ANALYTICAL DATA PACKAGE
SDG # KIRTLAND_070

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

SUBMITTAL TO:
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THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

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

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

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

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

SW8260B:
Note – Sample 1211074-03 was analyzed at a 2x due to the sample foaming during screening. No lower analyses were able to be performed.

The following continuing calibration verifications exceeded criteria:
2K31408-CCV1 with a positive bias for n-Butylbenzene, Carbon Disulfide, Hexachlorobutadiene, 1,1,1,2-Tetrachloroethane, Tetrachloroethene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene and with a negative bias for 2-Chlorotoluene, 1,2-Dichloroethane, and 1,1,2,2-Tetrachloroethane
2K31905-CCV1 with a positive bias for Dibromochloromethane, Hexachlorobutadiene, 1,1,1,2-Tetrachloroethane, and Tetrachloroethene and with a negative bias for 2-Chlorotoluene, 1,2-Dichloroethane, and 1,1,2,2-Tetrachloroethane
2K32002-CCV1 with a negative bias for Bromomethane and a positive bias for 2-Butanone and 4-Methyl-2-pentanone
2K32103-CCV1 with a negative bias for Acetone

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

SW8270D BNA:
Note – All surrogates were diluted out in samples 1211066-01, -03, 1211091-03RE1, and -03RE2 due to the high dilutions due to the high concentration of Acetophenone.

The following continuing calibration verifications exceeded criteria:
2K32014-CCV1 with a positive bias for Benzo(b)fluoranthene, 4,6-Dinitro-2-methylphenol, 2-Nitrophenol, and Terphenyl-d14
2K32014-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2K32603-CCV1 with a positive bias for 2-Nitrophenol
2K32603-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2K33504-CCV1 with a positive bias for 2-Nitrophenol and Terphenyl-d14
2K33504-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2L33805-CCV1 with a positive bias for 2,4-Dinitrophenol and 2-Nitrophenol
2L33805-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine

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

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

advisory. Surrogates were not provided for samples 1211066-01RE1, -03RE2, and 1211091-03RE1 due to the high dilutions necessary to bring 1,2-Dibromoethane into linear range and the surrogate being diluted out.

The following continuing calibration verifications exceeded criteria:
2K31716-CCV3 with a negative bias for 1,3-Dibromopropane on column 2
2K32303-CCV2 with a negative bias for 1,3-Dibromopropane on column 2

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

SW8015B DRO:
The following surrogates exceeded criteria:
o-Terphenyl with a positive bias in 1211066-01RE1 and -03RE1 and was diluted out in 1211091-03RE1; note – the samples were all at dilutions

The following continuing calibration verifications exceeded criteria:
2K32408-CCV5 with a negative bias for o-Terphenyl

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

SW8015B GRO:
Note – Sample 1211074-01 was analyzed after a sample with a high concentration for Gasoline Range Organics and was believed to have possible carryover. This was not discovered until sample 1211074-01 was outside of the method recommended 14 day holding time and therefore, was not re-analyzed until 19 days after sampling. The re-analysis for samples 1211074-01 was non-detect for Gasoline Range Organics. Only the original analysis was included in the report.

The following surrogates exceeded criteria:
Bromofluorobenzene with a positive bias in 1211066-05, -11, and 2K15028-BLK1

The following continuing calibration verifications exceeded criteria:
2K32414-CCV1 with a positive bias for Bromofluorobenzene
2K32414-CCV2 with a positive bias for Bromofluorobenzene
2K33114-CCV1 with a positive bias for Bromofluorobenzene
2K33114-CCV2 with a positive bias for Bromofluorobenzene

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

SW6010B:
The following blanks have reported results:
2K31912-CCB3 for Iron (dissolved)
2K14027-BLK1 for Iron (dissolved)
Note – The concentrations for Iron in the blanks is less than ½ the LOQ.

The following matrix spikes exceeded criteria:
2K19016-MS1/MSD1 (1211066-05) for Calcium; note – the parent sample concentration for Calcium is greater than 4 times the amount spiked

No additional anomalies or deviations are noted.

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 1211066-01, -03, -05, -07, -09, -11, 1211074-01, -03, -05, 1211091-01, and -03

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.

Lorraine Noronha for

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

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW240

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

Samples Shipment Date: 06 NOV 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619927

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: 11-6-12 Time: 1700
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: 11/7/12 Time: 0835
3. Received By (Signature/Affiliation) Date: 11-7-12 Time: 0835

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 GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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Reference Document No: 140705-GW240

	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	GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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Reference Document No: 140705-GW240

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
05	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
06	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
06	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0773-MSD	KAFB-106021-WG-GW0773-MSD-MSD	06 NOV 2012	12:02	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
07	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0829	KAFB-106074-WG-GW0829-REG	06 NOV 2012	15:57	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		

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1211066
1211062

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW240

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
09	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0858	KAFB-106004-WG-GW0858-REG	05 NOV 2012	13:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
11	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
12	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0859	KAFB-106099-WG-GW0859-REG	05 NOV 2012	10:44	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0877R	KAFB-106206-WG-GW0877R-REG	06 NOV 2012	16:18	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
01	GW0877R	KAFB-106206-WG-GW0877R-REG	06 NOV 2012	16:18	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0880R	KAFB-106209-WG-GW0880R-REG	06 NOV 2012	11:51	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
02	GW0880R	KAFB-106209-WG-GW0880R-REG	06 NOV 2012	11:51	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
13	GW8240-TB	FIELDQC-BW-GW8240-TB-TB	05 NOV 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/07/12 @ 0835

Workorder# 1211062/1211066

1. Tracking # 9927 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.8 °C + *correction factor (+ 0.2)* = 1.0 °C

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/07/12 @ 0835 Workorder# 1211066

1. Tracking # 9950 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.3 °C + *correction factor (+ 0.2)* = 0.5 °C

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/07/12 @ 0835 Workorder# 1211066

1. Tracking # 9949 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.1 °C + *correction factor (+ 0.2)* = 1.3 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/07/12 @ 0835 Workorder# 1211066

1. Tracking # 9938 (last 4 digits, FedEx)

   Courier: ___FED-EX

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

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # JD 11-7-12 of 4

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Kirtland 070 10

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/07/12 @ 0835 Workorder# 1211066

1. Tracking # 9960 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.6 °C + *correction factor (+ 0.2)* = 0.8 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

1211074

Shaw™
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW241

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

Samples Shipment Date: 07 NOV 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619971

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) 11-07-12 Shaw Date: 11-07-12 Time: 1600
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack deuilleja. Date: 11-08-12 Time: 835

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	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
↓	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
↓	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

1211074

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW241

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
03	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
05	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
06	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0876R	KAFB-106205-WG-GW0876R-REG	07 NOV 2012	10:15	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0876R	KAFB-106205-WG-GW0876R-REG	07 NOV 2012	10:15	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		

1211074

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW241

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
07 GW8241-TB	FIELDQC-BW-GW8241-TB-TB	07 NOV 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/08/12 @ 0835 Workorder# 1211074/

1. Tracking # 9971 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.3 °C + *correction factor (+ 0.2)* = 0.5 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/08/12 @ 0835 Workorder# 1211074/

1. Tracking # 9993 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.3 °C + *correction factor (+ 0.2)* = 0.5 °C

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/08/12 @ 0835 Workorder# 1211074

1. Tracking # 9982 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.8 °C + correction factor (+ 0.2) = 3.0 °C

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Kirtland_070 26

Lorraine Noronha

From: Huang, Susan <Susan.Huang@shawgrp.com>
Sent: Wednesday, December 05, 2012 11:52 AM
To: lnoronha@empirlabs.com
Subject: RE: Kirtland_070 GRO 1211074-01 & -01RE1

Hi Lorraine,

Please report the original gasoline data. In the case narrative, discuss that the TPH detection could be lab contamination, the reanalysis was performed outside the holding time, TPH in the reanalysis was ND. etc.

Thanks
Susan Huang
Shaw Environmental & Infrastructure
4005 Port Chicago Highway
Concord, CA 94520
(925) 288-2099 direct
(925) 288-0888 fax
www.shawgrp.com

From: Lorraine Noronha [mailto:lnoronha@empirlabs.com]
Sent: Tuesday, December 04, 2012 6:08 PM
To: Huang, Susan
Subject: Kirtland_070 GRO 1211074-01 & -01RE1
Importance: High

Susan:

On the GRO sample that was rerun out of holding due to possible carryover, did you want both analytical runs, or did you want us to elevate the within hold results and report those? The out of hold analysis is below detection limits.

Lorraine Noronha
President
Empirical Laboratories, LLC
Main: 615.345.1115 I Fax: 866.417.0548

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http://www.shawgrp.com

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1241091

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW242

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

Samples Shipment Date: 08 NOV 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306620015

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation): D Shaw Date: 11/8/12 Time: 1500hrs
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) Date: 11/09/12 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
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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1211091

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW242

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
02	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
04	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
05	GW8062-AB	FIELDQC-BW-GW8062-AB-AB	08 NOV 2012	13:51	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
06	GW8242-TB	FIELDQC-BW-GW8242-TB-TB	08 NOV 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/09/12 @ 0830 Workorder# 1211091

1. Tracking # 0015 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.9 °C + *correction factor (+ 0.2)* = 2.1 °C

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details: *GW80602-AB HAD 1 VOA BIS+
GW80757 HAD 1 UNPRESERVED VOA BIS+

C:\Documents and Settings\bwright\Desktop\New CRF.doc1.doc Page 1 of 1

+BROKEN IN SHIPMENT

Shaw™
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1241091

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW242

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

Samples Shipment Date: 08 NOV 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306620015

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation): D Shaw Date: 11/8/12 Time: 1500hrs
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) Date: 11/09/12 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
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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Shaw E & I, Inc.

1211091

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW242

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
02	GW0757	KAFB-106006-WG-GW0757-REG	08 NOV 2012	10:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
04	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
08	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0831	KAFB-106076-WG-GW0831-REG	08 NOV 2012	13:51	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
05	GW8062-AB	FIELDQC-BW-GW8062-AB-AB	08 NOV 2012	13:51	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
06	GW8242-TB	FIELDQC-BW-GW8242-TB-TB	08 NOV 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/09/12 @ 0830 Workorder# 1211091

1. Tracking # 0015 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.9 °C + *correction factor (+ 0.2)* = 2.1 °C

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details: *GW8062-AB HAD 1 VOA BIS+
GW8757 HAD 1 UNPRESERVED VOA BIS+

C:\Documents and Settings\bwright\Desktop\New CRF.doc1.doc Page 1 of 1

+BROKEN IN SHIPMENT

WORK ORDER

Printed: 11/9/2012 8:39:19AM

1211066

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

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

Due to Client: 11/30/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 11/07/2012 08:35
Logged In By: Jack Deville
Date Logged In: 11/07/2012 12:44

Samples Received at: **1°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1211066-01 GW0761 [Water] Sampled 11/05/2012 10:14 Mountain 'Client Sample'					
E300.0	WC_ANIONS_300.0 (Regular)	11/27/2012 14:00	15	12/03/2012 11:14	Cl, SO4
SW8270D	SMS_BNA_8270D_3510_REG	11/27/2012 14:00	15	11/12/2012 11:14	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E353.2	WC_NO3NO2_N_353.2	11/27/2012 14:00	15	12/03/2012 11:14	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/27/2012 14:00	15	12/03/2012 11:14	
SM2320B	WC_ALKALINITY_2320B	11/27/2012 14:00	15	11/19/2012 11:14	carb/bicarb
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/19/2012 11:14	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	11/27/2012 14:00	15	11/19/2012 11:14	
SW8015B DRO	SGC_DRO_8015B_3510	11/27/2012 14:00	15	11/12/2012 11:14	
SW6010B	MET_ICP_6010B_FULL	11/27/2012 14:00	15	05/04/2013 11:14	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	11/27/2012 14:00	15	11/19/2012 11:14	Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	11/27/2012 14:00	15	11/12/2012 11:14	
1211066-02 GW0761 [Water] Sampled 11/05/2012 10:14 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/27/2012 14:00	15	05/04/2013 11:14	Fe & Mn

1211066

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1211066-03 GW0765 [Water] Sampled 11/05/2012 13:13 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	11/27/2012 14:00	15	11/19/2012 14:13	Run dilutions based on 8260 results!
SM2320B	WC_ALKALINITY_2320B	11/27/2012 14:00	15	11/19/2012 14:13	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	11/27/2012 14:00	15	11/12/2012 14:13	
E353.2	WC_NO3NO2_N_353.2	11/27/2012 14:00	15	12/03/2012 14:13	
E300.0	WC_ANIONS_300.0 (Regular)	11/27/2012 14:00	15	12/03/2012 14:13	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/27/2012 14:00	15	12/03/2012 14:13	
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/19/2012 14:13	naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	11/27/2012 14:00	15	11/12/2012 14:13	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	11/27/2012 14:00	15	11/12/2012 14:13	
SW6010B	MET_ICP_6010B_FULL	11/27/2012 14:00	15	05/04/2013 14:13	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/27/2012 14:00	15	11/19/2012 14:13	
1211066-04 GW0765 [Water] Sampled 11/05/2012 13:13 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/27/2012 14:00	15	05/04/2013 14:13	Fe & Mn
1211066-05 GW0773 [Water] Sampled 11/06/2012 12:02 Mountain 'Client Sample'					**MS/MSD**
SM2320B	WC_ALKALINITY_2320B	11/27/2012 14:00	15	11/20/2012 13:02	MS/MSD, carb/bicarb
SW8011	SGC_EDB_8011	11/27/2012 14:00	15	11/20/2012 13:02	MS/MSD, Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	11/27/2012 14:00	15	11/13/2012 13:02	MS/MSD
SW8270D	SMS_BNA_8270D_3510_REG	11/27/2012 14:00	15	11/13/2012 13:02	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/27/2012 14:00	15	11/20/2012 13:02	MS/MSD
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/20/2012 13:02	MS/MSD, naphthalene must be reported
E300.0	WC_ANIONS_300.0 (Regular)	11/27/2012 14:00	15	12/04/2012 13:02	MS/MSD, Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/27/2012 14:00	15	12/04/2012 13:02	MS/MSD
SM4500S2CF	WC_SULFIDE_4500S2CF	11/27/2012 14:00	15	11/13/2012 13:02	MS/MSD
SW6010B	MET_ICP_6010B_FULL	11/27/2012 14:00	15	05/05/2013 13:02	MS/MSD, Ca, Pb, K, Na, Mg
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/27/2012 14:00	15	12/04/2012 13:02	MS/MSD
1211066-06 GW0773 [Water] Sampled 11/06/2012 12:02 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/27/2012 14:00	15	05/05/2013 13:02	MS/MSD, Fe & Mn

