	+/-0.030	
Blank (2G26010-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 07/27/12 10:35		
1,3-Dibromopropane	2.000	92.4	30 - 130	5.736	5.74	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	2.000	91.4	30 - 130	5.653	5.656	-0.0030	+/-0.030	
LCS (2G26010-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 07/27/12 10:56		
1,3-Dibromopropane	2.000	90.3	30 - 130	5.736	5.74	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	2.000	89.4	30 - 130	5.65	5.656	-0.0060	+/-0.030	
GW0629 (1207107-01) ug/L				Lab File ID: 005F0101.D		Analyzed: 07/27/12 11:18		
1,3-Dibromopropane	1.878	67.3	30 - 130	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.878	66.7	30 - 130	5.65	5.656	-0.0060	+/-0.030	
GW0643 (1207107-03) ug/L				Lab File ID: 006F0101.D		Analyzed: 07/27/12 11:40		
1,3-Dibromopropane	1.851	63.0	30 - 130	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.851	62.0	30 - 130	5.65	5.656	-0.0060	+/-0.030	
GW0653 (1207107-05) ug/L				Lab File ID: 007F0101.D		Analyzed: 07/27/12 12:02		
1,3-Dibromopropane	1.848	71.0	30 - 130	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.848	70.3	30 - 130	5.646	5.656	-0.0100	+/-0.030	
GW0654 (1207107-07) ug/L				Lab File ID: 008F0101.D		Analyzed: 07/27/12 12:24		
1,3-Dibromopropane	1.869	79.7	30 - 130	5.733	5.74	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.869	78.2	30 - 130	5.646	5.656	-0.0100	+/-0.030	
GW0730 (1207107-09) ug/L				Lab File ID: 009F0101.D		Analyzed: 07/27/12 12:46		
1,3-Dibromopropane	1.856	76.9	30 - 130	5.73	5.74	-0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.856	75.2	30 - 130	5.646	5.656	-0.0100	+/-0.030	
GW0732 (1207107-11) ug/L				Lab File ID: 010F0101.D		Analyzed: 07/27/12 13:08		
1,3-Dibromopropane	1.836	62.7	30 - 130	5.73	5.74	-0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.836	60.6	30 - 130	5.646	5.656	-0.0100	+/-0.030	
Matrix Spike (2G26010-MS1) ug/L				Lab File ID: 014F0101.D		Analyzed: 07/27/12 14:37		
1,3-Dibromopropane	1.906	83.3	30 - 130	5.73	5.74	-0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.906	80.6	30 - 130	5.643	5.656	-0.0130	+/-0.030	
Matrix Spike Dup (2G26010-MSD1) ug/L				Lab File ID: 015F0101.D		Analyzed: 07/27/12 14:59		
1,3-Dibromopropane	1.857	61.8	30 - 130	5.73	5.74	-0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.857	59.7	30 - 130	5.646	5.656	-0.0100	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21408	Instrument:	GL-ECD2
		Calibration:	2208004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H21408-CCV2) ug/L				Lab File ID: 017F0101.D		Analyzed: 07/27/12 15:44		
1,3-Dibromopropane	2.000	91.2	80 - 120	5.73	5.74	-0.0100	+/-0.030	
1,3-Dibromopropane [2C]	2.000	88.7	80 - 120	5.646	5.656	-0.0100	+/-0.030	

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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
GW0655	07/18/12 13:32	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 15:08	6.03	14.00	
GW0656	07/18/12 11:06	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 15:31	6.14	14.00	
GW0657	07/18/12 11:06	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 15:53	6.16	14.00	
GW0685	07/16/12 14:45	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 16:16	8.02	14.00	
GW0686	07/16/12 12:44	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 16:38	8.12	14.00	
GW0737	07/18/12 14:41	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 17:00	6.05	14.00	
GW0738	07/18/12 12:10	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 17:22	6.18	14.00	
GW0739	07/18/12 10:11	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 18:28	6.30	14.00	
GW0743	07/17/12 14:37	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 18:49	7.13	14.00	
GW0744	07/17/12 12:14	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 19:11	7.25	14.00	
GW0745	07/17/12 12:14	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 19:53	7.28	14.00	
GW0746	07/17/12 10:03	07/19/12 08:30	07/23/12 10:53	N/A	14.00	07/24/12 20:15	7.38	14.00	
GW0629	07/19/12 16:26	07/20/12 08:20	07/26/12 10:49	N/A	14.00	07/27/12 11:18	7.74	14.00	
GW0643	07/19/12 14:45	07/20/12 08:20	07/26/12 10:49	N/A	14.00	07/27/12 11:40	7.83	14.00	
GW0653	07/19/12 16:00	07/20/12 08:20	07/26/12 10:49	N/A	14.00	07/27/12 12:02	7.79	14.00	
GW0654	07/18/12 15:33	07/20/12 08:20	07/26/12 10:49	N/A	14.00	07/27/12 12:24	8.83	14.00	
GW0730	07/19/12 11:37	07/20/12 08:20	07/26/12 10:49	N/A	14.00	07/27/12 12:46	8.01	14.00	
GW0732	07/19/12 10:54	07/20/12 08:20	07/26/12 10:49	N/A	14.00	07/27/12 13:08	8.05	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G23016-BS1	File ID:	011F0101.D
Sampled:		Prepared:		Analyzed:	07/24/12 13:16
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G23016	Sequence:	2G20810	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4897	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	1.919	96.0	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G23016-BS1	File ID:	011R0101.D
Sampled:		Prepared:		Analyzed:	07/24/12 13:16
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G23016	Sequence:	2G20810	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5052	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	1.776	88.8	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G23016-MS1	File ID:	023F0101.D
Sampled:		Prepared:		Analyzed:	07/24/12 17:44
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G23016	Sequence:	2G20810	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.3601	0.00930	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.859	1.350	72.6	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2G23016-MS1	File ID:	023R0101.D
Sampled:		Prepared:		Analyzed:	07/24/12 17:44
Solids:		Preparation:	EDB	Dilution:	

Batch: 2G23016 Sequence: 2G20810 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.3653	0.00930	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.859	1.254	67.5	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G23016-MSD1	File ID:	024F0101.D
Sampled:		Prepared:		Analyzed:	07/24/12 18:06
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G23016	Sequence:	2G20810	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.3969	0.00936	0.0187	0.0281	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.872	1.518	81.1	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G23016-MSD1	File ID:	024R0101.D
Sampled:		Prepared:		Analyzed:	07/24/12 18:06
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G23016	Sequence:	2G20810	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4037	0.00936	0.0187	0.0281	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.872	1.421	75.9	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G26010-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	07/27/12 10:56
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G26010	Sequence:	2H21408	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4810	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	1.806	90.3	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G26010-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	07/27/12 10:56
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G26010	Sequence:	2H21408	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5081	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	1.788	89.4	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G26010-MS1	File ID:	014F0101.D
Sampled:		Prepared:		Analyzed:	07/27/12 14:37
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G26010	Sequence:	2H21408	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4372	0.00953	0.0191	0.0286	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.906	1.587	83.3	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_057
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2G26010-MS1	File ID:	014R0101.D
Sampled:		Prepared:		Analyzed:	07/27/12 14:37
Solids:		Preparation:	EDB	Dilution:	

Batch: 2G26010 Sequence: 2H21408 Calibration: 2208004 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4805	0.00953	0.0191	0.0286	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.906	1.536	80.6	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G26010-MSD1	File ID:	015F0101.D
Sampled:		Prepared:		Analyzed:	07/27/12 14:59
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G26010	Sequence:	2H21408	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.3134	0.00929	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.857	1.149	61.8	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2G26010-MSD1	File ID:	015R0101.D
Sampled:		Prepared:		Analyzed:	07/27/12 14:59
Solids:		Preparation:	EDB	Dilution:	

Batch:	2G26010	Sequence:	2H21408	Calibration:	2208004	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.3497	0.00929	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.857	1.109	59.7	30 - 130	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0685

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1207102-07 Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.279	
	2	2.28	2.25	2.31	0.276	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0686

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1207102-09 Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.429	
	2	2.28	2.25	2.31	0.410	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0743

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1207102-17

Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.0504	
	2	2.29	2.25	2.31	0.0536	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0744

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1207102-19

Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.167	
	2	2.29	2.25	2.31	0.174	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0745

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1207102-21 Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.142	
	2	2.29	2.25	2.31	0.152	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G23016-BS1 Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.4897	
	2	2.28	2.25	2.31	0.5052	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G23016-MS1 Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.3601	
	2	2.29	2.25	2.31	0.3653	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G23016-MSD1 Date(s) Analyzed: 07/24/2012 07/24/2012

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	0.3969	
	2	2.29	2.25	2.31	0.4037	2

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G26010-BS1 Date(s) Analyzed: 07/27/2012 07/27/2012

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	0.4810	
	2	2.28	2.25	2.31	0.5081	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G26010-MS1 Date(s) Analyzed: 07/27/2012 07/27/2012

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	0.4372	
	2	2.28	2.25	2.31	0.4805	9

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2G26010-MSD1 Date(s) Analyzed: 07/27/2012 07/27/2012

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	2.41	2.39	2.45	0.3134	
	2	2.28	2.25	2.31	0.3497	11

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01
Sampled:	07/18/12 13:32	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	82500	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:21
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:21
7439-95-4	Magnesium	11200	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:21
7440-09-7	Potassium	2930	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:21
7440-23-5	Sodium	30000	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:21

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-02
Sampled:	07/18/12 13:32	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:18
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:18

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03
Sampled:	07/18/12 11:06	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	57500	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:26
7439-95-4	Magnesium	7860	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:26
7440-09-7	Potassium	2600	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:26
7440-23-5	Sodium	25400	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:26

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-04
Sampled:	07/18/12 11:06	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:22
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:22

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05
Sampled:	07/18/12 11:06	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	58400	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:30
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:30
7439-95-4	Magnesium	7960	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:30
7440-09-7	Potassium	2620	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:30
7440-23-5	Sodium	25800	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:30

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-06
Sampled:	07/18/12 11:06	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:27
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:27

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07
Sampled:	07/16/12 14:45	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	42300	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:34
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:34
7439-95-4	Magnesium	5620	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:34
7440-09-7	Potassium	2170	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:34
7440-23-5	Sodium	23900	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:34

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-08
Sampled:	07/18/12 14:45	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:31
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:31

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09
Sampled:	07/16/12 12:44	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36900	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:39
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:39
7439-95-4	Magnesium	4930	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:39
7440-09-7	Potassium	2040	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:39
7440-23-5	Sodium	22700	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:39

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-10
Sampled:	07/18/12 12:44	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:36
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:36

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11
Sampled:	07/18/12 14:41	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	102000	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:43
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:43
7439-95-4	Magnesium	15100	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:43
7440-09-7	Potassium	3660	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:43
7440-23-5	Sodium	43300	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:43