1211066

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1211066-07 GW0829 [Water] Sampled 11/06/2012 15:57 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/20/2012 16:57	naphthalene must be reported
E300.0	WC_ANIONS_300.0 (Regular)	11/27/2012 14:00	15	12/04/2012 16:57	Cl, SO4
SM4500S2CF	WC_SULFIDE_4500S2CF	11/27/2012 14:00	15	11/13/2012 16:57	
E353.2	WC_NO3NO2_N_353.2	11/27/2012 14:00	15	12/04/2012 16:57	
SM2320B	WC_ALKALINITY_2320B	11/27/2012 14:00	15	11/20/2012 16:57	carb/bicarb
SW8015B GRO	VGC_GRO_8015B	11/27/2012 14:00	15	11/20/2012 16:57	
SW8270D	SMS_BNA_8270D_3510_REG	11/27/2012 14:00	15	11/13/2012 16:57	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/27/2012 14:00	15	11/20/2012 16:57	Run dilutions based on 8260 results!
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/27/2012 14:00	15	12/04/2012 16:57	
SW8015B DRO	SGC_DRO_8015B_3510	11/27/2012 14:00	15	11/13/2012 16:57	
SW6010B	MET_ICP_6010B_FULL	11/27/2012 14:00	15	05/05/2013 16:57	Ca, Pb, K, Na, Mg
1211066-08 GW0829 [Water] Sampled 11/06/2012 15:57 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/27/2012 14:00	15	05/05/2013 16:57	Fe & Mn
1211066-09 GW0858 [Water] Sampled 11/05/2012 13:00 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	11/27/2012 14:00	15	11/19/2012 14:00	Run dilutions based on 8260 results!
E300.0	WC_ANIONS_300.0 (Regular)	11/27/2012 14:00	15	12/03/2012 14:00	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/27/2012 14:00	15	12/03/2012 14:00	
SM2320B	WC_ALKALINITY_2320B	11/27/2012 14:00	15	11/19/2012 14:00	carb/bicarb
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/19/2012 14:00	naphthalene must be reported
E353.2	WC_NO3NO2_N_353.2	11/27/2012 14:00	15	12/03/2012 14:00	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/27/2012 14:00	15	11/12/2012 14:00	
SW8270D	SMS_BNA_8270D_3510_REG	11/27/2012 14:00	15	11/12/2012 14:00	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	11/27/2012 14:00	15	11/12/2012 14:00	
SW6010B	MET_ICP_6010B_FULL	11/27/2012 14:00	15	05/04/2013 14:00	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/27/2012 14:00	15	11/19/2012 14:00	
1211066-10 GW0858 [Water] Sampled 11/05/2012 13:00 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/27/2012 14:00	15	05/04/2013 14:00	Fe & Mn

1211066

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1211066-11 GW0859 [Water] Sampled 11/05/2012 10:44 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	11/27/2012 14:00	15	11/19/2012 11:44	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	11/27/2012 14:00	15	05/04/2013 11:44	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	11/27/2012 14:00	15	11/12/2012 11:44	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/27/2012 14:00	15	11/19/2012 11:44	
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/19/2012 11:44	naphthalene must be reported
SM4500S2CF	WC_SULFIDE_4500S2CF	11/27/2012 14:00	15	11/12/2012 11:44	
E353.2	WC_NO3NO2_N_353.2	11/27/2012 14:00	15	12/03/2012 11:44	
E300.0	WC_ANIONS_300.0 (Regular)	11/27/2012 14:00	15	12/03/2012 11:44	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/27/2012 14:00	15	12/03/2012 11:44	
SW8015B DRO	SGC_DRO_8015B_3510	11/27/2012 14:00	15	11/12/2012 11:44	
SM2320B	WC_ALKALINITY_2320B	11/27/2012 14:00	15	11/19/2012 11:44	carb/bicarb
1211066-12 GW0859 [Water] Sampled 11/05/2012 10:44 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/27/2012 14:00	15	05/04/2013 11:44	Fe & Mn
1211066-13 GW8240-TB [Water] Sampled 11/05/2012 08:00 Central 'Trip Blank'					
SW8260B	VOC_8260B_REG	11/27/2012 14:00	15	11/19/2012 08:00	naphthalene must be reported

Reviewed By

Date

WORK ORDER

Printed: 12/5/2012 2:33:28PM

1211074

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

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

Due to Client: 12/04/2012 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: 11/08/2012 08:35
Logged In By: Jack Deville
Date Logged In: 11/08/2012 11:02

Samples Received at: **0.5°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1211074-01 GW0772 [Water] Sampled 11/07/2012 10:39 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	11/28/2012 14:00	15	11/14/2012 11:39	
SW8015B DRO	SGC_DRO_8015B_3510	11/28/2012 14:00	15	11/14/2012 11:39	
SW8011	SGC_EDB_8011	11/28/2012 14:00	15	11/21/2012 11:39	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/28/2012 14:00	15	11/14/2012 11:39	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/28/2012 14:00	15	11/21/2012 11:39	
SW8260B	VOC_8260B_REG	11/28/2012 14:00	15	11/21/2012 11:39	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/28/2012 14:00	15	11/21/2012 11:39	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/28/2012 14:00	15	12/05/2012 11:39	
E300.0	WC_ANIONS_300.0 (Regular)	11/28/2012 14:00	15	12/05/2012 11:39	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/28/2012 14:00	15	12/05/2012 11:39	
SW6010B	MET_ICP_6010B_FULL	11/28/2012 14:00	15	05/06/2013 11:39	Ca, Pb, K, Na, Mg
1211074-02 GW0772 [Water] Sampled 11/07/2012 10:39 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/28/2012 14:00	15	05/06/2013 11:39	Fe & Mn

1211074

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1211074-03 GW0828 [Water] Sampled 11/07/2012 12:59 Mountain 'Client Sample'					
E300.0	WC_ANIONS_300.0 (Regular)	11/28/2012 14:00	15	12/05/2012 13:59	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	11/28/2012 14:00	15	05/06/2013 13:59	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	11/28/2012 14:00	15	11/21/2012 13:59	naphthalene must be reported
E353.2	WC_NO3NO2_N_353.2	11/28/2012 14:00	15	12/05/2012 13:59	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/28/2012 14:00	15	12/05/2012 13:59	
SM2320B	WC_ALKALINITY_2320B	11/28/2012 14:00	15	11/21/2012 13:59	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	11/28/2012 14:00	15	11/14/2012 13:59	
SW8011	SGC_EDB_8011	11/28/2012 14:00	15	11/21/2012 13:59	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/28/2012 14:00	15	11/14/2012 13:59	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/28/2012 14:00	15	11/21/2012 13:59	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/28/2012 14:00	15	11/14/2012 13:59	
1211074-04 GW0828 [Water] Sampled 11/07/2012 12:59 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/28/2012 14:00	15	05/06/2013 13:59	Fe & Mn
1211074-05 GW0830 [Water] Sampled 11/07/2012 15:17 Mountain 'Client Sample'					
SW8015B GRO	VGC_GRO_8015B	11/28/2012 14:00	15	11/21/2012 16:17	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/28/2012 14:00	15	11/14/2012 16:17	
SM2320B	WC_ALKALINITY_2320B	11/28/2012 14:00	15	11/21/2012 16:17	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/28/2012 14:00	15	12/05/2012 16:17	
E300.0	WC_ANIONS_300.0 (Regular)	11/28/2012 14:00	15	12/05/2012 16:17	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/28/2012 14:00	15	12/05/2012 16:17	
SW8270D	SMS_BNA_8270D_3510_REG	11/28/2012 14:00	15	11/14/2012 16:17	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/28/2012 14:00	15	11/21/2012 16:17	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	11/28/2012 14:00	15	05/06/2013 16:17	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	11/28/2012 14:00	15	11/21/2012 16:17	naphthalene must be reported
SW8015B DRO	SGC_DRO_8015B_3510	11/28/2012 14:00	15	11/14/2012 16:17	
1211074-06 GW0830 [Water] Sampled 11/07/2012 15:17 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/28/2012 14:00	15	05/06/2013 16:17	Fe & Mn
1211074-07 GW8241-TB [Water] Sampled 11/07/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	11/28/2012 14:00	15	11/21/2012 09:00	naphthalene must be reported

Reviewed By

Date

WORK ORDER

Printed: 11/12/2012 4:05:03PM

1211091

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

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

Due to Client: 12/04/2012 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: Benjamin C. Wright
Date Received: 11/09/2012 08:30
Logged In By: Benjamin C. Wright
Date Logged In: 11/09/2012 13:44

Samples Received at: **2.1°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
1211091-01 GW0757 [Water] Sampled 11/08/2012 10:37 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/29/2012 14:00	15	11/15/2012 11:37	
SW8011	SGC_EDB_8011	11/29/2012 14:00	15	11/22/2012 11:37	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/29/2012 14:00	15	11/15/2012 11:37	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/29/2012 14:00	15	11/22/2012 11:37	
SW8260B	VOC_8260B_REG	11/29/2012 14:00	15	11/22/2012 11:37	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/29/2012 14:00	15	11/22/2012 11:37	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/29/2012 14:00	15	12/06/2012 11:37	
E300.0	WC_ANIONS_300.0 (Regular)	11/29/2012 14:00	15	12/06/2012 11:37	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/29/2012 14:00	15	12/06/2012 11:37	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/29/2012 14:00	15	11/15/2012 11:37	
SW6010B	MET_ICP_6010B_FULL	11/29/2012 14:00	15	05/07/2013 11:37	Ca, Pb, K, Na, Mg
1211091-02 GW0757 [Water] Sampled 11/08/2012 10:37 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/29/2012 14:00	15	05/07/2013 11:37	Fe & Mn

WORK ORDER

Printed: 11/12/2012 4:05:03PM

1211091

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1211091-03 GW0831 [Water] Sampled 11/08/2012 13:51 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/29/2012 14:00	15	11/15/2012 14:51	
SW8011	SGC_EDB_8011	11/29/2012 14:00	15	11/22/2012 14:51	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/29/2012 14:00	15	11/15/2012 14:51	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/29/2012 14:00	15	11/22/2012 14:51	
SW8260B	VOC_8260B_REG	11/29/2012 14:00	15	11/22/2012 14:51	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/29/2012 14:00	15	11/22/2012 14:51	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/29/2012 14:00	15	12/06/2012 14:51	
E300.0	WC_ANIONS_300.0 (Regular)	11/29/2012 14:00	15	12/06/2012 14:51	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/29/2012 14:00	15	12/06/2012 14:51	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/29/2012 14:00	15	11/15/2012 14:51	
SW6010B	MET_ICP_6010B_FULL	11/29/2012 14:00	15	05/07/2013 14:51	Ca, Pb, K, Na, Mg
1211091-04 GW0831 [Water] Sampled 11/08/2012 13:51 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/29/2012 14:00	15	05/07/2013 14:51	Fe & Mn
1211091-05 GW8062-AB [Water] Sampled 11/08/2012 13:51 Mountain 'Ambient Blank'					
SW8260B	VOC_8260B_REG	11/29/2012 14:00	15	11/22/2012 14:51	naphthalene must be reported
1211091-06 GW8242-TB [Water] Sampled 11/08/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	11/29/2012 14:00	15	11/22/2012 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_070

QC LEVEL: Level IV
Report Due: 12/4/2012
Client Sample Count: 22

Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF
11/5/2012	11/7/2012	1211066-01	GW0761	Water	X	X	X	X	X
11/5/2012	11/7/2012	1211066-02	GW0761	Water					
11/5/2012	11/7/2012	1211066-03	GW0765	Water	X	X	X	X	X
11/5/2012	11/7/2012	1211066-04	GW0765	Water					
11/6/2012	11/7/2012	1211066-05	GW0773	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
11/6/2012	11/7/2012	1211066-06	GW0773	Water					
11/6/2012	11/7/2012	1211066-07	GW0829	Water	X	X	X	X	X
11/6/2012	11/7/2012	1211066-08	GW0829	Water					
11/5/2012	11/7/2012	1211066-09	GW0858	Water	X	X	X	X	X
11/5/2012	11/7/2012	1211066-10	GW0858	Water					
11/5/2012	11/7/2012	1211066-11	GW0859	Water	X	X	X	X	X
11/5/2012	11/7/2012	1211066-12	GW0859	Water					
11/5/2012	11/7/2012	1211066-13	GW8240-TB	Water					
11/7/2012	11/8/2012	1211074-01	GW0772	Water	X	X	X	X	X
11/7/2012	11/8/2012	1211074-02	GW0772	Water					
11/7/2012	11/8/2012	1211074-03	GW0828	Water	X	X	X	X	X
11/7/2012	11/8/2012	1211074-04	GW0828	Water					
11/7/2012	11/8/2012	1211074-05	GW0830	Water	X	X	X	X	X
11/7/2012	11/8/2012	1211074-06	GW0830	Water					
11/7/2012	11/8/2012	1211074-07	GW8241-TB	Water					
11/8/2012	11/9/2012	1211091-01	GW0757	Water	X	X	X	X	X
11/8/2012	11/9/2012	1211091-02	GW0757	Water					
11/8/2012	11/9/2012	1211091-03	GW0831	Water	X	X	X	X	X
11/8/2012	11/9/2012	1211091-04	GW0831	Water					
11/8/2012	11/9/2012	1211091-05	GW8062-AB	Water					
11/8/2012	11/9/2012	1211091-06	GW8242-TB	Water					

Sampled	Received	Lab ID	Client ID	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
11/5/2012	11/7/2012	1211066-01	GW0761	X	X	X	X	X	X
11/5/2012	11/7/2012	1211066-02	GW0761	X					
11/5/2012	11/7/2012	1211066-03	GW0765	X	X	X	X	X	X
11/5/2012	11/7/2012	1211066-04	GW0765	X					
11/6/2012	11/7/2012	1211066-05	GW0773	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
11/6/2012	11/7/2012	1211066-06	GW0773	X					
11/6/2012	11/7/2012	1211066-07	GW0829	X	X	X	X	X	X
11/6/2012	11/7/2012	1211066-08	GW0829	X					
11/5/2012	11/7/2012	1211066-09	GW0858	X	X	X	X	X	X
11/5/2012	11/7/2012	1211066-10	GW0858	X					
11/5/2012	11/7/2012	1211066-11	GW0859	X	X	X	X	X	X
11/5/2012	11/7/2012	1211066-12	GW0859	X					
11/5/2012	11/7/2012	1211066-13	GW8240-TB					X	
11/7/2012	11/8/2012	1211074-01	GW0772	X	X	X	X	X	X
11/7/2012	11/8/2012	1211074-02	GW0772	X					
11/7/2012	11/8/2012	1211074-03	GW0828	X	X	X	X	X	X
11/7/2012	11/8/2012	1211074-04	GW0828	X					
11/7/2012	11/8/2012	1211074-05	GW0830	X	X	X	X	X	X
11/7/2012	11/8/2012	1211074-06	GW0830	X					
11/7/2012	11/8/2012	1211074-07	GW8241-TB					X	
11/8/2012	11/9/2012	1211091-01	GW0757	X	X	X	X	X	X
11/8/2012	11/9/2012	1211091-02	GW0757	X					
11/8/2012	11/9/2012	1211091-03	GW0831	X	X	X	X	X	X
11/8/2012	11/9/2012	1211091-04	GW0831	X					
11/8/2012	11/9/2012	1211091-05	GW8062-AB					X	
11/8/2012	11/9/2012	1211091-06	GW8242-TB					X	