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-12
Sampled:	07/18/12 14:41	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:40
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:40

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-13
Sampled:	07/18/12 12:10	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	97800	1000	2000	5000	1		SW6010B	2G23010	07/24/12 15:48
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 15:48
7439-95-4	Magnesium	14500	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:48
7440-09-7	Potassium	3540	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 15:48
7440-23-5	Sodium	43000	1000	3000	5000	1		SW6010B	2G23010	07/24/12 15:48

ANALYSIS DATA SHEET

GW0738

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-14
Sampled:	07/18/12 12:10	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 14:45
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 14:45

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15
Sampled:	07/18/12 10:11	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33200	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:11
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:11
7439-95-4	Magnesium	4870	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:11
7440-09-7	Potassium	2210	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:11
7440-23-5	Sodium	24100	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:11

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-16
Sampled:	07/18/12 10:11	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 15:03
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 15:03

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17
Sampled:	07/17/12 14:37	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	42000	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:16
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:16
7439-95-4	Magnesium	5640	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:16
7440-09-7	Potassium	2260	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:16
7440-23-5	Sodium	23200	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:16

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-18
Sampled:	07/17/12 14:37	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 15:07
7439-96-5	Manganese (dissolved)	3.86	3.00	6.00	15.0	1	J	SW6010B	2G27004	07/27/12 15:07

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19
Sampled:	07/17/12 12:14	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	43700	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:20
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:20
7439-95-4	Magnesium	5710	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:20
7440-09-7	Potassium	2440	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:20
7440-23-5	Sodium	23800	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:20

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-20
Sampled:	07/17/12 12:14	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2G27004	07/27/12 15:12
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 15:12

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21
Sampled:	07/17/12 12:14	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41800	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:38
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:38
7439-95-4	Magnesium	5470	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:38
7440-09-7	Potassium	2340	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:38
7440-23-5	Sodium	22800	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:38

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-22
Sampled:	07/17/12 12:14	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	2G27004	07/27/12 15:29
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 15:29

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23
Sampled:	07/17/12 10:03	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	37000	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:42
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:42
7439-95-4	Magnesium	4930	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:42
7440-09-7	Potassium	2130	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:42
7440-23-5	Sodium	21600	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:42

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-24
Sampled:	07/17/12 10:03	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	2G27004	07/27/12 15:34
7439-96-5	Manganese (dissolved)	3.09	3.00	6.00	15.0	1	J	SW6010B	2G27004	07/27/12 15:34

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01
Sampled:	07/19/12 16:26	Received:	07/20/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	48400	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:46
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:46
7439-95-4	Magnesium	7390	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:46
7440-09-7	Potassium	2340	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:46
7440-23-5	Sodium	23500	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:46

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-02
Sampled:	07/19/12 16:26	Received:	07/20/12 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	X U	SW6010B	2G27004	07/27/12 15:38
7439-96-5	Manganese (dissolved)	19.6	3.00	6.00	15.0	1		SW6010B	2G27004	07/27/12 15:38

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03
Sampled:	07/19/12 14:45	Received:	07/20/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	39900	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:51
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:51
7439-95-4	Magnesium	5940	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:51
7440-09-7	Potassium	2180	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:51
7440-23-5	Sodium	21700	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:51

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-04
Sampled:	07/19/12 14:45	Received:	07/20/12 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	X U	SW6010B	2G27004	07/27/12 15:42
7439-96-5	Manganese (dissolved)	19.4	3.00	6.00	15.0	1		SW6010B	2G27004	07/27/12 15:42

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05
Sampled:	07/19/12 16:00	Received:	07/20/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	80400	1000	2000	5000	1		SW6010B	2G23010	07/24/12 16:55
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 16:55
7439-95-4	Magnesium	10600	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:55
7440-09-7	Potassium	3200	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 16:55
7440-23-5	Sodium	31700	1000	3000	5000	1		SW6010B	2G23010	07/24/12 16:55

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-06
Sampled:	07/19/12 16:00	Received:	07/20/12 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	X U	SW6010B	2G27004	07/27/12 15:47
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 15:47

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07
Sampled:	07/18/12 15:33	Received:	07/20/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	86700	1000	2000	5000	1		SW6010B	2G23010	07/24/12 17:00
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 17:00
7439-95-4	Magnesium	12000	1000	3000	5000	1		SW6010B	2G23010	07/24/12 17:00
7440-09-7	Potassium	3170	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 17:00
7440-23-5	Sodium	33100	1000	3000	5000	1		SW6010B	2G23010	07/24/12 17:00

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-08
Sampled:	07/18/12 15:33	Received:	07/20/12 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	X U	SW6010B	2G27004	07/27/12 15:51
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 15:51

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09
Sampled:	07/19/12 11:37	Received:	07/20/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	40100	1000	2000	5000	1		SW6010B	2G23010	07/24/12 17:04
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 17:04
7439-95-4	Magnesium	5730	1000	3000	5000	1		SW6010B	2G23010	07/24/12 17:04
7440-09-7	Potassium	2110	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 17:04
7440-23-5	Sodium	22900	1000	3000	5000	1		SW6010B	2G23010	07/24/12 17:04

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-10
Sampled:	07/19/12 11:37	Received:	07/20/12 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	X U	SW6010B	2G27004	07/27/12 15:56
7439-96-5	Manganese (dissolved)	5.99	3.00	6.00	15.0	1	J	SW6010B	2G27004	07/27/12 15:56

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11
Sampled:	07/19/12 10:54	Received:	07/20/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	31800	1000	2000	5000	1		SW6010B	2G23010	07/24/12 17:09
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2G23010	07/24/12 17:09
7439-95-4	Magnesium	4380	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 17:09
7440-09-7	Potassium	1930	1000	3000	5000	1	J	SW6010B	2G23010	07/24/12 17:09
7440-23-5	Sodium	20000	1000	3000	5000	1		SW6010B	2G23010	07/24/12 17:09

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-12
Sampled:	07/19/12 10:54	Received:	07/20/12 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	X U	SW6010B	2G27004	07/27/12 16:00
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2G27004	07/27/12 16:00

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_057
Project: Kirtland AFB 2011
Calibration: 2208003
Sequence: 2G20807

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G20807-ICV1	Calcium	50000	50720	101	ug/L	+/- 10.00%
	Lead	1000	969.3	96.9	ug/L	+/- 10.00%
	Magnesium	50000	48910	97.8	ug/L	+/- 10.00%
	Potassium	10000	9603	96.0	ug/L	+/- 10.00%
	Sodium	50000	50710	101	ug/L	+/- 10.00%
2G20807-CCV1	Calcium	50000	51030	102	ug/L	+/- 10.00%
	Lead	1000	970.3	97.0	ug/L	+/- 10.00%
	Magnesium	50000	48710	97.4	ug/L	+/- 10.00%
	Potassium	10000	9559	95.6	ug/L	+/- 10.00%
	Sodium	50000	50440	101	ug/L	+/- 10.00%
2G20807-CCV4	Calcium	50000	50310	101	ug/L	+/- 10.00%
	Lead	1000	960.6	96.1	ug/L	+/- 10.00%
	Magnesium	50000	48430	96.9	ug/L	+/- 10.00%
	Potassium	10000	9337	93.4	ug/L	+/- 10.00%
	Sodium	50000	49800	99.6	ug/L	+/- 10.00%
2G20807-CCV5	Calcium	50000	50940	102	ug/L	+/- 10.00%
	Lead	1000	966.6	96.7	ug/L	+/- 10.00%
	Magnesium	50000	49340	98.7	ug/L	+/- 10.00%
	Potassium	10000	9303	93.0	ug/L	+/- 10.00%
	Sodium	50000	50040	100	ug/L	+/- 10.00%
2G20807-CCV6	Calcium	50000	51030	102	ug/L	+/- 10.00%
	Lead	1000	977.7	97.8	ug/L	+/- 10.00%
	Magnesium	50000	48980	98.0	ug/L	+/- 10.00%
	Potassium	10000	9526	95.3	ug/L	+/- 10.00%
	Sodium	50000	50530	101	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_057
Project: Kirtland AFB 2011
Calibration: 2212001
Sequence: 2G20911

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G20911-ICV1	Iron (dissolved)	10000	10530	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1060	106	ug/L	+/- 10.00%
2G20911-CCV1	Iron (dissolved)	10000	10370	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1052	105	ug/L	+/- 10.00%
2G20911-CCV4	Iron (dissolved)	10000	10820	108	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1068	107	ug/L	+/- 10.00%
2G20911-CCV5	Iron (dissolved)	10000	10670	107	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1072	107	ug/L	+/- 10.00%
2G20911-CCV6	**Iron (dissolved)**	**10000**	**11240**	**112**	**ug/L**	+/- 10.00%
	Manganese (dissolved)	1000	1101	110	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2208003

Sequence: 2G20807

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G20807-CRL1	Calcium	2000	2165	108	ug/L	80 - 120
	Lead	3.000	3.005	100	ug/L	80 - 120
	Magnesium	3000	3030	101	ug/L	80 - 120
	Potassium	3000	2915	97.2	ug/L	80 - 120
	Sodium	3000	3073	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2212001

Sequence: 2G20911

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G20911-CRL1	Iron (dissolved)	60.00	63.90	106	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.465	108	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2G20807
Calibration: 2208003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G20807-ICB1	Calcium	0.000	1000	5000	ug/L	U	SW6010B
	Lead	0.6898	1.50	3.00	ug/L	U	SW6010B
	Magnesium	14.11	1000	5000	ug/L	U	SW6010B
	Potassium	25.59	1000	5000	ug/L	U	SW6010B
	Sodium	13.19	1000	5000	ug/L	U	SW6010B
2G20807-CCB1	Calcium	1.73	1000	5000	ug/L	U	SW6010B
	Lead	0.108	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.15	1000	5000	ug/L	U	SW6010B
	Potassium	31.9	1000	5000	ug/L	U	SW6010B
	Sodium	15.6	1000	5000	ug/L	U	SW6010B
2G20807-CCB4	Calcium	2.70	1000	5000	ug/L	U	SW6010B
	Lead	-0.384	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.2	1000	5000	ug/L	U	SW6010B
	Potassium	31.8	1000	5000	ug/L	U	SW6010B
	Sodium	12.3	1000	5000	ug/L	U	SW6010B
2G23010-BLK1	Calcium	721	1000	5000	ug/L	U	SW6010B
	Lead	-0.397	1.50	3.00	ug/L	U	SW6010B
	Magnesium	75.3	1000	5000	ug/L	U	SW6010B
	Potassium	35.1	1000	5000	ug/L	U	SW6010B
	Sodium	63.8	1000	5000	ug/L	U	SW6010B
2G20807-CCB5	Calcium	4.69	1000	5000	ug/L	U	SW6010B
	Lead	0.358	1.50	3.00	ug/L	U	SW6010B
	Magnesium	10.9	1000	5000	ug/L	U	SW6010B
	Potassium	35.0	1000	5000	ug/L	U	SW6010B
	Sodium	9.78	1000	5000	ug/L	U	SW6010B
2G20807-CCB6	Calcium	7.64	1000	5000	ug/L	U	SW6010B
	Lead	0.228	1.50	3.00	ug/L	U	SW6010B
	Magnesium	10.0	1000	5000	ug/L	U	SW6010B
	Potassium	34.5	1000	5000	ug/L	U	SW6010B
	Sodium	20.0	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2G20911
Calibration: 2212001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G20911-ICB1	Iron (dissolved)	1.595	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.01950	3.00	15.0	ug/L	U	SW6010B
2G20911-CCB1	Iron (dissolved)	0.662	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0152	3.00	15.0	ug/L	U	SW6010B
2G20911-CCB4	Iron (dissolved)	-0.960	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.287	3.00	15.0	ug/L	U	SW6010B
2G27004-BLK1	Iron (dissolved)	-2.19	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0521	3.00	15.0	ug/L	U	SW6010B
2G20911-CCB5	Iron (dissolved)	-0.833	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.172	3.00	15.0	ug/L	U	SW6010B
2G20911-CCB6	Iron (dissolved)	2.55	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.313	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2208003
Sequence: 2G20807

Lab Sample ID	Analyte	True	Found	%R	Units
2G20807-IFA1	Calcium	500000	478,710.00	95.7	ug/L
	Lead		4.07		ug/L
	Magnesium	500000	480,100.00	96.0	ug/L
	Potassium		-128.63		ug/L
	Sodium		104.43		ug/L
2G20807-IFB1	Calcium	500000	482,520.00	96.5	ug/L
	Lead	50.00	52.95	106	ug/L
	Magnesium	500000	487,450.00	97.5	ug/L
	Potassium		-136.32		ug/L
	Sodium		79.66		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2212001

Sequence: 2G20911

Lab Sample ID	Analyte	True	Found	%R	Units
2G20911-IFA1	Iron (dissolved)	200000	205,400.00	103	ug/L
	Manganese (dissolved)		-4.65		ug/L
2G20911-IFB1	Iron (dissolved)	200000	207,510.00	104	ug/L
	Manganese (dissolved)	500.0	494.01	98.8	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23010

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	97840	101600	75.5	4x	80 - 120
Lead	250.0	ND	243.9	97.6		80 - 120
Magnesium	5000	14470	19160	93.9		80 - 120
Potassium	5000	3542	8332	95.8		80 - 120
Sodium	5000	42980	48020	101		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	105800	159	4.01	4x	20	80 - 120
Lead	250.0	247.1	98.8	1.30		20	80 - 120
Magnesium	5000	20020	111	4.37		20	80 - 120
Potassium	5000	8479	98.8	1.76		20	80 - 120
Sodium	5000	49320	127	2.67	4x	20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G27004

% Solids:

Source Sample Name: **1207102-14**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	1117	112		80 - 120
Manganese (dissolved)	500.0	ND	537.6	108		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1127	113	0.909		20	80 - 120
Manganese (dissolved)	500.0	537.0	107	0.108		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0738

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2G23010
Preparation: MET_3005A

SDG: Kirtland_057
Project: Kirtland AFB 2011
Laboratory ID: 2G23010-PS1
Lab Source ID: 1207102-13
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	**101700**	**97840**	**5000**	**77.1**	**80 - 120**
Lead	247.2	ND	250.0	99.3	80 - 120
Magnesium	19460	14470	5000	99.8	80 - 120
Potassium	8341	3542	5000	96.0	80 - 120
Sodium	47690	42980	5000	94.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23010	Laboratory ID:	2G23010-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	5619	112	80 - 120
Lead	250.0	245.2	98.1	80 - 120
Magnesium	5000	4984	99.7	80 - 120
Potassium	5000	4543	90.9	80 - 120
Sodium	5000	4996	99.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G27004	Laboratory ID:	2G27004-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	1116	112	80 - 120
Manganese (dissolved)	500.0	542.0	108	80 - 120

SERIAL DILUTION

SW6010B

GW0738

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2G20807
Preparation: MET_3005A

SDG: Kirtland_057
Project: Kirtland AFB 2011
Laboratory ID: 2G23010-DUP1
Lab Source ID: 1207102-13
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	97844	101660	3.9		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	14470	15327	5.92		SW6010B	10.00
Potassium	3541.9	ND			SW6010B	10.00
Sodium	42977	43661	1.59		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0738

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2G20911
Preparation: MET_3005A

SDG: Kirtland_057
Project: Kirtland AFB 2011
Laboratory ID: 2G27004-DUP1
Lab Source ID: 1207102-14
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	ND	ND			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_057

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_057

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_057

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_057

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_057

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_057

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_057

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_057

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

Batch: 2G23010 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/23/12 08:53	50.00	50.00
GW0656	1207102-03	07/23/12 08:53	50.00	50.00
GW0657	1207102-05	07/23/12 08:53	50.00	50.00
GW0685	1207102-07	07/23/12 08:53	50.00	50.00
GW0686	1207102-09	07/23/12 08:53	50.00	50.00
GW0737	1207102-11	07/23/12 08:53	50.00	50.00
GW0738	1207102-13	07/23/12 08:53	50.00	50.00
GW0739	1207102-15	07/23/12 08:53	50.00	50.00
GW0743	1207102-17	07/23/12 08:53	50.00	50.00
GW0744	1207102-19	07/23/12 08:53	50.00	50.00
GW0745	1207102-21	07/23/12 08:53	50.00	50.00
GW0746	1207102-23	07/23/12 08:53	50.00	50.00
GW0629	1207107-01	07/23/12 08:53	50.00	50.00
GW0643	1207107-03	07/23/12 08:53	50.00	50.00
GW0653	1207107-05	07/23/12 08:53	50.00	50.00
GW0654	1207107-07	07/23/12 08:53	50.00	50.00
GW0730	1207107-09	07/23/12 08:53	50.00	50.00
GW0732	1207107-11	07/23/12 08:53	50.00	50.00
Blank	2G23010-BLK1	07/23/12 08:53	50.00	50.00
LCS	2G23010-BS1	07/23/12 08:53	50.00	50.00
GW0738	2G23010-DUP1	07/23/12 08:53	50.00	50.00
GW0738	2G23010-MS1	07/23/12 08:53	50.00	50.00
GW0738	2G23010-MSD1	07/23/12 08:53	50.00	50.00
GW0738	2G23010-PS1	07/23/12 08:53	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G27004 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-02	07/27/12 08:46	50.00	50.00
GW0656	1207102-04	07/27/12 08:46	50.00	50.00
GW0657	1207102-06	07/27/12 08:46	50.00	50.00
GW0685	1207102-08	07/27/12 08:46	50.00	50.00
GW0686	1207102-10	07/27/12 08:46	50.00	50.00
GW0737	1207102-12	07/27/12 08:46	50.00	50.00
GW0738	1207102-14	07/27/12 08:46	50.00	50.00
GW0739	1207102-16	07/27/12 08:46	50.00	50.00
GW0743	1207102-18	07/27/12 08:46	50.00	50.00
GW0744	1207102-20	07/27/12 08:46	50.00	50.00
GW0745	1207102-22	07/27/12 08:46	50.00	50.00
GW0746	1207102-24	07/27/12 08:46	50.00	50.00
GW0629	1207107-02	07/27/12 08:46	50.00	50.00
GW0643	1207107-04	07/27/12 08:46	50.00	50.00
GW0653	1207107-06	07/27/12 08:46	50.00	50.00
GW0654	1207107-08	07/27/12 08:46	50.00	50.00
GW0730	1207107-10	07/27/12 08:46	50.00	50.00
GW0732	1207107-12	07/27/12 08:46	50.00	50.00
Blank	2G27004-BLK1	07/27/12 08:46	50.00	50.00
LCS	2G27004-BS1	07/27/12 08:46	50.00	50.00
GW0738	2G27004-DUP1	07/27/12 08:46	50.00	50.00
GW0738	2G27004-MS1	07/27/12 08:46	50.00	50.00
GW0738	2G27004-MSD1	07/27/12 08:46	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20807	Instrument:	ME-ICP
Calibration:	2208003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20807-CAL1	072412A-001	07/24/12 09:46
Cal Standard	2G20807-CAL2	072412A-002	07/24/12 09:50
Cal Standard	2G20807-CAL3	072412A-003	07/24/12 09:54
Cal Standard	2G20807-CAL5	072412A-005	07/24/12 10:03
Cal Standard	2G20807-CAL6	072412A-006	07/24/12 10:09
Cal Standard	2G20807-CAL7	072412A-007	07/24/12 10:15
Cal Standard	2G20807-CAL8	072412A-008	07/24/12 10:19
Initial Cal Check	2G20807-ICV1	072412B-001	07/24/12 10:50
Initial Cal Blank	2G20807-ICB1	072412B-002	07/24/12 10:57
Instrument RL Check	2G20807-CRL1	072412B-003	07/24/12 11:02
Interference Check A	2G20807-IFA1	072412B-005	07/24/12 11:11
Interference Check B	2G20807-IFB1	072412B-006	07/24/12 11:16
Calibration Check	2G20807-CCV1	072412B-008	07/24/12 11:26
Calibration Blank	2G20807-CCB1	072412B-009	07/24/12 11:34
Calibration Check	2G20807-CCV4	072412B-051	07/24/12 14:57
Calibration Blank	2G20807-CCB4	072412B-052	07/24/12 15:04
Blank	2G23010-BLK1	072412B-053	07/24/12 15:09
LCS	2G23010-BS1	072412B-054	07/24/12 15:13
GW0655	1207102-01	072412C-001	07/24/12 15:21
GW0656	1207102-03	072412C-002	07/24/12 15:26
GW0657	1207102-05	072412C-003	07/24/12 15:30
GW0685	1207102-07	072412C-004	07/24/12 15:34
GW0686	1207102-09	072412C-005	07/24/12 15:39
GW0737	1207102-11	072412C-006	07/24/12 15:43
GW0738	1207102-13	072412C-007	07/24/12 15:48
GW0738	2G23010-MS1	072412C-008	07/24/12 15:53
GW0738	2G23010-MSD1	072412C-009	07/24/12 15:57
GW0738	2G23010-PS1	072412C-010	07/24/12 16:01
GW0738	2G23010-DUP1	072412C-011	07/24/12 16:07
GW0739	1207102-15	072412C-012	07/24/12 16:11
GW0743	1207102-17	072412C-013	07/24/12 16:16
GW0744	1207102-19	072412C-014	07/24/12 16:20