Data for SW8260B Forms

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-13 [GW8240-TB]	2K09002	5.00/5.00	5.00	5.00	1.00			11/09/12
1211074-07 [GW8241-TB]	2K09002	5.00/5.00	5.00	5.00	1.00			11/09/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K13009	5.00/5.00	5.00	5.00	100.00			11/13/12
1211066-03 [GW0765]	2K13009	5.00/5.00	5.00	5.00	100.00			11/13/12
1211066-05 [GW0773]	2K13009	5.00/5.00	5.00	5.00	1.00			11/13/12
1211066-07 [GW0829]	2K13009	5.00/5.00	5.00	5.00	1.00			11/13/12
1211066-09 [GW0858]	2K13009	5.00/5.00	5.00	5.00	1.00			11/13/12
1211066-11 [GW0859]	2K13009	5.00/5.00	5.00	5.00	1.00			11/13/12
1211074-01 [GW0772]	2K13009	5.00/5.00	5.00	5.00	1.00			11/13/12
1211074-03 [GW0828]	2K13009	5.00/5.00	5.00	5.00	2.00			11/13/12
1211074-05 [GW0830]	2K13009	5.00/5.00	5.00	5.00	1.00			11/13/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-05 [GW8062-AB]	2K15002	5.00/5.00	5.00	5.00	1.00			11/15/12
1211091-06 [GW8242-TB]	2K15002	5.00/5.00	5.00	5.00	1.00			11/15/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K15009	5.00/5.00	5.00	5.00	10.00			11/16/12
1211091-03 [GW0831]	2K15009	5.00/5.00	5.00	5.00	200.00			11/16/12

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01	File ID:	1106601D.D
Sampled:	11/05/12 10:14	Prepared:	11/13/12 19:00	Analyzed:	11/13/12 19:00
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		250	500	1000	U
71-43-2	Benzene	**12700**	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone		250	500	1000	U
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	UY
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	UX
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)		25.0	50.0	100	U
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	UY
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	**1590**	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	200	UX

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01	File ID:	1106601D.D
Sampled:	11/05/12 10:14	Prepared:	11/13/12 19:00	Analyzed:	11/13/12 19:00
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	U
98-82-8	Isopropylbenzene	**83.0**	25.0	50.0	100	JD
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	**96.0**	25.0	50.0	200	JD
108-10-1	4-Methyl-2-pentanone		125	250	500	U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	**102**	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	UY
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	UX
127-18-4	Tetrachloroethene		25.0	50.0	100	UX
108-88-3	Toluene	**11000**	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	200	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	200	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	**95.0**	25.0	50.0	100	JD
95-63-6	1,2,4-Trimethylbenzene	**259**	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	**3070**	75.0	150	300	D

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.23	90.8	75 - 120	
Dibromofluoromethane	30.00	29.49	98.3	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	28.11	93.7	85 - 120	

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03	File ID:	1106603D.D
Sampled:	11/05/12 13:13	Prepared:	11/13/12 19:28	Analyzed:	11/13/12 19:28
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**1990**	250	500	1000	D
71-43-2	Benzene	**8380**	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	**823**	250	500	1000	JD
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	UY
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	UX
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	**288**	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	UY
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	**1530**	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	200	UX

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03	File ID:	1106603D.D
Sampled:	11/05/12 13:13	Prepared:	11/13/12 19:28	Analyzed:	11/13/12 19:28
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	U
98-82-8	Isopropylbenzene	**103**	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	**113**	25.0	50.0	200	JD
108-10-1	4-Methyl-2-pentanone		125	250	500	U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	**107**	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	UY
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	UX
127-18-4	Tetrachloroethene		25.0	50.0	100	UX
108-88-3	Toluene	**18000**	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	200	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	200	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	**110**	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	**305**	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	**4380**	75.0	150	300	D

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.42	98.1	75 - 120	
Dibromofluoromethane	30.00	29.02	96.7	85 - 115	
1,2-Dichloroethane-d4	30.00	29.39	98.0	70 - 120	
Toluene-d8	30.00	28.81	96.0	85 - 120	

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	1106605.D
Sampled:	11/06/12 12:02	Prepared:	11/13/12 15:45	Analyzed:	11/13/12 15:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	1106605.D
Sampled:	11/06/12 12:02	Prepared:	11/13/12 15:45	Analyzed:	11/13/12 15:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.16	97.2	75 - 120	
Dibromofluoromethane	30.00	27.99	93.3	85 - 115	
1,2-Dichloroethane-d4	30.00	31.49	105	70 - 120	
Toluene-d8	30.00	30.89	103	85 - 120	

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	1106607.D
Sampled:	11/06/12 15:57	Prepared:	11/13/12 12:59	Analyzed:	11/13/12 12:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	1106607.D
Sampled:	11/06/12 15:57	Prepared:	11/13/12 12:59	Analyzed:	11/13/12 12:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.03	96.8	75 - 120	
Dibromofluoromethane	30.00	28.50	95.0	85 - 115	
1,2-Dichloroethane-d4	30.00	30.90	103	70 - 120	
Toluene-d8	30.00	30.86	103	85 - 120	

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	1106609.D
Sampled:	11/05/12 13:00	Prepared:	11/13/12 13:27	Analyzed:	11/13/12 13:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	1106609.D
Sampled:	11/05/12 13:00	Prepared:	11/13/12 13:27	Analyzed:	11/13/12 13:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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	**0.440**	0.250	0.500	1.00	J
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.57	95.2	75 - 120	
Dibromofluoromethane	30.00	28.70	95.7	85 - 115	
1,2-Dichloroethane-d4	30.00	30.24	101	70 - 120	
Toluene-d8	30.00	30.80	103	85 - 120	

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	1106611.D
Sampled:	11/05/12 10:44	Prepared:	11/13/12 13:54	Analyzed:	11/13/12 13:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	1106611.D
Sampled:	11/05/12 10:44	Prepared:	11/13/12 13:54	Analyzed:	11/13/12 13:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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	**0.470**	0.250	0.500	1.00	J
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.43	94.8	75 - 120	
Dibromofluoromethane	30.00	30.03	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.63	102	70 - 120	
Toluene-d8	30.00	29.36	97.9	85 - 120	

ANALYSIS DATA SHEET

GW8240-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-13	File ID:	1106613.D
Sampled:	11/05/12 08:00	Prepared:	11/09/12 13:03	Analyzed:	11/09/12 13:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UX
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	UX
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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW8240-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-13	File ID:	1106613.D
Sampled:	11/05/12 08:00	Prepared:	11/09/12 13:03	Analyzed:	11/09/12 13:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.80	96.0	75 - 120	
Dibromofluoromethane	30.00	28.38	94.6	85 - 115	
1,2-Dichloroethane-d4	30.00	30.43	101	70 - 120	
Toluene-d8	30.00	30.34	101	85 - 120	

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	1107401.D
Sampled:	11/07/12 10:39	Prepared:	11/13/12 16:13	Analyzed:	11/13/12 16:13
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	1107401.D
Sampled:	11/07/12 10:39	Prepared:	11/13/12 16:13	Analyzed:	11/13/12 16:13
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.82	96.1	75 - 120	
Dibromofluoromethane	30.00	27.95	93.2	85 - 115	
1,2-Dichloroethane-d4	30.00	30.60	102	70 - 120	
Toluene-d8	30.00	31.05	104	85 - 120	

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	1107403D.D
Sampled:	11/07/12 12:59	Prepared:	11/13/12 16:41	Analyzed:	11/13/12 16:41
Solids:		Preparation:	5030B	Dilution:	2

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**110**	5.00	10.0	20.0	D
71-43-2	Benzene		0.500	1.00	2.00	U
108-86-1	Bromobenzene		0.500	1.00	2.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.500	1.00	2.00	U
75-25-2	Bromoform		0.500	1.00	2.00	U
74-83-9	Bromomethane		1.00	2.00	4.00	U
104-51-8	n-Butylbenzene		0.500	1.00	2.00	U
78-93-3	2-Butanone		5.00	10.0	20.0	U
135-98-8	sec-Butylbenzene		0.500	1.00	2.00	U
98-06-6	tert-Butylbenzene		0.500	1.00	2.00	U
75-15-0	Carbon disulfide		0.500	1.00	2.00	U
56-23-5	Carbon tetrachloride		0.500	1.00	2.00	U
108-90-7	Chlorobenzene		0.500	1.00	2.00	U
75-00-3	Chloroethane		1.00	2.00	4.00	U
67-66-3	Chloroform		0.500	1.00	2.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	U
95-49-8	2-Chlorotoluene		0.500	1.00	2.00	UY
106-43-4	4-Chlorotoluene		0.500	1.00	2.00	U
124-48-1	Dibromochloromethane		0.500	1.00	2.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		1.00	2.00	4.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.500	1.00	2.00	U
74-95-3	Dibromomethane		0.500	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene		0.500	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene		0.500	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene		0.500	1.00	2.00	U
75-71-8	Dichlorodifluoromethane		1.00	2.00	4.00	U
75-34-3	1,1-Dichloroethane		0.500	1.00	2.00	U
107-06-2	1,2-Dichloroethane		0.500	1.00	2.00	UY
75-35-4	1,1-Dichloroethene		0.500	1.00	2.00	U
156-59-2	cis-1,2-Dichloroethene		0.500	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.500	1.00	2.00	U
142-28-9	1,3-Dichloropropane		0.500	1.00	2.00	U
594-20-7	2,2-Dichloropropane		0.500	1.00	2.00	U
563-58-6	1,1-Dichloropropene		0.500	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene		0.500	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
87-68-3	Hexachlorobutadiene		0.500	1.00	4.00	UX

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	1107403D.D
Sampled:	11/07/12 12:59	Prepared:	11/13/12 16:41	Analyzed:	11/13/12 16:41
Solids:		Preparation:	5030B	Dilution:	2

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		2.50	5.00	10.0	U
98-82-8	Isopropylbenzene	**5.32**	0.500	1.00	2.00	D
99-87-6	p-Isopropyltoluene	**0.720**	0.500	1.00	2.00	JD
75-09-2	Methylene chloride		1.00	2.00	4.00	U
91-20-3	Naphthalene		0.500	1.00	4.00	U
108-10-1	4-Methyl-2-pentanone		2.50	5.00	10.0	U
1634-04-4	Methyl t-Butyl Ether		0.500	1.00	2.00	U
103-65-1	n-Propylbenzene		0.500	1.00	2.00	U
100-42-5	Styrene		0.500	1.00	2.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.500	1.00	2.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.500	1.00	2.00	UX
127-18-4	Tetrachloroethene		0.500	1.00	2.00	UX
108-88-3	Toluene		0.500	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene		0.500	1.00	4.00	U
120-82-1	1,2,4-Trichlorobenzene		0.500	1.00	4.00	U
79-00-5	1,1,2-Trichloroethane		0.500	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane		0.500	1.00	2.00	U
79-01-6	Trichloroethene		0.500	1.00	2.00	U
75-69-4	Trichlorofluoromethane		1.00	2.00	4.00	U
96-18-4	1,2,3-Trichloropropane		1.00	2.00	4.00	U
108-67-8	1,3,5-Trimethylbenzene		0.500	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.69	95.6	75 - 120	
Dibromofluoromethane	30.00	28.51	95.0	85 - 115	
1,2-Dichloroethane-d4	30.00	30.43	101	70 - 120	
Toluene-d8	30.00	31.18	104	85 - 120	

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	1107405.D
Sampled:	11/07/12 15:17	Prepared:	11/13/12 17:09	Analyzed:	11/13/12 17:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**3.67**	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	1107405.D
Sampled:	11/07/12 15:17	Prepared:	11/13/12 17:09	Analyzed:	11/13/12 17:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	**0.350**	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	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.02	96.7	75 - 120	
Dibromofluoromethane	30.00	29.06	96.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	30.40	101	85 - 120	

ANALYSIS DATA SHEET

GW8241-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-07	File ID:	1107407.D
Sampled:	11/07/12 08:00	Prepared:	11/09/12 13:58	Analyzed:	11/09/12 13:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UX
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	UX
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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

GW8241-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-07	File ID:	1107407.D
Sampled:	11/07/12 08:00	Prepared:	11/09/12 13:58	Analyzed:	11/09/12 13:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.10	97.0	75 - 120	
Dibromofluoromethane	30.00	28.05	93.5	85 - 115	
1,2-Dichloroethane-d4	30.00	31.57	105	70 - 120	
Toluene-d8	30.00	30.20	101	85 - 120	

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	1109101D.D
Sampled:	11/08/12 10:37	Prepared:	11/16/12 03:03	Analyzed:	11/16/12 03:03
Solids:		Preparation:	5030B	Dilution:	10