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20807	Instrument:	ME-ICP
Calibration:	2208003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20807-CCV5	072412C-015	07/24/12 16:26
Calibration Blank	2G20807-CCB5	072412C-016	07/24/12 16:33
GW0745	1207102-21	072412C-017	07/24/12 16:38
GW0746	1207102-23	072412C-018	07/24/12 16:42
GW0629	1207107-01	072412C-019	07/24/12 16:46
GW0643	1207107-03	072412C-020	07/24/12 16:51
GW0653	1207107-05	072412C-021	07/24/12 16:55
GW0654	1207107-07	072412C-022	07/24/12 17:00
GW0730	1207107-09	072412C-023	07/24/12 17:04
GW0732	1207107-11	072412C-024	07/24/12 17:09
Calibration Check	2G20807-CCV6	072412C-026	07/24/12 17:19
Calibration Blank	2G20807-CCB6	072412C-027	07/24/12 17:26

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20911	Instrument:	ME-ICP
Calibration:	2212001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G20911-CAL1	072712A-001	07/27/12 09:12
Cal Standard	2G20911-CAL2	072712A-002	07/27/12 09:16
Cal Standard	2G20911-CAL3	072712A-003	07/27/12 09:20
Cal Standard	2G20911-CAL4	072712A-004	07/27/12 09:24
Cal Standard	2G20911-CAL5	072712A-005	07/27/12 09:29
Cal Standard	2G20911-CAL6	072712A-006	07/27/12 09:34
Initial Cal Check	2G20911-ICV1	072712B-001	07/27/12 10:12
Initial Cal Blank	2G20911-ICB1	072712B-002	07/27/12 10:20
Instrument RL Check	2G20911-CRL1	072712B-003	07/27/12 10:24
Interference Check A	2G20911-IFA1	072712B-006	07/27/12 10:39
Interference Check B	2G20911-IFB1	072712B-007	07/27/12 10:44
Calibration Check	2G20911-CCV1	072712B-009	07/27/12 10:55
Calibration Blank	2G20911-CCB1	072712B-010	07/27/12 11:03
Calibration Check	2G20911-CCV4	072712B-043	07/27/12 13:53
Calibration Blank	2G20911-CCB4	072712B-044	07/27/12 14:00
Blank	2G27004-BLK1	072712C-001	07/27/12 14:07
LCS	2G27004-BS1	072712C-002	07/27/12 14:12
GW0655	1207102-02	072712C-003	07/27/12 14:18
GW0656	1207102-04	072712C-004	07/27/12 14:22
GW0657	1207102-06	072712C-005	07/27/12 14:27
GW0685	1207102-08	072712C-006	07/27/12 14:31
GW0686	1207102-10	072712C-007	07/27/12 14:36
GW0737	1207102-12	072712C-008	07/27/12 14:40
GW0738	1207102-14	072712C-009	07/27/12 14:45
GW0738	2G27004-MS1	072712C-010	07/27/12 14:50
GW0738	2G27004-MSD1	072712C-011	07/27/12 14:54
GW0738	2G27004-DUP1	072712C-012	07/27/12 14:58
GW0739	1207102-16	072712C-013	07/27/12 15:03
GW0743	1207102-18	072712C-014	07/27/12 15:07
GW0744	1207102-20	072712C-015	07/27/12 15:12
Calibration Check	2G20911-CCV5	072712C-016	07/27/12 15:17
Calibration Blank	2G20911-CCB5	072712C-017	07/27/12 15:25

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20911	Instrument:	ME-ICP
Calibration:	2212001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0745	1207102-22	072712C-018	07/27/12 15:29
GW0746	1207102-24	072712C-019	07/27/12 15:34
GW0629	1207107-02	072712C-020	07/27/12 15:38
GW0643	1207107-04	072712C-021	07/27/12 15:42
GW0653	1207107-06	072712C-022	07/27/12 15:47
GW0654	1207107-08	072712C-023	07/27/12 15:51
GW0730	1207107-10	072712C-024	07/27/12 15:56
GW0732	1207107-12	072712C-025	07/27/12 16:00
Calibration Check	2G20911-CCV6	072712C-026	07/27/12 16:06
Calibration Blank	2G20911-CCB6	072712C-027	07/27/12 16:13

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2208003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/24/12 9:46 7/24/12 10:19

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.3436E-05	10000	2.3535E-05			500000	2.3576E-05		
Antimony	0	0	100	0.0005202	1000	5.7966E-04					10000	5.7302E-04
Arsenic	0	0	100	0.0003057	1000	3.2948E-04					10000	3.2196E-04
Barium	0	0	50	0.0104418	1000	0.0099483	5000	0.0102366				
Beryllium	0	0	100	0.0024088	1000	0.0024233					10000	0.0023523
Boron	0	0	50	0.000018	1000	1.851E-05					5000	1.824E-05
Cadmium	0	0	100	0.017475	1000	0.01752					10000	0.016633
Calcium	0	0	1100	6.872727E-05	50000	6.557799E-05					10000	
Chromium	0	0	100	0.0000469	1000	4.562E-05					10000	4.5891E-05
Cobalt	0	0	100	0.0050435	1000	0.0049688					10000	0.0050518
Copper	0	0	100	0.0000842	1000	7.862E-05					10000	7.8595E-05
Iron	0	0	5100	1.682549E-05	10000	1.6025E-05			500000	1.58924E-05	10000	
Lead	0	0	100	0.0012527	1000	0.0012174					10000	0.0012549
Magnesium	0	0	5100		50000	1.9874E-06			500000	2.0308E-06	10000	
Manganese	0	0	100	0.0003162	1000	3.0612E-04	10000	0.0003019			10000	
Molybdenum	0	0	100	0.0034964	1000	0.0036087					10000	0.0035749
Nickel	0	0	100	0.0030769	1000	0.0030259					10000	0.0030294
Potassium	0	0	1000	1.281E-05	10000	1.461E-05						
Selenium	0	0	100	0.0003824	1000	3.8209E-04					10000	3.7067E-04
Silver	0	0	20	0.000058	500	5.374E-05	2000	5.594E-05				
Sodium	0	0	1000		50000	0.0000603						
Strontium	0	0	100	0.00181	1000	0.001817					10000	0.001822
Thallium	0	0	100	0.0007424	1000	0.0007304					10000	7.3322E-04
Tin	0	0	50	0.0012314	1000	0.0012501					5000	1.25528E-03
Titanium	0	0	100	0.0002184	1000	2.2084E-04					10000	2.2276E-04
Vanadium	0	0	100	0.0000459	1000	4.482E-05					10000	4.484E-05
Zinc	0	0	100	0.0067634	1000	0.006781					10000	0.0066988

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2208003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/24/12 9:46 7/24/12 10:19

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.4796E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.031E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5353E-05										
Selenium												
Silver												
Sodium	100000	5.9795E-05	500000	5.8678E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2208003	Instrument:	ME-ICP	
Matrix:	Water	Calibration Dates:	7/24/12 9:46	7/24/12 10:19

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.763675E-05	66.6675	5.207457	190.7094	1		0.998	
Antimony	4.1822E-04	66.96945	1.51075	164.4557	0.9999963		0.998	
Arsenic	2.39285E-04	66.79555	3.589432	186.6554	0.9999927		0.998	
Barium	7.656675E-03	66.71907	2.521425	185.9328	0.999964		0.998	
Beryllium	0.0017961	66.68847	11.31397	194.4388	0.9999914		0.998	
Boron	1.36875E-05	66.68404	1.245958	144.2315	0.9999908		0.998	
Cadmium	0.012907	66.74155	2.734995	183.1687	0.9999737		0.998	
Calcium	4.977532E-05	66.754	2.733982	181.7469	0.9999987		0.998	
Chromium	3.460275E-05	66.68567	4.1314	183.081	0.9999995		0.998	
Cobalt	3.766025E-03	66.67404	2.655385	179.447	0.9999972		0.998	
Copper	6.035375E-05	66.80962	0.979375	88.73725	0.9999996		0.998	
Iron	1.218572E-05	66.75243	15.63905	195.4364	0.9999997		0.998	
Lead	9.3125E-04	66.69219	34.19389	198.7804	0.9999909		0.998	
Magnesium	1.5123E-06	66.68046	10.92549	195.7903	0.9999952		0.998	
Manganese	2.31055E-04	66.71721	11.01265	191.097	0.9999984		0.998	
Molybdenum	0.00267	66.68994	1.834467	180.4001	0.9999988		0.998	
Nickel	2.28305E-03	66.67445	49.95575	199.3955	0.9999999		0.998	
Potassium	1.069325E-05	67.41017	1.985768	135.665	0.9999877		0.998	
Selenium	2.8379E-04	66.6944	4.209905	192.1426	0.9999924		0.998	
Silver	4.192E-05	66.79567	1.78267	127.8732	0.9998837		0.998	
Sodium	4.469325E-05	66.68391	3.099042	169.0752	0.9999853		0.998	
Strontium	1.36225E-03	66.66765	0.73535	69.80843	0.9999999		0.998	
Thallium	5.51505E-04	66.67314	2.057695	172.6585	0.9999998		0.998	
Tin	9.34195E-04	66.67571	11.38134	194.0274	0.9999994		0.998	
Titanium	0.0001655	66.67539	56.36144	197.5935	0.9999994		0.998	
Vanadium	3.389E-05	66.68328	3.56549	177.0088	0.9999999		0.998	
Zinc	0.0050608	66.67032	15.61675	197.3961	0.9999986		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2212001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/27/12 9:12 7/27/12 9:44

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	2.159E-05	10000	2.1525E-05			500000	2.172E-05		
Antimony	0	0	100	0.0005485	1000	6.1219E-04					10000	6.0025E-04
Arsenic	0	0	100	0.0003106	1000	3.3529E-04					10000	3.2662E-04
Barium	0	0	50	0.0104948	1000	0.010058	5000	0.0102364				
Beryllium	0	0	100	0.0023162	1000	0.0022749					10000	0.002254
Boron	0	0	50	0.0000168	1000	0.0000174					5000	1.7112E-05
Cadmium	0	0	100	0.016629	1000	0.016564					10000	0.015648
Calcium	0	0	1100	6.425454E-05	50000	6.0548E-05					10000	
Chromium	0	0	100	0.0000457	1000	4.343E-05					10000	4.3635E-05
Cobalt	0	0	100	0.0050051	1000	0.0048875					10000	0.0050368
Copper	0	0	100	0.000083	1000	0.0000764					10000	7.5817E-05
Iron	0	0	5100	1.949608E-05	10000	1.828E-05			500000	1.73216E-05	10000	
Lead	0	0	100	0.0012131	1000	0.0011668					10000	0.0012174
Magnesium	0	0	5100		50000	1.7908E-06			500000	1.8187E-06	10000	
Manganese	0	0	100	0.0002954	1000	2.8038E-04	10000	2.7044E-04			10000	
Molybdenum	0	0	100	0.0035184	1000	0.0036285					10000	0.003607
Nickel	0	0	100	0.0030715	1000	0.0030257					10000	0.0030247
Potassium	0	0	1000	1.429E-05	10000	1.5326E-05						
Selenium	0	0	100	0.0003821	1000	3.8752E-04					10000	3.8327E-04
Silver	0	0	20	0.0000595	500	5.606E-05	2000	5.6485E-05				
Sodium	0	0	1000		50000	5.754E-05						
Strontium	0	0	100	0.001845	1000	0.001796					10000	0.001801
Thallium	0	0	100	0.0007451	1000	7.3008E-04					10000	7.3286E-04
Tin	0	0	50	0.0012242	1000	0.001212					5000	1.23356E-03
Titanium	0	0	100	0.0002137	1000	2.1039E-04					10000	2.1434E-04
Vanadium	0	0	100	0.0000455	1000	4.374E-05					10000	4.3506E-05
Zinc	0	0	100	0.0062047	1000	0.0062201					10000	0.0061213