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		25.0	50.0	100	UY
71-43-2	Benzene	**233**	2.50	5.00	10.0	D
108-86-1	Bromobenzene		2.50	5.00	10.0	U
74-97-5	Bromochloromethane		2.50	5.00	10.0	U
75-27-4	Bromodichloromethane		2.50	5.00	10.0	U
75-25-2	Bromoform		2.50	5.00	10.0	U
74-83-9	Bromomethane		5.00	10.0	20.0	U
104-51-8	n-Butylbenzene		2.50	5.00	10.0	U
78-93-3	2-Butanone		25.0	50.0	100	U
135-98-8	sec-Butylbenzene		2.50	5.00	10.0	U
98-06-6	tert-Butylbenzene		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		2.50	5.00	10.0	U
56-23-5	Carbon tetrachloride		2.50	5.00	10.0	U
108-90-7	Chlorobenzene		2.50	5.00	10.0	U
75-00-3	Chloroethane		5.00	10.0	20.0	U
67-66-3	Chloroform		2.50	5.00	10.0	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
95-49-8	2-Chlorotoluene		2.50	5.00	10.0	U
106-43-4	4-Chlorotoluene		2.50	5.00	10.0	U
124-48-1	Dibromochloromethane		2.50	5.00	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.00	10.0	20.0	U
106-93-4	1,2-Dibromoethane (EDB)		2.50	5.00	10.0	U
74-95-3	Dibromomethane		2.50	5.00	10.0	U
95-50-1	1,2-Dichlorobenzene		2.50	5.00	10.0	U
541-73-1	1,3-Dichlorobenzene		2.50	5.00	10.0	U
106-46-7	1,4-Dichlorobenzene		2.50	5.00	10.0	U
75-71-8	Dichlorodifluoromethane		5.00	10.0	20.0	U
75-34-3	1,1-Dichloroethane		2.50	5.00	10.0	U
107-06-2	1,2-Dichloroethane		2.50	5.00	10.0	U
75-35-4	1,1-Dichloroethene		2.50	5.00	10.0	U
156-59-2	cis-1,2-Dichloroethene		2.50	5.00	10.0	U
156-60-5	trans-1,2-Dichloroethene		2.50	5.00	10.0	U
78-87-5	1,2-Dichloropropane		2.50	5.00	10.0	U
142-28-9	1,3-Dichloropropane		2.50	5.00	10.0	U
594-20-7	2,2-Dichloropropane		2.50	5.00	10.0	U
563-58-6	1,1-Dichloropropene		2.50	5.00	10.0	U
10061-01-5	cis-1,3-Dichloropropene		2.50	5.00	10.0	U
10061-02-6	trans-1,3-Dichloropropene		2.50	5.00	10.0	U
100-41-4	Ethylbenzene	**43.4**	2.50	5.00	10.0	D
87-68-3	Hexachlorobutadiene		2.50	5.00	20.0	U

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	1109101D.D
Sampled:	11/08/12 10:37	Prepared:	11/16/12 03:03	Analyzed:	11/16/12 03:03
Solids:		Preparation:	5030B	Dilution:	10

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		12.5	25.0	50.0	U
98-82-8	Isopropylbenzene	**4.40**	2.50	5.00	10.0	JD
99-87-6	p-Isopropyltoluene		2.50	5.00	10.0	U
75-09-2	Methylene chloride		5.00	10.0	20.0	U
91-20-3	Naphthalene	**3.20**	2.50	5.00	20.0	JD
108-10-1	4-Methyl-2-pentanone		12.5	25.0	50.0	U
1634-04-4	Methyl t-Butyl Ether		2.50	5.00	10.0	U
103-65-1	n-Propylbenzene	**3.20**	2.50	5.00	10.0	JD
100-42-5	Styrene		2.50	5.00	10.0	U
79-34-5	1,1,2,2-Tetrachloroethane		2.50	5.00	10.0	U
630-20-6	1,1,1,2-Tetrachloroethane		2.50	5.00	10.0	U
127-18-4	Tetrachloroethene		2.50	5.00	10.0	U
108-88-3	Toluene	**158**	2.50	5.00	10.0	D
87-61-6	1,2,3-Trichlorobenzene		2.50	5.00	20.0	U
120-82-1	1,2,4-Trichlorobenzene		2.50	5.00	20.0	U
79-00-5	1,1,2-Trichloroethane		2.50	5.00	10.0	U
71-55-6	1,1,1-Trichloroethane		2.50	5.00	10.0	U
79-01-6	Trichloroethene		2.50	5.00	10.0	U
75-69-4	Trichlorofluoromethane		5.00	10.0	20.0	U
96-18-4	1,2,3-Trichloropropane		5.00	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene		2.50	5.00	10.0	U
95-63-6	1,2,4-Trimethylbenzene		2.50	5.00	10.0	U
75-01-4	Vinyl chloride		2.50	5.00	10.0	U
1330-20-7	Xylenes (total)	**47.7**	7.50	15.0	30.0	D

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.90	93.0	75 - 120	
Dibromofluoromethane	30.00	29.06	96.9	85 - 115	
1,2-Dichloroethane-d4	30.00	29.92	99.7	70 - 120	
Toluene-d8	30.00	30.07	100	85 - 120	

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03	File ID:	1109103D.D
Sampled:	11/08/12 13:51	Prepared:	11/16/12 03:59	Analyzed:	11/16/12 03:59
Solids:		Preparation:	5030B	Dilution:	200

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**4580**	500	1000	2000	YD
71-43-2	Benzene	**9320**	50.0	100	200	D
108-86-1	Bromobenzene		50.0	100	200	U
74-97-5	Bromochloromethane		50.0	100	200	U
75-27-4	Bromodichloromethane		50.0	100	200	U
75-25-2	Bromoform		50.0	100	200	U
74-83-9	Bromomethane		100	200	400	U
104-51-8	n-Butylbenzene		50.0	100	200	U
78-93-3	2-Butanone		500	1000	2000	U
135-98-8	sec-Butylbenzene		50.0	100	200	U
98-06-6	tert-Butylbenzene		50.0	100	200	U
75-15-0	Carbon disulfide		50.0	100	200	U
56-23-5	Carbon tetrachloride		50.0	100	200	U
108-90-7	Chlorobenzene		50.0	100	200	U
75-00-3	Chloroethane		100	200	400	U
67-66-3	Chloroform		50.0	100	200	U
74-87-3	Chloromethane		50.0	100	200	U
95-49-8	2-Chlorotoluene		50.0	100	200	U
106-43-4	4-Chlorotoluene		50.0	100	200	U
124-48-1	Dibromochloromethane		50.0	100	200	U
96-12-8	1,2-Dibromo-3-chloropropane		100	200	400	U
106-93-4	1,2-Dibromoethane (EDB)	**284**	50.0	100	200	D
74-95-3	Dibromomethane		50.0	100	200	U
95-50-1	1,2-Dichlorobenzene		50.0	100	200	U
541-73-1	1,3-Dichlorobenzene		50.0	100	200	U
106-46-7	1,4-Dichlorobenzene		50.0	100	200	U
75-71-8	Dichlorodifluoromethane		100	200	400	U
75-34-3	1,1-Dichloroethane		50.0	100	200	U
107-06-2	1,2-Dichloroethane		50.0	100	200	U
75-35-4	1,1-Dichloroethene		50.0	100	200	U
156-59-2	cis-1,2-Dichloroethene		50.0	100	200	U
156-60-5	trans-1,2-Dichloroethene		50.0	100	200	U
78-87-5	1,2-Dichloropropane		50.0	100	200	U
142-28-9	1,3-Dichloropropane		50.0	100	200	U
594-20-7	2,2-Dichloropropane		50.0	100	200	U
563-58-6	1,1-Dichloropropene		50.0	100	200	U
10061-01-5	cis-1,3-Dichloropropene		50.0	100	200	U
10061-02-6	trans-1,3-Dichloropropene		50.0	100	200	U
100-41-4	Ethylbenzene	**772**	50.0	100	200	D
87-68-3	Hexachlorobutadiene		50.0	100	400	U

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03	File ID:	1109103D.D
Sampled:	11/08/12 13:51	Prepared:	11/16/12 03:59	Analyzed:	11/16/12 03:59
Solids:		Preparation:	5030B	Dilution:	200

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		250	500	1000	U
98-82-8	Isopropylbenzene	**56.0**	50.0	100	200	JD
99-87-6	p-Isopropyltoluene		50.0	100	200	U
75-09-2	Methylene chloride		100	200	400	U
91-20-3	Naphthalene	**200**	50.0	100	400	JD
108-10-1	4-Methyl-2-pentanone		250	500	1000	U
1634-04-4	Methyl t-Butyl Ether		50.0	100	200	U
103-65-1	n-Propylbenzene	**56.0**	50.0	100	200	JD
100-42-5	Styrene		50.0	100	200	U
79-34-5	1,1,2,2-Tetrachloroethane		50.0	100	200	U
630-20-6	1,1,1,2-Tetrachloroethane		50.0	100	200	U
127-18-4	Tetrachloroethene		50.0	100	200	U
108-88-3	Toluene	**12700**	50.0	100	200	D
87-61-6	1,2,3-Trichlorobenzene		50.0	100	400	U
120-82-1	1,2,4-Trichlorobenzene		50.0	100	400	U
79-00-5	1,1,2-Trichloroethane		50.0	100	200	U
71-55-6	1,1,1-Trichloroethane		50.0	100	200	U
79-01-6	Trichloroethene		50.0	100	200	U
75-69-4	Trichlorofluoromethane		100	200	400	U
96-18-4	1,2,3-Trichloropropane		100	200	400	U
108-67-8	1,3,5-Trimethylbenzene	**60.0**	50.0	100	200	JD
95-63-6	1,2,4-Trimethylbenzene	**226**	50.0	100	200	D
75-01-4	Vinyl chloride		50.0	100	200	U
1330-20-7	Xylenes (total)	**3120**	150	300	600	D

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.85	92.8	75 - 120	
Dibromofluoromethane	30.00	29.69	99.0	85 - 115	
1,2-Dichloroethane-d4	30.00	31.76	106	70 - 120	
Toluene-d8	30.00	28.90	96.3	85 - 120	

ANALYSIS DATA SHEET

GW8062-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-05	File ID:	1109105.D
Sampled:	11/08/12 13:51	Prepared:	11/15/12 13:38	Analyzed:	11/15/12 13:38
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW8062-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-05	File ID:	1109105.D
Sampled:	11/08/12 13:51	Prepared:	11/15/12 13:38	Analyzed:	11/15/12 13:38
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.79	92.6	75 - 120	
Dibromofluoromethane	30.00	28.97	96.6	85 - 115	
1,2-Dichloroethane-d4	30.00	31.01	103	70 - 120	
Toluene-d8	30.00	29.59	98.6	85 - 120	

ANALYSIS DATA SHEET

GW8242-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-06	File ID:	1109106.D
Sampled:	11/08/12 08:00	Prepared:	11/15/12 14:06	Analyzed:	11/15/12 14:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW8242-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-06	File ID:	1109106.D
Sampled:	11/08/12 08:00	Prepared:	11/15/12 14:06	Analyzed:	11/15/12 14:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	UX
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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.03	90.1	75 - 120	
Dibromofluoromethane	30.00	29.64	98.8	85 - 115	
1,2-Dichloroethane-d4	30.00	30.68	102	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31408-CCV1) ug/L				Lab File ID: 1109CCV1.D		Analyzed: 11/09/12 07:01		
Bromofluorobenzene	30.00	104	80 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.4	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	80 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	107	80 - 120	9.31	9.31	0.0000	+/-1.000	
LCS (2K09002-BS1) ug/L				Lab File ID: 1109LCS1.D		Analyzed: 11/09/12 07:29		
Bromofluorobenzene	30.00	107	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.3	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.31	9.31	0.0000	+/-1.000	
Blank (2K09002-BLK1) ug/L				Lab File ID: 1109BLK1.D		Analyzed: 11/09/12 08:52		
Bromofluorobenzene	30.00	98.2	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.4	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW8240-TB (1211066-13) ug/L				Lab File ID: 1106613.D		Analyzed: 11/09/12 13:03		
Bromofluorobenzene	30.00	96.0	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.6	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW8241-TB (1211074-07) ug/L				Lab File ID: 1107407.D		Analyzed: 11/09/12 13:58		
Bromofluorobenzene	30.00	97.0	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.5	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.31	9.31	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31905	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31905-CCV1) ug/L				Lab File ID: 1113CCV1.D		Analyzed: 11/13/12 09:16		
Bromofluorobenzene	30.00	102	80 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.5	80 - 120	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.3	9.3	0.0000	+/-1.000	
LCS (2K13009-BS1) ug/L				Lab File ID: 1113LCS1.D		Analyzed: 11/13/12 09:44		
Bromofluorobenzene	30.00	104	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	109	85 - 120	9.31	9.3	0.0100	+/-1.000	
Blank (2K13009-BLK1) ug/L				Lab File ID: 1113BLK1.D		Analyzed: 11/13/12 11:08		
Bromofluorobenzene	30.00	98.6	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	97.7	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.05	7.06	-0.0100	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW0829 (1211066-07) ug/L				Lab File ID: 1106607.D		Analyzed: 11/13/12 12:59		
Bromofluorobenzene	30.00	96.8	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.0	85 - 115	6.56	6.55	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW0858 (1211066-09) ug/L				Lab File ID: 1106609.D		Analyzed: 11/13/12 13:27		
Bromofluorobenzene	30.00	95.2	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.7	85 - 115	6.56	6.55	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW0859 (1211066-11) ug/L				Lab File ID: 1106611.D		Analyzed: 11/13/12 13:54		
Bromofluorobenzene	30.00	94.8	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	97.9	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW0773 (1211066-05) ug/L				Lab File ID: 1106605.D		Analyzed: 11/13/12 15:45		
Bromofluorobenzene	30.00	97.2	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.3	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.31	9.3	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31905	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0772 (1211074-01) ug/L				Lab File ID: 1107401.D		Analyzed: 11/13/12 16:13		
Bromofluorobenzene	30.00	96.1	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.2	85 - 115	6.56	6.55	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW0828 (1211074-03) ug/L				Lab File ID: 1107403D.D		Analyzed: 11/13/12 16:41		
Bromofluorobenzene	30.00	95.6	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.0	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW0830 (1211074-05) ug/L				Lab File ID: 1107405.D		Analyzed: 11/13/12 17:09		
Bromofluorobenzene	30.00	96.7	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	96.9	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW0761 (1211066-01) ug/L				Lab File ID: 1106601D.D		Analyzed: 11/13/12 19:00		
Bromofluorobenzene	30.00	90.8	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	98.3	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	93.7	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW0765 (1211066-03) ug/L				Lab File ID: 1106603D.D		Analyzed: 11/13/12 19:28		
Bromofluorobenzene	30.00	98.1	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.7	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.0	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	9.3	9.3	0.0000	+/-1.000	
Matrix Spike (2K13009-MS1) ug/L				Lab File ID: 1106605M.D		Analyzed: 11/13/12 19:55		
Bromofluorobenzene	30.00	97.3	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.0	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	97.5	85 - 120	9.3	9.3	0.0000	+/-1.000	
Matrix Spike Dup (2K13009-MSD1) ug/L				Lab File ID: 1106605S.D		Analyzed: 11/13/12 20:23		
Bromofluorobenzene	30.00	100	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.3	85 - 115	6.55	6.55	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	99.8	85 - 120	9.3	9.3	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32002	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32002-CCV1) ug/L				Lab File ID: 1115CCV1.D		Analyzed: 11/15/12 06:41		
Bromofluorobenzene	30.00	98.8	80 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.8	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	99.7	80 - 120	9.31	9.31	0.0000	+/-1.000	
LCS (2K15002-BS1) ug/L				Lab File ID: 1115LCS1.D		Analyzed: 11/15/12 07:09		
Bromofluorobenzene	30.00	98.6	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.31	9.31	0.0000	+/-1.000	
Blank (2K15002-BLK1) ug/L				Lab File ID: 1115BLK1.D		Analyzed: 11/15/12 08:32		
Bromofluorobenzene	30.00	93.1	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.0	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.8	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.3	9.31	-0.0100	+/-1.000	
GW8062-AB (1211091-05) ug/L				Lab File ID: 1109105.D		Analyzed: 11/15/12 13:38		
Bromofluorobenzene	30.00	92.6	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.6	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW8242-TB (1211091-06) ug/L				Lab File ID: 1109106.D		Analyzed: 11/15/12 14:06		
Bromofluorobenzene	30.00	90.1	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.8	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.31	9.31	0.0000	+/-1.000	
LCS Dup (2K15002-BSD1) ug/L				Lab File ID: 1115LCD1.D		Analyzed: 11/15/12 17:49		
Bromofluorobenzene	30.00	98.3	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.7	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	9.31	9.31	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32103	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32103-CCV1) ug/L				Lab File ID: 1115CCVE.D		Analyzed: 11/15/12 18:44		
Bromofluorobenzene	30.00	99.2	80 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.5	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	100	80 - 120	9.31	9.31	0.0000	+/-1.000	
LCS (2K15009-BS1) ug/L				Lab File ID: 1115LCSE.D		Analyzed: 11/15/12 19:12		
Bromofluorobenzene	30.00	97.6	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	9.31	9.31	0.0000	+/-1.000	
Blank (2K15009-BLK1) ug/L				Lab File ID: 1115BLKE.D		Analyzed: 11/15/12 20:35		
Bromofluorobenzene	30.00	93.3	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.5	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW0757 (1211091-01) ug/L				Lab File ID: 1109101D.D		Analyzed: 11/16/12 03:03		
Bromofluorobenzene	30.00	93.0	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.9	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.3	9.31	-0.0100	+/-1.000	
GW0831 (1211091-03) ug/L				Lab File ID: 1109103D.D		Analyzed: 11/16/12 03:59		
Bromofluorobenzene	30.00	92.8	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.0	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.05	7.06	-0.0100	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	9.31	9.31	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-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	88.0	88.0	40 - 140
Benzene	50.00	47.1	94.1	80 - 120
Bromobenzene	50.00	43.7	87.5	75 - 125
Bromochloromethane	50.00	52.4	105	65 - 130
Bromodichloromethane	50.00	46.5	93.1	75 - 120
Bromoform	50.00	53.1	106	70 - 130
Bromomethane	50.00	39.7	79.4	30 - 145
n-Butylbenzene	50.00	53.3	107	70 - 135
2-Butanone	100.0	90.8	90.8	30 - 150
sec-Butylbenzene	50.00	50.8	102	70 - 125
tert-Butylbenzene	50.00	52.5	105	70 - 130
Carbon disulfide	50.00	51.0	102	35 - 160
Carbon tetrachloride	50.00	48.0	96.0	65 - 140
Chlorobenzene	50.00	58.2	116	80 - 120
Chloroethane	50.00	47.6	95.3	60 - 135
Chloroform	50.00	41.8	83.6	65 - 135
Chloromethane	50.00	44.5	89.1	40 - 125
2-Chlorotoluene	50.00	39.5	79.0	75 - 125
4-Chlorotoluene	50.00	42.6	85.2	75 - 130
Dibromochloromethane	50.00	60.8	122	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.4	98.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.7	107	80 - 120
Dibromomethane	50.00	43.9	87.8	75 - 125
1,2-Dichlorobenzene	50.00	48.6	97.2	70 - 120
1,3-Dichlorobenzene	50.00	46.9	93.8	75 - 125
1,4-Dichlorobenzene	50.00	45.1	90.1	75 - 125
Dichlorodifluoromethane	50.00	46.2	92.5	30 - 155
1,1-Dichloroethane	50.00	44.2	88.4	70 - 135
1,2-Dichloroethane	50.00	37.9	75.8	70 - 130
1,1-Dichloroethene	50.00	57.1	114	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-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	45.6	91.1	70 - 125
trans-1,2-Dichloroethene	50.00	49.0	97.9	60 - 140
1,2-Dichloropropane	50.00	43.3	86.7	75 - 125
1,3-Dichloropropane	50.00	46.4	92.9	75 - 125
2,2-Dichloropropane	50.00	40.7	81.4	70 - 135
1,1-Dichloropropene	50.00	43.0	86.1	75 - 130
cis-1,3-Dichloropropene	50.00	40.5	81.0	70 - 130
trans-1,3-Dichloropropene	50.00	47.8	95.5	55 - 140
Ethylbenzene	50.00	51.9	104	75 - 125
Hexachlorobutadiene	50.00	65.0	130	50 - 140
2-Hexanone	100.0	96.5	96.5	55 - 130
Isopropylbenzene	50.00	57.0	114	75 - 125
p-Isopropyltoluene	50.00	57.4	115	75 - 130
Methylene chloride	50.00	44.5	88.9	55 - 140
Naphthalene	50.00	57.5	115	55 - 140
4-Methyl-2-pentanone	100.0	94.3	94.3	60 - 135
Methyl t-Butyl Ether	50.00	43.9	87.8	65 - 125
n-Propylbenzene	50.00	44.5	89.0	70 - 130
Styrene	50.00	58.0	116	65 - 135
1,1,2,2-Tetrachloroethane	50.00	34.1	68.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	60.7	121	80 - 130
Tetrachloroethene	50.00	61.1	122	45 - 150
Toluene	50.00	50.8	102	75 - 120
1,2,3-Trichlorobenzene	50.00	66.9	134	55 - 140
1,2,4-Trichlorobenzene	50.00	65.8	132	65 - 135
1,1,2-Trichloroethane	50.00	49.4	98.9	75 - 125
1,1,1-Trichloroethane	50.00	43.8	87.7	65 - 130
Trichloroethene	50.00	45.7	91.3	70 - 125
Trichlorofluoromethane	50.00	47.1	94.2	60 - 145
1,2,3-Trichloropropane	50.00	54.7	109	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-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	44.5	89.0	75 - 130
1,2,4-Trimethylbenzene	50.00	50.2	100	75 - 130
Vinyl chloride	50.00	36.0	72.0	50 - 145
Xylenes (total)	150.0	163	109	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13009	Laboratory ID:	2K13009-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	84.7	84.7	40 - 140
Benzene	50.00	49.8	99.5	80 - 120
Bromobenzene	50.00	47.8	95.6	75 - 125
Bromochloromethane	50.00	51.5	103	65 - 130
Bromodichloromethane	50.00	46.4	92.7	75 - 120
Bromoform	50.00	56.6	113	70 - 130
Bromomethane	50.00	44.8	89.6	30 - 145
n-Butylbenzene	50.00	45.0	89.9	70 - 135
2-Butanone	100.0	106	106	30 - 150
sec-Butylbenzene	50.00	47.0	94.0	70 - 125
tert-Butylbenzene	50.00	48.8	97.6	70 - 130
Carbon disulfide	50.00	58.9	118	35 - 160
Carbon tetrachloride	50.00	50.2	100	65 - 140
Chlorobenzene	50.00	57.6	115	80 - 120
Chloroethane	50.00	50.9	102	60 - 135
Chloroform	50.00	51.0	102	65 - 135
Chloromethane	50.00	47.7	95.3	40 - 125
2-Chlorotoluene	50.00	38.0	76.0	75 - 125
4-Chlorotoluene	50.00	39.9	79.9	75 - 130
Dibromochloromethane	50.00	63.8	128	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.9	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.1	110	80 - 120
Dibromomethane	50.00	43.8	87.7	75 - 125
1,2-Dichlorobenzene	50.00	46.8	93.6	70 - 120
1,3-Dichlorobenzene	50.00	45.7	91.3	75 - 125
1,4-Dichlorobenzene	50.00	46.7	93.3	75 - 125
Dichlorodifluoromethane	50.00	52.4	105	30 - 155
1,1-Dichloroethane	50.00	52.4	105	70 - 135
1,2-Dichloroethane	50.00	41.1	82.2	70 - 130
1,1-Dichloroethene	50.00	53.8	108	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13009	Laboratory ID:	2K13009-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	52.6	105	70 - 125
trans-1,2-Dichloroethene	50.00	52.8	106	60 - 140
1,2-Dichloropropane	50.00	42.6	85.2	75 - 125
1,3-Dichloropropane	50.00	48.3	96.6	75 - 125
2,2-Dichloropropane	50.00	49.8	99.7	70 - 135
1,1-Dichloropropene	50.00	45.0	90.0	75 - 130
cis-1,3-Dichloropropene	50.00	43.5	87.0	70 - 130
trans-1,3-Dichloropropene	50.00	47.4	94.7	55 - 140
Ethylbenzene	50.00	54.8	110	75 - 125
Hexachlorobutadiene	50.00	69.4	139	50 - 140
2-Hexanone	100.0	85.7	85.7	55 - 130
Isopropylbenzene	50.00	59.9	120	75 - 125
p-Isopropyltoluene	50.00	49.8	99.5	75 - 130
Methylene chloride	50.00	49.8	99.5	55 - 140
Naphthalene	50.00	47.0	94.0	55 - 140
4-Methyl-2-pentanone	100.0	80.4	80.4	60 - 135
Methyl t-Butyl Ether	50.00	51.4	103	65 - 125
n-Propylbenzene	50.00	40.5	81.0	70 - 130
Styrene	50.00	59.1	118	65 - 135
1,1,2,2-Tetrachloroethane	50.00	37.3	74.6	65 - 130
1,1,1,2-Tetrachloroethane	50.00	64.0	128	80 - 130
Tetrachloroethene	50.00	64.8	130	45 - 150
Toluene	50.00	54.7	109	75 - 120
1,2,3-Trichlorobenzene	50.00	58.9	118	55 - 140
1,2,4-Trichlorobenzene	50.00	59.0	118	65 - 135
1,1,2-Trichloroethane	50.00	51.3	103	75 - 125
1,1,1-Trichloroethane	50.00	51.8	104	65 - 130
Trichloroethene	50.00	44.5	89.1	70 - 125
Trichlorofluoromethane	50.00	49.5	99.0	60 - 145
1,2,3-Trichloropropane	50.00	54.5	109	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13009	Laboratory ID:	2K13009-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	44.7	89.5	75 - 130
1,2,4-Trimethylbenzene	50.00	46.8	93.5	75 - 130
Vinyl chloride	50.00	42.2	84.4	50 - 145
Xylenes (total)	150.0	163	108	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15002	Laboratory ID:	2K15002-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	96.0	96.0	40 - 140
Benzene	50.00	50.7	101	80 - 120
Bromobenzene	50.00	44.4	88.7	75 - 125
Bromochloromethane	50.00	47.6	95.3	65 - 130
Bromodichloromethane	50.00	50.9	102	75 - 120
Bromoform	50.00	45.5	91.1	70 - 130
Bromomethane	50.00	36.1	72.2	30 - 145
n-Butylbenzene	50.00	52.2	104	70 - 135
2-Butanone	100.0	114	114	30 - 150
sec-Butylbenzene	50.00	50.5	101	70 - 125
tert-Butylbenzene	50.00	49.7	99.4	70 - 130
Carbon disulfide	50.00	54.1	108	35 - 160
Carbon tetrachloride	50.00	50.7	101	65 - 140
Chlorobenzene	50.00	48.2	96.4	80 - 120
Chloroethane	50.00	46.5	93.0	60 - 135
Chloroform	50.00	46.2	92.4	65 - 135
Chloromethane	50.00	44.2	88.4	40 - 125
2-Chlorotoluene	50.00	45.7	91.4	75 - 125
4-Chlorotoluene	50.00	46.8	93.6	75 - 130
Dibromochloromethane	50.00	51.9	104	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.2	98.4	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.7	95.4	80 - 120
Dibromomethane	50.00	45.9	91.9	75 - 125
1,2-Dichlorobenzene	50.00	45.4	90.9	70 - 120
1,3-Dichlorobenzene	50.00	44.9	89.8	75 - 125
1,4-Dichlorobenzene	50.00	46.0	92.0	75 - 125
Dichlorodifluoromethane	50.00	49.6	99.2	30 - 155
1,1-Dichloroethane	50.00	47.6	95.2	70 - 135
1,2-Dichloroethane	50.00	44.5	88.9	70 - 130
1,1-Dichloroethene	50.00	51.2	102	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15002	Laboratory ID:	2K15002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.7	97.4	70 - 125
trans-1,2-Dichloroethene	50.00	48.3	96.6	60 - 140
1,2-Dichloropropane	50.00	48.1	96.1	75 - 125
1,3-Dichloropropane	50.00	49.0	98.0	75 - 125
2,2-Dichloropropane	50.00	47.9	95.8	70 - 135
1,1-Dichloropropene	50.00	48.4	96.9	75 - 130
cis-1,3-Dichloropropene	50.00	50.6	101	70 - 130
trans-1,3-Dichloropropene	50.00	49.6	99.1	55 - 140
Ethylbenzene	50.00	49.9	99.8	75 - 125
Hexachlorobutadiene	50.00	58.6	117	50 - 140
2-Hexanone	100.0	112	112	55 - 130
Isopropylbenzene	50.00	52.0	104	75 - 125
p-Isopropyltoluene	50.00	51.0	102	75 - 130
Methylene chloride	50.00	46.5	93.1	55 - 140
Naphthalene	50.00	44.6	89.1	55 - 140
4-Methyl-2-pentanone	100.0	119	119	60 - 135
Methyl t-Butyl Ether	50.00	47.7	95.4	65 - 125
n-Propylbenzene	50.00	47.6	95.1	70 - 130
Styrene	50.00	50.9	102	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.2	92.3	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.5	101	80 - 130
Tetrachloroethene	50.00	46.9	93.8	45 - 150
Toluene	50.00	49.9	99.9	75 - 120
1,2,3-Trichlorobenzene	50.00	49.4	98.9	55 - 140
1,2,4-Trichlorobenzene	50.00	50.1	100	65 - 135
1,1,2-Trichloroethane	50.00	48.9	97.7	75 - 125
1,1,1-Trichloroethane	50.00	48.0	96.1	65 - 130
Trichloroethene	50.00	45.1	90.2	70 - 125
Trichlorofluoromethane	50.00	47.3	94.6	60 - 145
1,2,3-Trichloropropane	50.00	51.0	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15002	Laboratory ID:	2K15002-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	48.6	97.1	75 - 130
1,2,4-Trimethylbenzene	50.00	49.9	99.8	75 - 130
Vinyl chloride	50.00	40.3	80.6	50 - 145
Xylenes (total)	150.0	151	101	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	75.8	75.8	23.6	30	40 - 140
Benzene	50.00	51.0	102	0.609	30	80 - 120
Bromobenzene	50.00	45.5	91.1	2.60	30	75 - 125
Bromochloromethane	50.00	49.1	98.2	3.04	30	65 - 130
Bromodichloromethane	50.00	51.3	103	0.744	30	75 - 120
Bromoform	50.00	44.9	89.8	1.35	30	70 - 130
Bromomethane	50.00	36.2	72.5	0.442	30	30 - 145
n-Butylbenzene	50.00	51.3	103	1.85	30	70 - 135
2-Butanone	100.0	94.2	94.2	19.3	30	30 - 150
sec-Butylbenzene	50.00	51.1	102	1.22	30	70 - 125
tert-Butylbenzene	50.00	49.9	99.8	0.482	30	70 - 130
Carbon disulfide	50.00	53.6	107	0.911	30	35 - 160
Carbon tetrachloride	50.00	49.2	98.3	3.12	30	65 - 140
Chlorobenzene	50.00	48.5	97.0	0.682	30	80 - 120
Chloroethane	50.00	45.2	90.4	2.81	30	60 - 135
Chloroform	50.00	48.0	95.9	3.70	30	65 - 135
Chloromethane	50.00	42.6	85.2	3.69	30	40 - 125
2-Chlorotoluene	50.00	45.4	90.9	0.570	30	75 - 125
4-Chlorotoluene	50.00	46.9	93.7	0.192	30	75 - 130
Dibromochloromethane	50.00	51.7	103	0.483	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.2	98.4	0.0407	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.9	95.8	0.460	30	80 - 120
Dibromomethane	50.00	49.0	98.1	6.55	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15002	Laboratory ID:	2K15002-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	50.00	47.1	94.2	3.55	30	70 - 120
1,3-Dichlorobenzene	50.00	45.9	91.9	2.31	30	75 - 125
1,4-Dichlorobenzene	50.00	47.1	94.2	2.34	30	75 - 125
Dichlorodifluoromethane	50.00	46.4	92.7	6.79	30	30 - 155
1,1-Dichloroethane	50.00	48.0	96.0	0.795	30	70 - 135
1,2-Dichloroethane	50.00	45.2	90.4	1.65	30	70 - 130
1,1-Dichloroethene	50.00	51.4	103	0.312	30	70 - 130
cis-1,2-Dichloroethene	50.00	50.2	100	2.91	30	70 - 125
trans-1,2-Dichloroethene	50.00	50.1	100	3.76	30	60 - 140
1,2-Dichloropropane	50.00	49.2	98.4	2.32	30	75 - 125
1,3-Dichloropropane	50.00	49.8	99.7	1.72	30	75 - 125
2,2-Dichloropropane	50.00	46.4	92.9	3.03	30	70 - 135
1,1-Dichloropropene	50.00	47.6	95.2	1.73	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.1	102	0.905	30	70 - 130
trans-1,3-Dichloropropene	50.00	48.2	96.3	2.89	30	55 - 140
Ethylbenzene	50.00	49.8	99.6	0.281	30	75 - 125
Hexachlorobutadiene	50.00	54.9	110	6.56	30	50 - 140
2-Hexanone	100.0	86.5	86.5	25.9	30	55 - 130
Isopropylbenzene	50.00	52.0	104	0.0961	30	75 - 125
p-Isopropyltoluene	50.00	51.2	102	0.470	30	75 - 130
Methylene chloride	50.00	47.1	94.2	1.22	30	55 - 140
Naphthalene	50.00	42.3	84.6	5.25	30	55 - 140
4-Methyl-2-pentanone	100.0	95.5	95.5	21.8	30	60 - 135
Methyl t-Butyl Ether	50.00	48.1	96.2	0.919	30	65 - 125
n-Propylbenzene	50.00	47.6	95.2	0.0841	30	70 - 130
Styrene	50.00	51.4	103	0.938	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	45.9	91.9	0.499	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.4	101	0.317	30	80 - 130
Tetrachloroethene	50.00	45.9	91.8	2.09	30	45 - 150
Toluene	50.00	49.4	98.8	1.13	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15002	Laboratory ID:	2K15002-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2,3-Trichlorobenzene	50.00	47.9	95.8	3.18	30	55 - 140
1,2,4-Trichlorobenzene	50.00	47.4	94.7	5.56	30	65 - 135
1,1,2-Trichloroethane	50.00	50.1	100	2.55	30	75 - 125
1,1,1-Trichloroethane	50.00	48.0	95.9	0.146	30	65 - 130
Trichloroethene	50.00	46.4	92.9	2.93	30	70 - 125
Trichlorofluoromethane	50.00	46.6	93.2	1.47	30	60 - 145
1,2,3-Trichloropropane	50.00	49.9	99.9	2.16	30	75 - 125
1,3,5-Trimethylbenzene	50.00	47.5	95.0	2.14	30	75 - 130
1,2,4-Trimethylbenzene	50.00	49.2	98.5	1.35	30	75 - 130
Vinyl chloride	50.00	36.5	73.0	9.82	30	50 - 145
Xylenes (total)	150.0	150	100	0.743	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15009	Laboratory ID:	2K15009-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	78.4	78.4	40 - 140
Benzene	50.00	53.6	107	80 - 120
Bromobenzene	50.00	46.2	92.5	75 - 125
Bromochloromethane	50.00	50.2	100	65 - 130
Bromodichloromethane	50.00	52.3	105	75 - 120
Bromoform	50.00	46.0	92.0	70 - 130
Bromomethane	50.00	43.7	87.4	30 - 145
n-Butylbenzene	50.00	53.2	106	70 - 135
2-Butanone	100.0	96.6	96.6	30 - 150
sec-Butylbenzene	50.00	52.7	105	70 - 125
tert-Butylbenzene	50.00	51.6	103	70 - 130
Carbon disulfide	50.00	56.2	112	35 - 160
Carbon tetrachloride	50.00	52.2	104	65 - 140
Chlorobenzene	50.00	50.2	100	80 - 120
Chloroethane	50.00	45.6	91.3	60 - 135
Chloroform	50.00	48.7	97.5	65 - 135
Chloromethane	50.00	43.2	86.3	40 - 125
2-Chlorotoluene	50.00	46.0	92.0	75 - 125
4-Chlorotoluene	50.00	46.6	93.2	75 - 130
Dibromochloromethane	50.00	54.2	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.2	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.3	98.7	80 - 120
Dibromomethane	50.00	48.2	96.4	75 - 125
1,2-Dichlorobenzene	50.00	46.5	92.9	70 - 120
1,3-Dichlorobenzene	50.00	46.3	92.5	75 - 125
1,4-Dichlorobenzene	50.00	47.3	94.6	75 - 125
Dichlorodifluoromethane	50.00	49.0	98.0	30 - 155
1,1-Dichloroethane	50.00	49.6	99.3	70 - 135
1,2-Dichloroethane	50.00	45.9	91.7	70 - 130
1,1-Dichloroethene	50.00	53.2	106	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15009	Laboratory ID:	2K15009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	51.6	103	70 - 125
trans-1,2-Dichloroethene	50.00	51.2	102	60 - 140
1,2-Dichloropropane	50.00	50.8	102	75 - 125
1,3-Dichloropropane	50.00	51.6	103	75 - 125
2,2-Dichloropropane	50.00	46.6	93.2	70 - 135
1,1-Dichloropropene	50.00	50.0	100	75 - 130
cis-1,3-Dichloropropene	50.00	51.9	104	70 - 130
trans-1,3-Dichloropropene	50.00	49.8	99.6	55 - 140
Ethylbenzene	50.00	51.5	103	75 - 125
Hexachlorobutadiene	50.00	59.9	120	50 - 140
2-Hexanone	100.0	91.0	91.0	55 - 130
Isopropylbenzene	50.00	54.4	109	75 - 125
p-Isopropyltoluene	50.00	52.9	106	75 - 130
Methylene chloride	50.00	49.2	98.4	55 - 140
Naphthalene	50.00	46.7	93.4	55 - 140
4-Methyl-2-pentanone	100.0	98.5	98.5	60 - 135
Methyl t-Butyl Ether	50.00	50.3	101	65 - 125
n-Propylbenzene	50.00	48.2	96.3	70 - 130
Styrene	50.00	53.3	107	65 - 135
1,1,2,2-Tetrachloroethane	50.00	45.9	91.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.3	105	80 - 130
Tetrachloroethene	50.00	48.4	96.8	45 - 150
Toluene	50.00	51.1	102	75 - 120
1,2,3-Trichlorobenzene	50.00	51.3	103	55 - 140
1,2,4-Trichlorobenzene	50.00	51.4	103	65 - 135
1,1,2-Trichloroethane	50.00	51.4	103	75 - 125
1,1,1-Trichloroethane	50.00	49.9	99.9	65 - 130
Trichloroethene	50.00	48.5	97.0	70 - 125
Trichlorofluoromethane	50.00	49.9	99.9	60 - 145
1,2,3-Trichloropropane	50.00	53.1	106	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15009	Laboratory ID:	2K15009-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	48.0	96.0	75 - 130
1,2,4-Trimethylbenzene	50.00	49.6	99.3	75 - 130
Vinyl chloride	50.00	38.9	77.9	50 - 145
Xylenes (total)	150.0	156	104	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13009