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2212001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/27/12 9:12 7/27/12 9:44

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.858E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.787E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5429E-05										
Selenium												
Silver												
Sodium	100000	5.6341E-05	500000	5.6002E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_057	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2212001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	7/27/12 9:12	7/27/12 9:44

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.620875E-05	66.66854	28.5861	197.1703	1		0.998	
Antimony	4.40235E-04	66.96172	1.92058	175.006	0.9999926		0.998	
Arsenic	2.431275E-04	66.79925	2.805477	163.8169	0.9999908		0.998	
Barium	0.0076973	66.70735	1.631607	172.5708	0.9999857		0.998	
Beryllium	1.711275E-03	66.68377	14.30556	192.5266	0.9999993		0.998	
Boron	1.2828E-05	66.69402	2.952532	130.3166	0.9999879		0.998	
Cadmium	1.221025E-02	66.76751	1.368408	153.1922	0.9999686		0.998	
Calcium	4.584564E-05	66.86386	1.256865	116.1982	0.9999894		0.998	
Chromium	3.319125E-05	66.73818	8.957287	180.8111	0.9999994		0.998	
Cobalt	3.73235E-03	66.68887	3.127463	183.512	0.9999912		0.998	
Copper	5.880425E-05	66.89641	1.32021	48.61605	0.9999999		0.998	
Iron	1.377442E-05	66.9789	22.52208	193.8929	0.9999987		0.998	
Lead	8.99325E-04	66.71531	20.67255	196.8722	0.9999827		0.998	
Magnesium	1.349125E-06	66.6749	1841.488	199.9366	0.9999885		0.998	
Manganese	2.11555E-04	66.84284	5.461055	169.6548	0.9999887		0.998	
Molybdenum	2.688475E-03	66.69022	3.254535	180.5751	0.9999994		0.998	
Nickel	2.280475E-03	66.67354	6.78928	192.7984	1		0.998	
Potassium	1.126125E-05	66.82296	7.212653	170.335	1		0.998	
Selenium	2.882225E-04	66.67156	4.397187	175.1631	0.9999989		0.998	
Silver	4.301125E-05	66.76167	9.81774	179.2064	0.9999946		0.998	
Sodium	4.247075E-05	66.68476	6.43952	179.0645	0.9999936		0.998	
Strontium	0.0013605	66.6863	5.49095	167.886	0.9999998		0.998	
Thallium	5.5201E-04	66.67714	6.591015	193.2191	0.9999998		0.998	
Tin	9.1744E-04	66.67361	9.82567	195.264	0.9999871		0.998	
Titanium	1.596075E-04	66.67549	24.38788	194.8749	0.9999967		0.998	
Vanadium	3.31865E-05	66.72058	7.090535	177.1552	0.9999998		0.998	
Zinc	4.636525E-03	66.67324	6.816845	192.1386	0.9999976		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0655

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-01
Sampled:	07/18/12 13:32	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:27
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:07
71-52-3	Alkalinity, Bicarbonate (as CACO3)	76.4	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:08
16887-00-6	Chloride	92.2	0.170	0.330	0.500	1		E300.0	2G24015	07/25/12 08:55
NA	Nitrate/Nitrite as N	2.66	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 10:36
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:08
14808-79-8	Sulfate as SO4	104	0.330	1.00	2.50	1	M	E300.0	2G24015	07/25/12 08:55

ANALYSIS DATA SHEET

GW0656

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-03
Sampled:	07/18/12 11:06	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:28
18496-25-8	Sulfide	1.04	0.741	1.85	3.70	1	J	SM4500S2CF	2G23009	07/23/12 10:08
71-52-3	Alkalinity, Bicarbonate (as CACO3)	88.6	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:12
16887-00-6	Chloride	48.7	0.170	0.330	0.500	1		E300.0	2G24015	07/25/12 09:12
NA	Nitrate/Nitrite as N	1.63	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 10:37
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:12
14808-79-8	Sulfate as SO4	63.4	0.330	1.00	2.50	1	M	E300.0	2G24015	07/25/12 09:12

ANALYSIS DATA SHEET

GW0657

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-05
Sampled:	07/18/12 11:06	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:29
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:09
71-52-3	Alkalinity, Bicarbonate (as CACO3)	87.8	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:19
16887-00-6	Chloride	48.7	0.170	0.330	0.500	1		E300.0	2G24015	07/25/12 09:30
NA	Nitrate/Nitrite as N	1.69	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 10:39
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:19
14808-79-8	Sulfate as SO4	63.5	0.330	1.00	2.50	1	M	E300.0	2G24015	07/25/12 09:30

ANALYSIS DATA SHEET

GW0685

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-07
Sampled:	07/16/12 14:45	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:30
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:10
71-52-3	Alkalinity, Bicarbonate (as CACO3)	117	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:25
16887-00-6	Chloride	12.9	0.170	0.330	0.500	1		E300.0	2G24015	07/25/12 09:47
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:40
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:25
14808-79-8	Sulfate as SO4	38.4	0.330	1.00	2.50	1	M	E300.0	2G24015	07/25/12 09:47

ANALYSIS DATA SHEET

GW0686

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-09
Sampled:	07/16/12 12:44	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:31
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:11
71-52-3	Alkalinity, Bicarbonate (as CACO3)	103	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:34
16887-00-6	Chloride	9.72	0.170	0.330	0.500	1		E300.0	2G24015	07/25/12 10:04
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:42
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:34
14808-79-8	Sulfate as SO4	34.3	0.330	1.00	2.50	1	M	E300.0	2G24015	07/25/12 10:04

ANALYSIS DATA SHEET

GW0737

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-11
Sampled:	07/18/12 14:41	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:32
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:12
71-52-3	Alkalinity, Bicarbonate (as CACO3)	83.7	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:40
16887-00-6	Chloride	101	0.170	0.330	2.50	1	M	E300.0	2G25016	07/25/12 20:59
NA	Nitrate/Nitrite as N	3.84	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 10:43
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:40
14808-79-8	Sulfate as SO4	162	0.660	2.00	5.00	2	M D	E300.0	2G27002	07/27/12 19:33

ANALYSIS DATA SHEET

GW0738

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 07/18/12 12:10
% Solids: 0.00

SDG: Kirtland_057
Project: Kirtland AFB 2011
Laboratory ID: 1207102-13
Received: 07/19/12 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:33
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:13
71-52-3	Alkalinity, Bicarbonate (as CACO3)	78.1	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:46
16887-00-6	Chloride	100	0.170	0.330	0.500	1		E300.0	2G24015	07/25/12 06:36
NA	Nitrate/Nitrite as N	3.71	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 10:45
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:46
14808-79-8	Sulfate as SO4	167	0.660	2.00	5.00	2	M D	E300.0	2G25016	07/26/12 01:03

ANALYSIS DATA SHEET

GW0739

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-15
Sampled:	07/18/12 10:11	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:36
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:16
71-52-3	Alkalinity, Bicarbonate (as CACO3)	95.4	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:50
16887-00-6	Chloride	12.1	0.170	0.330	2.50	1	M	E300.0	2G25016	07/25/12 21:17
NA	Nitrate/Nitrite as N	0.606	0.250	0.750	1.50	1	J	E353.2	2G31008	07/31/12 10:49
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:50
14808-79-8	Sulfate as SO4	34.1	0.330	1.00	2.50	1	M	E300.0	2G25016	07/25/12 21:17

ANALYSIS DATA SHEET

GW0743

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-17
Sampled:	07/17/12 14:37	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:37
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2G23009	07/23/12 10:17
71-52-3	Alkalinity, Bicarbonate (as CACO3)	99.9	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 11:55
16887-00-6	Chloride	14.9	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 00:45
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:50
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 11:55
14808-79-8	Sulfate as SO4	44.0	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 00:45

ANALYSIS DATA SHEET

GW0744

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-19
Sampled:	07/17/12 12:14	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:38
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:18
71-52-3	Alkalinity, Bicarbonate (as CACO3)	98.3	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:03
16887-00-6	Chloride	17.0	0.170	0.330	2.50	1	M	E300.0	2G25016	07/25/12 23:18
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:55
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:03
14808-79-8	Sulfate as SO4	45.8	0.330	1.00	2.50	1	M	E300.0	2G25016	07/25/12 23:18

ANALYSIS DATA SHEET

GW0745

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-21
Sampled:	07/17/12 12:14	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:41
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:19
71-52-3	Alkalinity, Bicarbonate (as CACO3)	104	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:08
16887-00-6	Chloride	16.7	0.170	0.330	2.50	1	M	E300.0	2G25016	07/25/12 23:36
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:56
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:08
14808-79-8	Sulfate as SO4	45.8	0.330	1.00	2.50	1	M	E300.0	2G25016	07/25/12 23:36

ANALYSIS DATA SHEET

GW0746

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207102-23
Sampled:	07/17/12 10:03	Received:	07/19/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2H06002	08/07/12 08:42
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:20
71-52-3	Alkalinity, Bicarbonate (as CACO3)	99.5	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:12
16887-00-6	Chloride	9.15	0.170	0.330	2.50	1	M	E300.0	2G25016	07/25/12 23:53
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:58
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:12
14808-79-8	Sulfate as SO4	34.8	0.330	1.00	2.50	1	M	E300.0	2G25016	07/25/12 23:53

ANALYSIS DATA SHEET

GW0629

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-01
Sampled:	07/19/12 16:26	Received:	07/20/12 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	2H06002	08/07/12 08:42
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:21
71-52-3	Alkalinity, Bicarbonate (as CACO3)	149	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:20
16887-00-6	Chloride	9.54	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 00:11
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 10:59
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:20
14808-79-8	Sulfate as SO4	29.3	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 00:11