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	75.7	75.7		40 - 140
Benzene	50.00	ND	55.1	110		80 - 120
Bromobenzene	50.00	ND	46.4	92.8		75 - 125
Bromochloromethane	50.00	ND	52.1	104		65 - 130
Bromodichloromethane	50.00	ND	53.8	108		75 - 120
Bromoform	50.00	ND	46.0	91.9		70 - 130
Bromomethane	50.00	ND	43.9	87.8		30 - 145
n-Butylbenzene	50.00	ND	52.2	104		70 - 135
2-Butanone	100.0	ND	98.2	98.2		30 - 150
sec-Butylbenzene	50.00	ND	53.4	107		70 - 125
tert-Butylbenzene	50.00	ND	52.9	106		70 - 130
Carbon disulfide	50.00	ND	58.0	116		35 - 160
Carbon tetrachloride	50.00	ND	53.6	107		65 - 140
Chlorobenzene	50.00	ND	50.8	102		80 - 120
Chloroethane	50.00	ND	51.9	104		60 - 135
Chloroform	50.00	ND	50.7	101		65 - 135
Chloromethane	50.00	ND	49.6	99.2		40 - 125
2-Chlorotoluene	50.00	ND	47.1	94.2		75 - 125
4-Chlorotoluene	50.00	ND	48.7	97.4		75 - 130
Dibromochloromethane	50.00	ND	54.3	109		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	49.0	97.9		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	48.9	97.8		80 - 120
Dibromomethane	50.00	ND	49.6	99.2		75 - 125
1,2-Dichlorobenzene	50.00	ND	47.5	94.9		70 - 120
1,3-Dichlorobenzene	50.00	ND	46.8	93.6		75 - 125
1,4-Dichlorobenzene	50.00	ND	48.4	96.8		75 - 125
Dichlorodifluoromethane	50.00	ND	52.4	105		30 - 155
1,1-Dichloroethane	50.00	ND	51.1	102		70 - 135
1,2-Dichloroethane	50.00	ND	47.4	94.9		70 - 130
1,1-Dichloroethene	50.00	ND	53.8	108		70 - 130
cis-1,2-Dichloroethene	50.00	ND	53.2	106		70 - 125
trans-1,2-Dichloroethene	50.00	ND	52.3	105		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13009

% Solids:

Source Sample Name: **1211066-05**

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	51.9	104		75 - 125
1,3-Dichloropropane	50.00	ND	51.5	103		75 - 125
2,2-Dichloropropane	50.00	ND	44.4	88.7		70 - 135
1,1-Dichloropropene	50.00	ND	52.0	104		75 - 130
cis-1,3-Dichloropropene	50.00	ND	51.8	104		70 - 130
trans-1,3-Dichloropropene	50.00	ND	49.7	99.4		55 - 140
Ethylbenzene	50.00	ND	52.4	105		75 - 125
Hexachlorobutadiene	50.00	ND	53.2	106		50 - 140
2-Hexanone	100.0	ND	88.1	88.1		55 - 130
Isopropylbenzene	50.00	ND	54.8	110		75 - 125
p-Isopropyltoluene	50.00	ND	53.1	106		75 - 130
Methylene chloride	50.00	ND	50.8	102		55 - 140
Naphthalene	50.00	ND	37.3	74.6		55 - 140
4-Methyl-2-pentanone	100.0	ND	97.8	97.8		60 - 135
Methyl t-Butyl Ether	50.00	ND	49.4	98.8		65 - 125
n-Propylbenzene	50.00	ND	49.5	99.0		70 - 130
Styrene	50.00	ND	54.8	110		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	46.6	93.1		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	52.9	106		80 - 130
Tetrachloroethene	50.00	ND	47.8	95.6		45 - 150
Toluene	50.00	ND	53.2	106		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	44.8	89.5		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	45.5	91.0		65 - 135
1,1,2-Trichloroethane	50.00	ND	51.8	104		75 - 125
1,1,1-Trichloroethane	50.00	ND	51.5	103		65 - 130
Trichloroethene	50.00	ND	48.8	97.6		70 - 125
Trichlorofluoromethane	50.00	ND	50.3	101		60 - 145
1,2,3-Trichloropropane	50.00	ND	50.2	100		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	49.6	99.3		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	51.1	102		75 - 130
Vinyl chloride	50.00	ND	43.8	87.7		50 - 145
Xylenes (total)	150.0	ND	161	107		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13009

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	75.1	75.1	0.849		30	40 - 140
Benzene	50.00	50.4	101	8.86		30	80 - 120
Bromobenzene	50.00	43.0	86.0	7.60		30	75 - 125
Bromochloromethane	50.00	49.0	98.0	6.09		30	65 - 130
Bromodichloromethane	50.00	51.1	102	5.18		30	75 - 120
Bromoform	50.00	44.6	89.2	2.98		30	70 - 130
Bromomethane	50.00	39.8	79.5	9.90		30	30 - 145
n-Butylbenzene	50.00	48.5	97.1	7.32		30	70 - 135
2-Butanone	100.0	95.0	95.0	3.33		30	30 - 150
sec-Butylbenzene	50.00	49.7	99.3	7.35		30	70 - 125
tert-Butylbenzene	50.00	49.1	98.2	7.39		30	70 - 130
Carbon disulfide	50.00	53.3	107	8.57		30	35 - 160
Carbon tetrachloride	50.00	48.9	97.8	9.08		30	65 - 140
Chlorobenzene	50.00	48.4	96.8	4.90		30	80 - 120
Chloroethane	50.00	46.8	93.7	10.3		30	60 - 135
Chloroform	50.00	47.1	94.3	7.34		30	65 - 135
Chloromethane	50.00	43.4	86.8	13.3		30	40 - 125
2-Chlorotoluene	50.00	44.2	88.4	6.44		30	75 - 125
4-Chlorotoluene	50.00	45.6	91.2	6.53		30	75 - 130
Dibromochloromethane	50.00	51.7	103	5.04		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.2	92.4	5.78		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.7	95.4	2.42		30	80 - 120
Dibromomethane	50.00	47.3	94.6	4.81		30	75 - 125
1,2-Dichlorobenzene	50.00	44.4	88.7	6.75		30	70 - 120
1,3-Dichlorobenzene	50.00	44.1	88.1	6.03		30	75 - 125
1,4-Dichlorobenzene	50.00	44.8	89.6	7.71		30	75 - 125
Dichlorodifluoromethane	50.00	46.5	93.0	12.0		30	30 - 155
1,1-Dichloroethane	50.00	48.1	96.3	5.95		30	70 - 135
1,2-Dichloroethane	50.00	44.9	89.7	5.59		30	70 - 130
1,1-Dichloroethene	50.00	50.6	101	6.07		30	70 - 130
cis-1,2-Dichloroethene	50.00	48.9	97.7	8.41		30	70 - 125
trans-1,2-Dichloroethene	50.00	48.0	96.0	8.53		30	60 - 140
1,2-Dichloropropane	50.00	48.0	96.1	7.67		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13009

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	49.1	98.2	4.77		30	75 - 125
2,2-Dichloropropane	50.00	40.2	80.3	9.91		30	70 - 135
1,1-Dichloropropene	50.00	47.0	93.9	10.3		30	75 - 130
cis-1,3-Dichloropropene	50.00	48.8	97.7	5.94		30	70 - 130
trans-1,3-Dichloropropene	50.00	47.9	95.7	3.79		30	55 - 140
Ethylbenzene	50.00	49.5	99.0	5.77		30	75 - 125
Hexachlorobutadiene	50.00	54.4	109	2.21		30	50 - 140
2-Hexanone	100.0	89.4	89.4	1.51		30	55 - 130
Isopropylbenzene	50.00	52.0	104	5.33		30	75 - 125
p-Isopropyltoluene	50.00	49.6	99.1	6.95		30	75 - 130
Methylene chloride	50.00	46.6	93.1	8.67		30	55 - 140
Naphthalene	50.00	40.9	81.8	9.21		30	55 - 140
4-Methyl-2-pentanone	100.0	96.7	96.7	1.10		30	60 - 135
Methyl t-Butyl Ether	50.00	48.5	97.1	1.74		30	65 - 125
n-Propylbenzene	50.00	46.6	93.3	5.97		30	70 - 130
Styrene	50.00	51.6	103	5.98		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	44.0	88.0	5.65		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.2	100	5.26		30	80 - 130
Tetrachloroethene	50.00	45.1	90.2	5.81		30	45 - 150
Toluene	50.00	49.6	99.2	6.91		30	75 - 120
1,2,3-Trichlorobenzene	50.00	46.2	92.4	3.14		30	55 - 140
1,2,4-Trichlorobenzene	50.00	45.9	91.8	0.788		30	65 - 135
1,1,2-Trichloroethane	50.00	49.5	99.0	4.58		30	75 - 125
1,1,1-Trichloroethane	50.00	47.5	95.1	8.02		30	65 - 130
Trichloroethene	50.00	45.8	91.7	6.27		30	70 - 125
Trichlorofluoromethane	50.00	45.7	91.4	9.60		30	60 - 145
1,2,3-Trichloropropane	50.00	50.5	101	0.536		30	75 - 125
1,3,5-Trimethylbenzene	50.00	46.3	92.5	7.03		30	75 - 130
1,2,4-Trimethylbenzene	50.00	48.0	95.9	6.38		30	75 - 130
Vinyl chloride	50.00	38.7	77.4	12.5		30	50 - 145
Xylenes (total)	150.0	152	102	5.62		30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K09002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8240-TB	1211066-13	11/09/12 13:03	5.00	5.00
GW8241-TB	1211074-07	11/09/12 13:58	5.00	5.00
Blank	2K09002-BLK1	11/09/12 08:52	5.00	5.00
LCS	2K09002-BS1	11/09/12 07:29	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K13009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/13/12 19:00	5.00	5.00
GW0765	1211066-03	11/13/12 19:28	5.00	5.00
GW0773	1211066-05	11/13/12 15:45	5.00	5.00
GW0829	1211066-07	11/13/12 12:59	5.00	5.00
GW0858	1211066-09	11/13/12 13:27	5.00	5.00
GW0859	1211066-11	11/13/12 13:54	5.00	5.00
GW0772	1211074-01	11/13/12 16:13	5.00	5.00
GW0828	1211074-03	11/13/12 16:41	5.00	5.00
GW0830	1211074-05	11/13/12 17:09	5.00	5.00
Blank	2K13009-BLK1	11/13/12 11:08	5.00	5.00
LCS	2K13009-BS1	11/13/12 09:44	5.00	5.00
GW0773	2K13009-MS1	11/13/12 19:55	5.00	5.00
GW0773	2K13009-MSD1	11/13/12 20:23	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K15002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8062-AB	1211091-05	11/15/12 13:38	5.00	5.00
GW8242-TB	1211091-06	11/15/12 14:06	5.00	5.00
Blank	2K15002-BLK1	11/15/12 08:32	5.00	5.00
LCS	2K15002-BS1	11/15/12 07:09	5.00	5.00
LCS Dup	2K15002-BSD1	11/15/12 17:49	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K15009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/16/12 03:03	5.00	5.00
GW0831	1211091-03	11/16/12 03:59	5.00	5.00
Blank	2K15009-BLK1	11/15/12 20:35	5.00	5.00
LCS	2K15009-BS1	11/15/12 19:12	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K09002-BLK1 File ID: 1109BLK1.D

Sampled: Prepared: Analyzed: 11/09/12 08:52

Solids: Preparation: 5030B Dilution:

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UX
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	UX
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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K09002-BLK1 | File ID: 1109BLK1.D

Sampled: | Prepared: | Analyzed: 11/09/12 08:52

Solids: | Preparation: 5030B | Dilution:

Batch: 2K09002 | Sequence: 2K31408 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
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	29.45	98.2	75 - 120	
Dibromofluoromethane	30.00	28.01	93.4	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.74	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K09002-BS1 | File ID: 1109LCS1.D

Sampled: | Prepared: | Analyzed: 11/09/12 07:29

Solids: | Preparation: 5030B | Dilution:

Batch: 2K09002 | Sequence: 2K31408 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**88.0**	2.50	5.00	10.0	
71-43-2	Benzene	**47.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**43.7**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**52.4**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.5**	0.250	0.500	1.00	
75-25-2	Bromoform	**53.1**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.7**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**53.3**	0.250	0.500	1.00	X
78-93-3	2-Butanone	**90.8**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**50.8**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**52.5**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**51.0**	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	**48.0**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**58.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**47.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**41.8**	0.250	0.500	1.00	
74-87-3	Chloromethane	**44.5**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.5**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**42.6**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**60.8**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**49.4**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**53.7**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**43.9**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**48.6**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**46.9**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**45.1**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.2**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**44.2**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**37.9**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**57.1**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**45.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**49.0**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**43.3**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**46.4**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**40.7**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**43.0**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**40.5**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**47.8**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.9**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**65.0**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K09002-BS1 | File ID: 1109LCS1.D

Sampled: | Prepared: | Analyzed: 11/09/12 07:29

Solids: | Preparation: 5030B | Dilution:

Batch: 2K09002 | Sequence: 2K31408 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**96.5**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**57.0**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**57.4**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**44.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**57.5**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**94.3**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**43.9**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**44.5**	0.250	0.500	1.00	
100-42-5	Styrene	**58.0**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**34.1**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**60.7**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**61.1**	0.250	0.500	1.00	X
108-88-3	Toluene	**50.8**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**66.9**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**65.8**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**49.4**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**43.8**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.7**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.1**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**54.7**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**44.5**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**50.2**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**36.0**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**163**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.97	107	75 - 120	
Dibromofluoromethane	30.00	28.58	95.3	85 - 115	
1,2-Dichloroethane-d4	30.00	31.37	105	70 - 120	
Toluene-d8	30.00	32.93	110	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13009-BLK1 File ID: 1113BLK1.D

Sampled: Prepared: Analyzed: 11/13/12 11:08

Solids: Preparation: 5030B Dilution:

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	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	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
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	UX

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13009-BLK1 File ID: 1113BLK1.D

Sampled: Prepared: Analyzed: 11/13/12 11:08

Solids: Preparation: 5030B Dilution:

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
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	29.57	98.6	75 - 120	
Dibromofluoromethane	30.00	29.30	97.7	85 - 115	
1,2-Dichloroethane-d4	30.00	32.24	107	70 - 120	
Toluene-d8	30.00	30.94	103	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13009-BS1 File ID: 1113LCS1.D

Sampled: Prepared: Analyzed: 11/13/12 09:44

Solids: Preparation: 5030B Dilution:

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**84.7**	2.50	5.00	10.0	
71-43-2	Benzene	**49.8**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**47.8**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**51.5**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.4**	0.250	0.500	1.00	
75-25-2	Bromoform	**56.6**	0.250	0.500	1.00	
74-83-9	Bromomethane	**44.8**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**45.0**	0.250	0.500	1.00	
78-93-3	2-Butanone	**106**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**47.0**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**48.8**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**58.9**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**50.2**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**57.6**	0.250	0.500	1.00	
75-00-3	Chloroethane	**50.9**	0.500	1.00	2.00	
67-66-3	Chloroform	**51.0**	0.250	0.500	1.00	
74-87-3	Chloromethane	**47.7**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**38.0**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**39.9**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**63.8**	0.250	0.500	1.00	X
96-12-8	1,2-Dibromo-3-chloropropane	**50.9**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**55.1**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**43.8**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**46.8**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**45.7**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.7**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**52.4**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**52.4**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**41.1**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**53.8**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**52.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**52.8**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**42.6**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**48.3**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**49.8**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**45.0**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**43.5**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**47.4**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**54.8**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**69.4**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K13009-BS1	File ID:	1113LCS1.D
Sampled:		Prepared:		Analyzed:	11/13/12 09:44
Solids:		Preparation:	5030B	Dilution:	

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**85.7**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**59.9**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**49.8**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**49.8**	0.500	1.00	2.00	
91-20-3	Naphthalene	**47.0**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**80.4**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**51.4**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**40.5**	0.250	0.500	1.00	
100-42-5	Styrene	**59.1**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**37.3**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**64.0**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**64.8**	0.250	0.500	1.00	X
108-88-3	Toluene	**54.7**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**58.9**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**59.0**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**51.3**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**51.8**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**44.5**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**49.5**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**54.5**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**44.7**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**46.8**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**42.2**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**163**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.19	104	75 - 120	
Dibromofluoromethane	30.00	30.16	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.46	105	70 - 120	
Toluene-d8	30.00	32.66	109	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13009-MS1 File ID: 1106605M.D

Sampled: Prepared: Analyzed: 11/13/12 19:55

Solids: Preparation: 5030B Dilution:

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**75.7**	2.50	5.00	10.0	
71-43-2	Benzene	**55.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**46.4**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**52.1**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**53.8**	0.250	0.500	1.00	
75-25-2	Bromoform	**46.0**	0.250	0.500	1.00	
74-83-9	Bromomethane	**43.9**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**52.2**	0.250	0.500	1.00	
78-93-3	2-Butanone	**98.2**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**53.4**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**52.9**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**58.0**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**53.6**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**50.8**	0.250	0.500	1.00	
75-00-3	Chloroethane	**51.9**	0.500	1.00	2.00	
67-66-3	Chloroform	**50.7**	0.250	0.500	1.00	
74-87-3	Chloromethane	**49.6**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**47.1**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**48.7**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**54.3**	0.250	0.500	1.00	X
96-12-8	1,2-Dibromo-3-chloropropane	**49.0**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**48.9**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**49.6**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**47.5**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**46.8**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**48.4**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**52.4**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**51.1**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**47.4**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**53.8**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**53.2**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**52.3**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**51.9**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**51.5**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**44.4**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**52.0**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**51.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**49.7**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**52.4**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**53.2**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K13009-MS1	File ID:	1106605M.D
Sampled:		Prepared:		Analyzed:	11/13/12 19:55
Solids:		Preparation:	5030B	Dilution:	

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**88.1**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**54.8**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**53.1**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**50.8**	0.500	1.00	2.00	
91-20-3	Naphthalene	**37.3**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**97.8**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**49.4**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**49.5**	0.250	0.500	1.00	
100-42-5	Styrene	**54.8**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**46.6**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**52.9**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**47.8**	0.250	0.500	1.00	X
108-88-3	Toluene	**53.2**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**44.8**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**45.5**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**51.8**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**51.5**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**48.8**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**50.3**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**50.2**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**49.6**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**51.1**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**43.8**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**161**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.20	97.3	75 - 120	
Dibromofluoromethane	30.00	29.11	97.0	85 - 115	
1,2-Dichloroethane-d4	30.00	30.25	101	70 - 120	
Toluene-d8	30.00	29.24	97.5	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13009-MSD1 File ID: 1106605S.D

Sampled: Prepared: Analyzed: 11/13/12 20:23

Solids: Preparation: 5030B Dilution:

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**75.1**	2.50	5.00	10.0	
71-43-2	Benzene	**50.4**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**43.0**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**49.0**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**51.1**	0.250	0.500	1.00	
75-25-2	Bromoform	**44.6**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.8**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**48.5**	0.250	0.500	1.00	
78-93-3	2-Butanone	**95.0**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**49.7**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**49.1**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**53.3**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**48.9**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**48.4**	0.250	0.500	1.00	
75-00-3	Chloroethane	**46.8**	0.500	1.00	2.00	
67-66-3	Chloroform	**47.1**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.4**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**44.2**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**45.6**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**51.7**	0.250	0.500	1.00	X
96-12-8	1,2-Dibromo-3-chloropropane	**46.2**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**47.7**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**47.3**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**44.4**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**44.1**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**44.8**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.5**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**48.1**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**44.9**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**50.6**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**48.9**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**48.0**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**48.0**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**49.1**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**40.2**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**47.0**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**48.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**47.9**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**49.5**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**54.4**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13009-MSD1 File ID: 1106605S.D