ANALYSIS DATA SHEET

GW0643

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-03
Sampled:	07/19/12 14:45	Received:	07/20/12 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	2H06002	08/07/12 08:43
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:22
71-52-3	Alkalinity, Bicarbonate (as CACO3)	121	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:25
16887-00-6	Chloride	8.41	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 00:28
NA	Nitrate/Nitrite as N	34.9	1.25	3.75	7.50	5	D	E353.2	2G31008	07/31/12 11:11
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:25
14808-79-8	Sulfate as SO4	29.6	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 00:28

ANALYSIS DATA SHEET

GW0653

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-05
Sampled:	07/19/12 16:00	Received:	07/20/12 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	2H06002	08/07/12 08:44
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:23
71-52-3	Alkalinity, Bicarbonate (as CACO3)	77.7	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:31
16887-00-6	Chloride	96.1	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 02:47
NA	Nitrate/Nitrite as N	4.93	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 11:05
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:31
14808-79-8	Sulfate as SO4	84.7	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 02:47

ANALYSIS DATA SHEET

GW0654

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-07
Sampled:	07/18/12 15:33	Received:	07/20/12 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	2H06002	08/07/12 08:45
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:24
71-52-3	Alkalinity, Bicarbonate (as CACO3)	75.6	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:38
16887-00-6	Chloride	98.8	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 03:05
NA	Nitrate/Nitrite as N	2.77	0.250	0.750	1.50	1		E353.2	2G31008	07/31/12 11:06
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:38
14808-79-8	Sulfate as SO4	103	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 03:05

ANALYSIS DATA SHEET

GW0730

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-09
Sampled:	07/19/12 11:37	Received:	07/20/12 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	2H06002	08/07/12 08:46
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2G23009	07/23/12 10:25
71-52-3	Alkalinity, Bicarbonate (as CACO3)	99.1	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:41
16887-00-6	Chloride	14.2	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 03:22
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 11:08
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:41
14808-79-8	Sulfate as SO4	36.8	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 03:22

ANALYSIS DATA SHEET

GW0732

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1207107-11
Sampled:	07/19/12 10:54	Received:	07/20/12 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	2H06002	08/07/12 08:47
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2G23009	07/23/12 10:26
71-52-3	Alkalinity, Bicarbonate (as CACO3)	98.3	1.00	1.00	1.00	1		SM2320B	2G30004	07/30/12 12:47
16887-00-6	Chloride	7.48	0.170	0.330	2.50	1	M	E300.0	2G25016	07/26/12 03:40
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2G31008	07/31/12 11:09
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2G30004	07/30/12 12:47
14808-79-8	Sulfate as SO4	29.2	0.330	1.00	2.50	1	M	E300.0	2G25016	07/26/12 03:40

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_057
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2E13609

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2E13609-ICV1	Chloride	4.800	4.613	96.1	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.62	98.4	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_057
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2G20710

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G20710-CCV1	Chloride	25.00	25.98	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.75	107	mg/L	+/- 10.00%
2G20710-CCV2	Chloride	25.00	25.89	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.57	106	mg/L	+/- 10.00%
2G20710-CCV4	Chloride	25.00	26.43	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.99	108	mg/L	+/- 10.00%
2G20710-CCV5	Chloride	25.00	26.57	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.14	109	mg/L	+/- 10.00%
2G20710-CCV6	Chloride	25.00	26.80	107	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.16	109	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_057
Project: Kirtland AFB 2011
Calibration: 2213001
Sequence: 2G21303

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2G21303-ICV1	Nitrate/Nitrite as N	1.200	1.229	102	mg/L	+/- 10.00%
2G21303-CCV1	Nitrate/Nitrite as N	1.200	1.247	104	mg/L	+/- 10.00%
2G21303-CCV2	Nitrate/Nitrite as N	1.200	1.241	103	mg/L	+/- 10.00%
2G21303-CCV3	Nitrate/Nitrite as N	1.200	1.263	105	mg/L	+/- 10.00%
2G21303-CCV4	Nitrate/Nitrite as N	1.200	1.244	104	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_057
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2H21506

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H21506-CCV1	Chloride	25.00	25.96	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.76	107	mg/L	+/- 10.00%
2H21506-CCV2	Chloride	25.00	25.65	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.34	105	mg/L	+/- 10.00%
2H21506-CCV3	Chloride	25.00	26.31	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.48	106	mg/L	+/- 10.00%
2H21506-CCV4	Chloride	25.00	26.61	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.99	104	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_057
Project: Kirtland AFB 2011
Calibration: 2220001
Sequence: 2H22003

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H22003-ICV1	Ammonia as N	2.000	2.117	106	mg/L	+/- 10.00%
2H22003-CCV1	Ammonia as N	2.000	2.162	108	mg/L	+/- 10.00%
2H22003-CCV2	Ammonia as N	2.000	2.152	108	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_057
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2H22104

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H22104-CCV1	Sulfate as SO4	25.00	25.08	100	mg/L	+/- 10.00%
2H22104-CCV2	Sulfate as SO4	25.00	24.84	99.4	mg/L	+/- 10.00%
2H22104-CCV3	Sulfate as SO4	25.00	24.54	98.2	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2G20710

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2G20710-CRL1	Chloride	0.5000	0.5880	118	mg/L	75 - 125
2G20710-CRL3	Sulfate as SO4	2.500	2.139	85.6	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2H21506

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H21506-CRL3	Chloride	2.500	2.662	106	mg/L	75 - 125
	Sulfate as SO4	2.500	2.174	87.0	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2H22104

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H22104-CRL3	Sulfate as SO4	2.500	1.910	76.4	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G23009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G23009-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G24015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G24015-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G25016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G25016-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G27002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G27002-BLK1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G30004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G30004-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_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2G31008

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G31008-BLK1	Nitrate/Nitrite as N	-0.0463	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H06002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H06002-BLK1	Ammonia as N	-0.00282	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2E13609
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2E13609-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G20710
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G20710-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
2G20710-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
2G20710-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
2G20710-CCB5	Chloride	0.0300	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2G20710-CCB6	Chloride	0.0600	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_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2G21303
Calibration: 2213001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2G21303-ICB1	Nitrate/Nitrite as N	-0.03959	0.0500	0.300	mg/L	U	E353.2
2G21303-CCB1	Nitrate/Nitrite as N	-0.0320	0.0500	0.300	mg/L	U	E353.2
2G21303-CCB2	Nitrate/Nitrite as N	-0.0398	0.0500	0.300	mg/L	U	E353.2
2G21303-CCB3	Nitrate/Nitrite as N	-0.0388	0.0500	0.300	mg/L	U	E353.2
2G21303-CCB4	Nitrate/Nitrite as N	-0.0300	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H21506
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H21506-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
2H21506-CCB2	Chloride	0.0390	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H21506-CCB3	Chloride	0.0430	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H21506-CCB4	Chloride	0.0220	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_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H22003
Calibration: 2220001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H22003-ICB1	Ammonia as N	0.003903	0.110	0.300	mg/L	U	SM4500NH3BG
2H22003-CCB1	Ammonia as N	-0.0125	0.110	0.300	mg/L	U	SM4500NH3BG
2H22003-CCB2	Ammonia as N	-0.0183	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_057
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H22104
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H22104-CCB1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H22104-CCB2	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H22104-CCB3	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G23009

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1266	ND	1332	105		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1266	1350	107	1.34		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G24015

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	100.4	127.9	99.2		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	128.9	103	0.771		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G25016

% Solids:

Source Sample Name: **1207102-13RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfate as SO4	55.56	166.8	223.6	102		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfate as SO4	55.56	223.8	103	0.100		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G30004

% Solids:

Source Sample Name: **1207102-13**

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	78.06	190.1	101		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	189.6	100	0.237		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G31008

% Solids:

Source Sample Name: **1207102-13**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	3.706	6.105	95.9		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	6.135	97.1	0.490		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0629

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2G31008

% Solids:

Source Sample Name: **1207107-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	ND	2.695	108		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	2.720	109	0.905		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0738

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H06002

% Solids:

Source Sample Name: **1207102-13**

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	5.018	100		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	5.453	109	8.31		20	75 - 125

GW0738

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2G24015
Preparation: pNone
Source Sample Name: GW0738

SDG: Kirtland_057
Project: Kirtland AFB 2011
Laboratory ID: 2G24015-DUP2
Lab Source ID: 1207102-13
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	100	100.9	0.511		E300.0

DUPLICATES

GW0738

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2G25016
Preparation: pNone
Source Sample Name: GW0738

SDG: Kirtland_057
Project: Kirtland AFB 2011
Laboratory ID: 2G25016-DUP1
Lab Source ID: 1207102-13RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Sulfate as SO4	20	167 D	166.0 D	0.500		E300.0

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G23009	Laboratory ID:	2G23009-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1266	1250	98.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G24015	Laboratory ID:	2G24015-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	5.207	108	90 - 110
Sulfate as SO4	24.00	25.32	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G25016	Laboratory ID:	2G25016-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	5.243	109	90 - 110
Sulfate as SO4	24.00	25.44	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G27002	Laboratory ID:	2G27002-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfate as SO4	24.00	24.55	102	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G30004	Laboratory ID:	2G30004-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	1029	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G31008	Laboratory ID:	2G31008-BS1
Preparation:	pNone	Initial/Final:	2 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	14.50	103	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H06002	Laboratory ID:	2H06002-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	5.017	100	80 - 120

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G23009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/23/12 07:45	270.00	200.00
GW0656	1207102-03	07/23/12 07:45	270.00	200.00
GW0657	1207102-05	07/23/12 07:45	270.00	200.00
GW0685	1207102-07	07/23/12 07:45	270.00	200.00
GW0686	1207102-09	07/23/12 07:45	270.00	200.00
GW0737	1207102-11	07/23/12 07:45	270.00	200.00
GW0738	1207102-13	07/23/12 07:45	270.00	200.00
GW0739	1207102-15	07/23/12 07:45	270.00	200.00
GW0743	1207102-17	07/23/12 07:45	295.00	200.00
GW0744	1207102-19	07/23/12 07:45	270.00	200.00
GW0745	1207102-21	07/23/12 07:45	270.00	200.00
GW0746	1207102-23	07/23/12 07:45	270.00	200.00
GW0629	1207107-01	07/23/12 07:45	270.00	200.00
GW0643	1207107-03	07/23/12 07:45	270.00	200.00
GW0653	1207107-05	07/23/12 07:45	270.00	200.00
GW0654	1207107-07	07/23/12 07:45	270.00	200.00
GW0730	1207107-09	07/23/12 07:45	270.00	200.00
GW0732	1207107-11	07/23/12 07:45	295.00	200.00
Blank	2G23009-BLK1	07/23/12 07:45	250.00	200.00
LCS	2G23009-BS1	07/23/12 07:45	3.00	250.00
GW0738	2G23009-MS1	07/23/12 07:45	3.00	270.00
GW0738	2G23009-MSD1	07/23/12 07:45	3.00	270.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G24015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/24/12 11:05	5.00	5.00
GW0656	1207102-03	07/24/12 11:05	5.00	5.00
GW0657	1207102-05	07/24/12 11:05	5.00	5.00
GW0685	1207102-07	07/24/12 11:05	5.00	5.00
GW0686	1207102-09	07/24/12 11:05	5.00	5.00
GW0738	1207102-13	07/24/12 11:05	5.00	5.00
Blank	2G24015-BLK1	07/24/12 11:05	5.00	5.00
LCS	2G24015-BS1	07/24/12 11:05	5.00	5.00
GW0738	2G24015-DUP2	07/24/12 11:05	5.00	5.00
GW0738	2G24015-MS2	07/24/12 11:05	22.50	25.00
GW0738	2G24015-MSD2	07/24/12 11:05	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G25016 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0737	1207102-11	07/25/12 16:06	5.00	5.00
GW0738	1207102-13RE1	07/25/12 16:06	5.00	5.00
GW0739	1207102-15	07/25/12 16:06	5.00	5.00
GW0743	1207102-17	07/25/12 16:06	5.00	5.00
GW0744	1207102-19	07/25/12 16:06	5.00	5.00
GW0745	1207102-21	07/25/12 16:06	5.00	5.00
GW0746	1207102-23	07/25/12 16:06	5.00	5.00
GW0629	1207107-01	07/25/12 16:06	5.00	5.00
GW0643	1207107-03	07/25/12 16:06	5.00	5.00
GW0653	1207107-05	07/25/12 16:06	5.00	5.00
GW0654	1207107-07	07/25/12 16:06	5.00	5.00
GW0730	1207107-09	07/25/12 16:06	5.00	5.00
GW0732	1207107-11	07/25/12 16:06	5.00	5.00
Blank	2G25016-BLK1	07/25/12 16:06	5.00	5.00
LCS	2G25016-BS1	07/25/12 16:06	5.00	5.00
GW0738	2G25016-DUP1	07/25/12 16:06	5.00	5.00
GW0738	2G25016-MS1	07/25/12 16:06	22.50	25.00
GW0738	2G25016-MSD1	07/25/12 16:06	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G27002 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0737	1207102-11RE1	07/25/12 16:06	5.00	5.00
Blank	2G27002-BLK1	07/27/12 08:01	5.00	5.00
LCS	2G27002-BS1	07/27/12 08:01	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G30004 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/30/12 10:00	25.00	25.00
GW0656	1207102-03	07/30/12 10:00	25.00	25.00
GW0657	1207102-05	07/30/12 10:00	25.00	25.00
GW0685	1207102-07	07/30/12 10:00	25.00	25.00
GW0686	1207102-09	07/30/12 10:00	25.00	25.00
GW0737	1207102-11	07/30/12 10:00	25.00	25.00
GW0738	1207102-13	07/30/12 10:00	25.00	25.00
GW0739	1207102-15	07/30/12 10:00	25.00	25.00
GW0743	1207102-17	07/30/12 10:00	25.00	25.00
GW0744	1207102-19	07/30/12 10:00	25.00	25.00
GW0745	1207102-21	07/30/12 10:00	25.00	25.00
GW0746	1207102-23	07/30/12 10:00	25.00	25.00
GW0629	1207107-01	07/30/12 10:00	25.00	25.00
GW0643	1207107-03	07/30/12 10:00	25.00	25.00
GW0653	1207107-05	07/30/12 10:00	25.00	25.00
GW0654	1207107-07	07/30/12 10:00	25.00	25.00
GW0730	1207107-09	07/30/12 10:00	25.00	25.00
GW0732	1207107-11	07/30/12 10:00	25.00	25.00
Blank	2G30004-BLK1	07/30/12 10:00	25.00	25.00
LCS	2G30004-BS1	07/30/12 10:00	5.00	25.00
GW0738	2G30004-MS1	07/30/12 10:00	22.50	25.00
GW0738	2G30004-MSD1	07/30/12 10:00	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2G31008 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	07/31/12 08:03	4.00	20.00
GW0656	1207102-03	07/31/12 08:03	4.00	20.00
GW0657	1207102-05	07/31/12 08:03	4.00	20.00
GW0685	1207102-07	07/31/12 08:03	4.00	20.00
GW0686	1207102-09	07/31/12 08:03	4.00	20.00
GW0737	1207102-11	07/31/12 08:03	4.00	20.00
GW0738	1207102-13	07/31/12 08:03	4.00	20.00
GW0739	1207102-15	07/31/12 08:03	4.00	20.00
GW0743	1207102-17	07/31/12 08:03	4.00	20.00
GW0744	1207102-19	07/31/12 08:03	4.00	20.00
GW0745	1207102-21	07/31/12 08:03	4.00	20.00
GW0746	1207102-23	07/31/12 08:03	4.00	20.00
GW0629	1207107-01	07/31/12 08:03	4.00	20.00
GW0643	1207107-03RE1	07/31/12 08:03	4.00	20.00
GW0653	1207107-05	07/31/12 08:03	4.00	20.00
GW0654	1207107-07	07/31/12 08:03	4.00	20.00
GW0730	1207107-09	07/31/12 08:03	4.00	20.00
GW0732	1207107-11	07/31/12 08:03	4.00	20.00
Blank	2G31008-BLK1	07/31/12 08:03	20.00	20.00
LCS	2G31008-BS1	07/31/12 08:03	2.00	20.00
GW0738	2G31008-MS1	07/31/12 08:03	4.00	20.00
GW0629	2G31008-MS3	07/31/12 08:03	4.00	20.00
GW0738	2G31008-MSD1	07/31/12 08:03	4.00	20.00
GW0629	2G31008-MSD3	07/31/12 08:03	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_057

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

Batch: 2H06002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0655	1207102-01	08/06/12 06:05	100.00	100.00
GW0656	1207102-03	08/06/12 06:05	100.00	100.00
GW0657	1207102-05	08/06/12 06:05	100.00	100.00
GW0685	1207102-07	08/06/12 06:05	100.00	100.00
GW0686	1207102-09	08/06/12 06:05	100.00	100.00
GW0737	1207102-11	08/06/12 06:05	100.00	100.00
GW0738	1207102-13	08/06/12 06:05	100.00	100.00
GW0739	1207102-15	08/06/12 06:05	100.00	100.00
GW0743	1207102-17	08/06/12 06:05	100.00	100.00
GW0744	1207102-19	08/06/12 06:05	100.00	100.00
GW0745	1207102-21	08/06/12 06:05	100.00	100.00
GW0746	1207102-23	08/06/12 06:05	100.00	100.00
GW0629	1207107-01	08/06/12 06:05	100.00	100.00
GW0643	1207107-03	08/06/12 06:05	100.00	100.00
GW0653	1207107-05	08/06/12 06:05	100.00	100.00
GW0654	1207107-07	08/06/12 06:05	100.00	100.00
GW0730	1207107-09	08/06/12 06:05	100.00	100.00
GW0732	1207107-11	08/06/12 06:05	100.00	100.00
Blank	2H06002-BLK1	08/06/12 06:05	100.00	100.00
LCS	2H06002-BS1	08/06/12 06:05	100.00	100.00
GW0738	2H06002-MS1	08/06/12 06:05	100.00	100.00
GW0738	2H06002-MSD1	08/06/12 06:05	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2G30004-BS1	073012-002	07/30/12 10:30
Blank	2G30004-BLK1	073012-003	07/30/12 10:47
GW0738	2G30004-MS1	073012-004	07/30/12 10:52
GW0738	2G30004-MSD1	073012-005	07/30/12 11:01

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_057

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2G23009-BS1	072312-001	07/23/12 10:05
Blank	2G23009-BLK1	072312-002	07/23/12 10:06
GW0738	2G23009-MS1	072312-010	07/23/12 10:14
GW0738	2G23009-MSD1	072312-011	07/23/12 10:15

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2E13609	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2E13609-CAL1	051412-010	05/14/12 18:29
Cal Standard	2E13609-CAL2	051412-011	05/14/12 18:46
Cal Standard	2E13609-CAL3	051412-012	05/14/12 19:04
Cal Standard	2E13609-CAL4	051412-013	05/14/12 19:21
Cal Standard	2E13609-CAL5	051412-014	05/14/12 19:38
Cal Standard	2E13609-CAL6	051412-015	05/14/12 19:56
Cal Standard	2E13609-CAL7	051412-016	05/14/12 20:13
Cal Standard	2E13609-CAL8	051412-017	05/14/12 20:31
Initial Cal Check	2E13609-ICV1	051412-018	05/14/12 20:48
Initial Cal Blank	2E13609-ICB1	051412-019	05/14/12 21:06

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G20710	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2G20710-CCV1	072412-003	07/24/12 15:09
Calibration Blank	2G20710-CCB1	072412-004	07/24/12 15:27
Instrument RL Check	2G20710-CRL1	072412-005	07/24/12 15:44
Instrument RL Check	2G20710-CRL3	072412-007	07/24/12 16:19
LCS	2G24015-BS1	072412-008	07/24/12 16:36
Blank	2G24015-BLK1	072412-010	07/24/12 17:11
Calibration Check	2G20710-CCV2	072412-024	07/24/12 21:18
Calibration Blank	2G20710-CCB2	072412-025	07/24/12 21:36
Calibration Check	2G20710-CCV4	072412-048	07/25/12 04:16
Calibration Blank	2G20710-CCB4	072412-049	07/25/12 04:34
GW0738	1207102-13	072412-056	07/25/12 06:36
GW0738	2G24015-MS2	072412-057	07/25/12 06:53
GW0738	2G24015-MSD2	072412-058	07/25/12 07:10
GW0738	2G24015-DUP2	072412-059	07/25/12 07:28
Calibration Check	2G20710-CCV5	072412-060	07/25/12 07:45
Calibration Blank	2G20710-CCB5	072412-061	07/25/12 08:03
GW0655	1207102-01	072412-064	07/25/12 08:55
GW0656	1207102-03	072412-065	07/25/12 09:12
GW0657	1207102-05	072412-066	07/25/12 09:30
GW0685	1207102-07	072412-067	07/25/12 09:47
GW0686	1207102-09	072412-068	07/25/12 10:04
Calibration Check	2G20710-CCV6	072412-069	07/25/12 10:22
Calibration Blank	2G20710-CCB6	072412-070	07/25/12 10:39

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21303	Instrument:	WC-Lachat
Calibration:	2213001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2G21303-CAL1	M_7-31-2012_10-14-03AM-00	07/31/12 10:16
Cal Standard	2G21303-CAL2	M_7-31-2012_10-14-03AM-00	07/31/12 10:17
Cal Standard	2G21303-CAL3	M_7-31-2012_10-14-03AM-00	07/31/12 10:19
Cal Standard	2G21303-CAL4	M_7-31-2012_10-14-03AM-00	07/31/12 10:20
Cal Standard	2G21303-CAL5	M_7-31-2012_10-14-03AM-00	07/31/12 10:21
Cal Standard	2G21303-CAL6	M_7-31-2012_10-14-03AM-00	07/31/12 10:23
Cal Standard	2G21303-CAL7	M_7-31-2012_10-14-03AM-00	07/31/12 10:24
Cal Standard	2G21303-CAL8	M_7-31-2012_10-14-03AM-00	07/31/12 10:26
Initial Cal Check	2G21303-ICV1	M_7-31-2012_10-14-03AM-00	07/31/12 10:27
Initial Cal Blank	2G21303-ICB1	M_7-31-2012_10-14-03AM-01	07/31/12 10:29
Blank	2G31008-BLK1	M_7-31-2012_10-14-03AM-01	07/31/12 10:32
LCS	2G31008-BS1	M_7-31-2012_10-14-03AM-01	07/31/12 10:33
GW0655	1207102-01	M_7-31-2012_10-14-03AM-01	07/31/12 10:36
GW0656	1207102-03	M_7-31-2012_10-14-03AM-01	07/31/12 10:37
GW0657	1207102-05	M_7-31-2012_10-14-03AM-01	07/31/12 10:39
GW0685	1207102-07	M_7-31-2012_10-14-03AM-01	07/31/12 10:40
GW0686	1207102-09	M_7-31-2012_10-14-03AM-01	07/31/12 10:42
GW0737	1207102-11	M_7-31-2012_10-14-03AM-02	07/31/12 10:43
GW0738	1207102-13	M_7-31-2012_10-14-03AM-02	07/31/12 10:45
GW0738	2G31008-MS1	M_7-31-2012_10-14-03AM-02	07/31/12 10:46
GW0738	2G31008-MSD1	M_7-31-2012_10-14-03AM-02	07/31/12 10:47
GW0739	1207102-15	M_7-31-2012_10-14-03AM-02	07/31/12 10:49
GW0743	1207102-17	M_7-31-2012_10-14-03AM-02	07/31/12 10:50
Calibration Check	2G21303-CCV1	M_7-31-2012_10-14-03AM-02	07/31/12 10:52
Calibration Blank	2G21303-CCB1	M_7-31-2012_10-14-03AM-02	07/31/12 10:53
GW0744	1207102-19	M_7-31-2012_10-14-03AM-02	07/31/12 10:55
GW0745	1207102-21	M_7-31-2012_10-14-03AM-02	07/31/12 10:56
GW0746	1207102-23	M_7-31-2012_10-14-03AM-03	07/31/12 10:58
GW0629	1207107-01	M_7-31-2012_10-14-03AM-03	07/31/12 10:59
GW0653	1207107-05	M_7-31-2012_10-14-03AM-03	07/31/12 11:05
GW0654	1207107-07	M_7-31-2012_10-14-03AM-03	07/31/12 11:06
GW0730	1207107-09	M_7-31-2012_10-14-03AM-03	07/31/12 11:08

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21303	Instrument:	WC-Lachat
Calibration:	2213001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0732	1207107-11	M_7-31-2012_10-14-03AM-03	07/31/12 11:09
GW0643	1207107-03RE1	M_7-31-2012_10-14-03AM-03	07/31/12 11:11
Calibration Check	2G21303-CCV2	M_7-31-2012_10-14-03AM-04	07/31/12 11:12
Calibration Blank	2G21303-CCB2	M_7-31-2012_10-14-03AM-04	07/31/12 11:14
Calibration Check	2G21303-CCV3	M_7-31-2012_11-25-07AM-00	07/31/12 11:27
Calibration Blank	2G21303-CCB3	M_7-31-2012_11-25-07AM-00	07/31/12 11:28
GW0629	2G31008-MS3	M_7-31-2012_11-25-07AM-00	07/31/12 11:30
GW0629	2G31008-MSD3	M_7-31-2012_11-25-07AM-00	07/31/12 11:31
Calibration Check	2G21303-CCV4	M_7-31-2012_11-25-07AM-00	07/31/12 11:32
Calibration Blank	2G21303-CCB4	M_7-31-2012_11-25-07AM-00	07/31/12 11:34

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21506	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H21506-CCV1	072512-003	07/25/12 18:05
Calibration Blank	2H21506-CCB1	072512-004	07/25/12 18:22
Instrument RL Check	2H21506-CRL3	072512-007	07/25/12 19:15
LCS	2G25016-BS1	072512-008	07/25/12 19:32
Blank	2G25016-BLK1	072512-010	07/25/12 20:07
GW0737	1207102-11	072512-013	07/25/12 20:59
GW0739	1207102-15	072512-014	07/25/12 21:17
Calibration Check	2H21506-CCV2	072512-019	07/25/12 22:44
Calibration Blank	2H21506-CCB2	072512-020	07/25/12 23:01
GW0744	1207102-19	072512-021	07/25/12 23:18
GW0745	1207102-21	072512-022	07/25/12 23:36
GW0746	1207102-23	072512-023	07/25/12 23:53
GW0629	1207107-01	072512-024	07/26/12 00:11
GW0643	1207107-03	072512-025	07/26/12 00:28
GW0743	1207102-17	072512-026	07/26/12 00:45
GW0738	1207102-13RE1	072512-027	07/26/12 01:03
GW0738	2G25016-MS1	072512-028	07/26/12 01:20
GW0738	2G25016-MSD1	072512-029	07/26/12 01:38
GW0738	2G25016-DUP1	072512-030	07/26/12 01:55
Calibration Check	2H21506-CCV3	072512-031	07/26/12 02:12
Calibration Blank	2H21506-CCB3	072512-032	07/26/12 02:30
GW0653	1207107-05	072512-033	07/26/12 02:47
GW0654	1207107-07	072512-034	07/26/12 03:05
GW0730	1207107-09	072512-035	07/26/12 03:22
GW0732	1207107-11	072512-036	07/26/12 03:40
Calibration Check	2H21506-CCV4	072512-041	07/26/12 05:07
Calibration Blank	2H21506-CCB4	072512-042	07/26/12 05:24

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22003	Instrument:	WC-Lachat
Calibration:	2220001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H22003-CAL1	)M_8-7-2012_08-15-01AM-00	08/07/12 08:16
Cal Standard	2H22003-CAL2	)M_8-7-2012_08-15-01AM-00	08/07/12 08:17
Cal Standard	2H22003-CAL3	)M_8-7-2012_08-15-01AM-00	08/07/12 08:18
Cal Standard	2H22003-CAL4	)M_8-7-2012_08-15-01AM-00	08/07/12 08:19
Cal Standard	2H22003-CAL5	)M_8-7-2012_08-15-01AM-00	08/07/12 08:20
Cal Standard	2H22003-CAL6	)M_8-7-2012_08-15-01AM-00	08/07/12 08:21
Cal Standard	2H22003-CAL7	)M_8-7-2012_08-15-01AM-00	08/07/12 08:22
Cal Standard	2H22003-CAL8	)M_8-7-2012_08-15-01AM-00	08/07/12 08:23
Initial Cal Check	2H22003-ICV1	)M_8-7-2012_08-15-01AM-00	08/07/12 08:23
Initial Cal Blank	2H22003-ICB1	)M_8-7-2012_08-15-01AM-01	08/07/12 08:24
Blank	2H06002-BLK1	)M_8-7-2012_08-15-01AM-01	08/07/12 08:25
LCS	2H06002-BS1	)M_8-7-2012_08-15-01AM-01	08/07/12 08:26
GW0655	1207102-01	)M_8-7-2012_08-15-01AM-01	08/07/12 08:27
GW0656	1207102-03	)M_8-7-2012_08-15-01AM-01	08/07/12 08:28
GW0657	1207102-05	)M_8-7-2012_08-15-01AM-01	08/07/12 08:29
GW0685	1207102-07	)M_8-7-2012_08-15-01AM-01	08/07/12 08:30
GW0686	1207102-09	)M_8-7-2012_08-15-01AM-01	08/07/12 08:31
GW0737	1207102-11	)M_8-7-2012_08-15-01AM-01	08/07/12 08:32
GW0738	1207102-13	)M_8-7-2012_08-15-01AM-01	08/07/12 08:33
GW0738	2H06002-MS1	)M_8-7-2012_08-15-01AM-02	08/07/12 08:34
GW0738	2H06002-MSD1	)M_8-7-2012_08-15-01AM-02	08/07/12 08:35
GW0739	1207102-15	)M_8-7-2012_08-15-01AM-02	08/07/12 08:36
GW0743	1207102-17	)M_8-7-2012_08-15-01AM-02	08/07/12 08:37
GW0744	1207102-19	)M_8-7-2012_08-15-01AM-02	08/07/12 08:38
Calibration Check	2H22003-CCV1	)M_8-7-2012_08-15-01AM-02	08/07/12 08:39
Calibration Blank	2H22003-CCB1	)M_8-7-2012_08-15-01AM-02	08/07/12 08:40
GW0745	1207102-21	)M_8-7-2012_08-15-01AM-02	08/07/12 08:41
GW0629	1207107-01	)M_8-7-2012_08-15-01AM-02	08/07/12 08:42
GW0746	1207102-23	)M_8-7-2012_08-15-01AM-02	08/07/12 08:42
GW0643	1207107-03	)M_8-7-2012_08-15-01AM-03	08/07/12 08:43
GW0653	1207107-05	)M_8-7-2012_08-15-01AM-03	08/07/12 08:44
GW0654	1207107-07	)M_8-7-2012_08-15-01AM-03	08/07/12 08:45

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22003	Instrument:	WC-Lachat
Calibration:	2220001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0730	1207107-09	)M_8-7-2012_08-15-01AM-03	08/07/12 08:46
GW0732	1207107-11	)M_8-7-2012_08-15-01AM-03	08/07/12 08:47
Calibration Check	2H22003-CCV2	)M_8-7-2012_08-15-01AM-03	08/07/12 08:50
Calibration Blank	2H22003-CCB2	)M_8-7-2012_08-15-01AM-03	08/07/12 08:51

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_057
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22104	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22104-CCV1	072712-003	07/27/12 13:44
Calibration Blank	2H22104-CCB1	072712-004	07/27/12 14:02
Instrument RL Check	2H22104-CRL3	072712-007	07/27/12 14:54
LCS	2G27002-BS1	072712-008	07/27/12 15:11
Blank	2G27002-BLK1	072712-010	07/27/12 15:46
Calibration Check	2H22104-CCV2	072712-021	07/27/12 18:58
Calibration Blank	2H22104-CCB2	072712-022	07/27/12 19:15
GW0737	1207102-11RE1	072712-023	07/27/12 19:33
Calibration Check	2H22104-CCV3	072712-033	07/27/12 22:27
Calibration Blank	2H22104-CCB3	072712-034	07/27/12 22:44