Sampled: Prepared: Analyzed: 11/13/12 20:23

Solids: Preparation: 5030B Dilution:

Batch: 2K13009 Sequence: 2K31905 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**89.4**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**52.0**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**49.6**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**46.6**	0.500	1.00	2.00	
91-20-3	Naphthalene	**40.9**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**96.7**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**48.5**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**46.6**	0.250	0.500	1.00	
100-42-5	Styrene	**51.6**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**44.0**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**50.2**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**45.1**	0.250	0.500	1.00	X
108-88-3	Toluene	**49.6**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**46.2**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**45.9**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**49.5**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**47.5**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.8**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**45.7**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**50.5**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**46.3**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**48.0**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**38.7**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**152**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.06	100	75 - 120	
Dibromofluoromethane	30.00	29.49	98.3	85 - 115	
1,2-Dichloroethane-d4	30.00	30.12	100	70 - 120	
Toluene-d8	30.00	29.95	99.8	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K15002-BLK1 File ID: 1115BLK1.D

Sampled: Prepared: Analyzed: 11/15/12 08:32

Solids: Preparation: 5030B Dilution:

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K15002-BLK1 File ID: 1115BLK1.D

Sampled: Prepared: Analyzed: 11/15/12 08:32

Solids: Preparation: 5030B Dilution:

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	UX
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	27.94	93.1	75 - 120	
Dibromofluoromethane	30.00	29.09	97.0	85 - 115	
1,2-Dichloroethane-d4	30.00	29.65	98.8	70 - 120	
Toluene-d8	30.00	29.39	98.0	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K15002-BS1 | File ID: 1115LCS1.D

Sampled: | Prepared: | Analyzed: 11/15/12 07:09

Solids: | Preparation: 5030B | Dilution:

Batch: 2K15002 | Sequence: 2K32002 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**96.0**	2.50	5.00	10.0	
71-43-2	Benzene	**50.7**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**44.4**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**47.6**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**50.9**	0.250	0.500	1.00	
75-25-2	Bromoform	**45.5**	0.250	0.500	1.00	
74-83-9	Bromomethane	**36.1**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**52.2**	0.250	0.500	1.00	
78-93-3	2-Butanone	**114**	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	**50.5**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**49.7**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**54.1**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**50.7**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**48.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**46.5**	0.500	1.00	2.00	
67-66-3	Chloroform	**46.2**	0.250	0.500	1.00	
74-87-3	Chloromethane	**44.2**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**45.7**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**46.8**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**51.9**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**49.2**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**47.7**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**45.9**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**45.4**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**44.9**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.0**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**49.6**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**47.6**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**44.5**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**51.2**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**48.7**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**48.3**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**48.1**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**49.0**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**47.9**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**48.4**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**50.6**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**49.6**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**49.9**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**58.6**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K15002-BS1 | File ID: 1115LCS1.D

Sampled: | Prepared: | Analyzed: 11/15/12 07:09

Solids: | Preparation: 5030B | Dilution:

Batch: 2K15002 | Sequence: 2K32002 | Calibration: 2291001 | Instrument: MS-VOA5

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	**52.0**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**51.0**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**46.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**44.6**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**119**	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	**47.7**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**47.6**	0.250	0.500	1.00	
100-42-5	Styrene	**50.9**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**46.2**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**50.5**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**46.9**	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	**49.4**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**50.1**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**48.9**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**48.0**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.1**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.3**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**51.0**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**48.6**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**49.9**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**40.3**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**151**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.59	98.6	75 - 120	
Dibromofluoromethane	30.00	29.38	97.9	85 - 115	
1,2-Dichloroethane-d4	30.00	29.67	98.9	70 - 120	
Toluene-d8	30.00	30.09	100	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K15002-BSD1 File ID: 1115LCD1.D

Sampled: Prepared: Analyzed: 11/15/12 17:49

Solids: Preparation: 5030B Dilution:

Batch: 2K15002 Sequence: 2K32002 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**75.8**	2.50	5.00	10.0	
71-43-2	Benzene	**51.0**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**45.5**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**49.1**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**51.3**	0.250	0.500	1.00	
75-25-2	Bromoform	**44.9**	0.250	0.500	1.00	
74-83-9	Bromomethane	**36.2**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**51.3**	0.250	0.500	1.00	
78-93-3	2-Butanone	**94.2**	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	**51.1**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**49.9**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**53.6**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**49.2**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**48.5**	0.250	0.500	1.00	
75-00-3	Chloroethane	**45.2**	0.500	1.00	2.00	
67-66-3	Chloroform	**48.0**	0.250	0.500	1.00	
74-87-3	Chloromethane	**42.6**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**45.4**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**46.9**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**51.7**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**49.2**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**47.9**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**49.0**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**47.1**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**45.9**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**47.1**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.4**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**48.0**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**45.2**	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	**50.2**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**50.1**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**49.2**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**49.8**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**46.4**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**47.6**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**51.1**	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	**49.8**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**54.9**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K15002-BSD1	File ID:	1115LCD1.D
Sampled:		Prepared:		Analyzed:	11/15/12 17:49
Solids:		Preparation:	5030B	Dilution:	

Batch:	2K15002	Sequence:	2K32002	Calibration:	2291001	Instrument:	MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**86.5**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**52.0**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**51.2**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**47.1**	0.500	1.00	2.00	
91-20-3	Naphthalene	**42.3**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**95.5**	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	**48.1**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**47.6**	0.250	0.500	1.00	
100-42-5	Styrene	**51.4**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**45.9**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**50.4**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**45.9**	0.250	0.500	1.00	
108-88-3	Toluene	**49.4**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**47.9**	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	**50.1**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**48.0**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**46.4**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**46.6**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**49.9**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**47.5**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**49.2**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**36.5**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**150**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.48	98.3	75 - 120	
Dibromofluoromethane	30.00	29.91	99.7	85 - 115	
1,2-Dichloroethane-d4	30.00	31.68	106	70 - 120	
Toluene-d8	30.00	29.96	99.9	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K15009-BLK1 File ID: 1115BLKE.D

Sampled: Prepared: Analyzed: 11/15/12 20:35

Solids: Preparation: 5030B Dilution:

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K15009-BLK1 File ID: 1115BLKE.D

Sampled: Prepared: Analyzed: 11/15/12 20:35

Solids: Preparation: 5030B Dilution:

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.00	93.3	75 - 120	
Dibromofluoromethane	30.00	28.96	96.5	85 - 115	
1,2-Dichloroethane-d4	30.00	31.55	105	70 - 120	
Toluene-d8	30.00	30.02	100	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K15009-BS1 File ID: 1115LCSE.D

Sampled: Prepared: Analyzed: 11/15/12 19:12

Solids: Preparation: 5030B Dilution:

Batch: 2K15009 Sequence: 2K32103 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**78.4**	2.50	5.00	10.0	Y
71-43-2	Benzene	**53.6**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**46.2**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**50.2**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**52.3**	0.250	0.500	1.00	
75-25-2	Bromoform	**46.0**	0.250	0.500	1.00	
74-83-9	Bromomethane	**43.7**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**53.2**	0.250	0.500	1.00	
78-93-3	2-Butanone	**96.6**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**52.7**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**51.6**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**56.2**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**52.2**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**50.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**45.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**48.7**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.2**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**46.0**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**46.6**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**54.2**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**51.2**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**49.3**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**48.2**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**46.5**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**46.3**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**47.3**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**49.0**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**49.6**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**45.9**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**53.2**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**51.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**51.2**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**50.8**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**51.6**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**46.6**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**50.0**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**51.9**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**49.8**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.5**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**59.9**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K15009-BS1 | File ID: 1115LCSE.D

Sampled: | Prepared: | Analyzed: 11/15/12 19:12

Solids: | Preparation: 5030B | Dilution:

Batch: 2K15009 | Sequence: 2K32103 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**91.0**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**54.4**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**52.9**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**49.2**	0.500	1.00	2.00	
91-20-3	Naphthalene	**46.7**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**98.5**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**50.3**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**48.2**	0.250	0.500	1.00	
100-42-5	Styrene	**53.3**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**45.9**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**52.3**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**48.4**	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	**51.3**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**51.4**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**51.4**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**49.9**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**48.5**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**49.9**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**53.1**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**48.0**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**49.6**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**38.9**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**156**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.29	97.6	75 - 120	
Dibromofluoromethane	30.00	29.68	98.9	85 - 115	
1,2-Dichloroethane-d4	30.00	31.50	105	70 - 120	
Toluene-d8	30.00	29.68	98.9	85 - 120	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN2.D	Injection Date:	10/12/12
Instrument ID:	MS-VOA5	Injection Time:	14:29
Sequence:	2J29101	Lab Sample ID:	2J29101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	26.6	PASS
75	30 - 60% of 95	50.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.98	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	75.5	PASS
175	5 - 9% of 174	7.42	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	6.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN3.D	Injection Date:	10/16/12
Instrument ID:	MS-VOA5	Injection Time:	13:45
Sequence:	2J29101	Lab Sample ID:	2J29101-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.7	PASS
75	30 - 60% of 95	49.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.69	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.7	PASS
175	5 - 9% of 174	7.11	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.57	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1109TUN1.D	Injection Date:	11/09/12
Instrument ID:	MS-VOA5	Injection Time:	06:32
Sequence:	2K31408	Lab Sample ID:	2K31408-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.7	PASS
75	30 - 60% of 95	47.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.82	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.9	PASS
175	5 - 9% of 174	7.79	PASS
176	95 - 101% of 174	98.5	PASS
177	5 - 9% of 176	6.56	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1113TUN1.D	Injection Date:	11/13/12
Instrument ID:	MS-VOA5	Injection Time:	08:47
Sequence:	2K31905	Lab Sample ID:	2K31905-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.5	PASS
75	30 - 60% of 95	43.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.31	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	95.2	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1115TUN1.D	Injection Date:	11/15/12
Instrument ID:	MS-VOA5	Injection Time:	06:12
Sequence:	2K32002	Lab Sample ID:	2K32002-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.5	PASS
75	30 - 60% of 95	49.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.05	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76.6	PASS
175	5 - 9% of 174	8.26	PASS
176	95 - 101% of 174	95.4	PASS
177	5 - 9% of 176	7.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1115TUNE.D	Injection Date:	11/15/12
Instrument ID:	MS-VOA5	Injection Time:	18:16
Sequence:	2K32103	Lab Sample ID:	2K32103-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.9	PASS
75	30 - 60% of 95	49.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.11	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	75.4	PASS
175	5 - 9% of 174	8.03	PASS
176	95 - 101% of 174	99.2	PASS
177	5 - 9% of 176	6.66	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29101	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J29101-TUN1	1012TUN2.D	10/12/12 14:29
Cal Standard	2J29101-CAL1	1012CAL1.D	10/12/12 15:24
Cal Standard	2J29101-CAL2	1012CAL2.D	10/12/12 15:52
Cal Standard	2J29101-CAL3	1012CAL3.D	10/12/12 16:20
Cal Standard	2J29101-CAL4	1012CAL4.D	10/12/12 16:48
Cal Standard	2J29101-CAL5	1012CAL5.D	10/12/12 17:15
Cal Standard	2J29101-CAL6	1012CAL6.D	10/12/12 17:43
Cal Standard	2J29101-CAL7	1012CAL7.D	10/12/12 18:11
Cal Standard	2J29101-CAL8	1012CAL8.D	10/12/12 18:38
Cal Standard	2J29101-CAL9	1012CAL9.D	10/12/12 19:06
Initial Cal Check	2J29101-ICV2	1012ICV2.D	10/12/12 20:29
MS Tune	2J29101-TUN2	1012TUN3.D	10/16/12 13:45
Initial Cal Check	2J29101-ICV3	1012ICV3.D	10/16/12 14:13

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31408-TUN1	1109TUN1.D	11/09/12 06:32
Calibration Check	2K31408-CCV1	1109CCV1.D	11/09/12 07:01
LCS	2K09002-BS1	1109LCS1.D	11/09/12 07:29
Blank	2K09002-BLK1	1109BLK1.D	11/09/12 08:52
GW8240-TB	1211066-13	1106613.D	11/09/12 13:03
GW8241-TB	1211074-07	1107407.D	11/09/12 13:58

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31905	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31905-TUN1	1113TUN1.D	11/13/12 08:47
Calibration Check	2K31905-CCV1	1113CCV1.D	11/13/12 09:16
LCS	2K13009-BS1	1113LCS1.D	11/13/12 09:44
Blank	2K13009-BLK1	1113BLK1.D	11/13/12 11:08
GW0829	1211066-07	1106607.D	11/13/12 12:59
GW0858	1211066-09	1106609.D	11/13/12 13:27
GW0859	1211066-11	1106611.D	11/13/12 13:54
GW0773	1211066-05	1106605.D	11/13/12 15:45
GW0772	1211074-01	1107401.D	11/13/12 16:13
GW0828	1211074-03	1107403D.D	11/13/12 16:41
GW0830	1211074-05	1107405.D	11/13/12 17:09
GW0761	1211066-01	1106601D.D	11/13/12 19:00
GW0765	1211066-03	1106603D.D	11/13/12 19:28
GW0773	2K13009-MS1	1106605M.D	11/13/12 19:55
GW0773	2K13009-MSD1	1106605S.D	11/13/12 20:23

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32002	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32002-TUN1	1115TUN1.D	11/15/12 06:12
Calibration Check	2K32002-CCV1	1115CCV1.D	11/15/12 06:41
LCS	2K15002-BS1	1115LCS1.D	11/15/12 07:09
Blank	2K15002-BLK1	1115BLK1.D	11/15/12 08:32
GW8062-AB	1211091-05	1109105.D	11/15/12 13:38
GW8242-TB	1211091-06	1109106.D	11/15/12 14:06
LCS Dup	2K15002-BSD1	1115LCD1.D	11/15/12 17:49

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32103	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32103-TUN1	1115TUNE.D	11/15/12 18:16
Calibration Check	2K32103-CCV1	1115CCVE.D	11/15/12 18:44
LCS	2K15009-BS1	1115LCSE.D	11/15/12 19:12
Blank	2K15009-BLK1	1115BLKE.D	11/15/12 20:35
GW0757	1211091-01	1109101D.D	11/16/12 03:03
GW0831	1211091-03	1109103D.D	11/16/12 03:59

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31408-CCV1)			Lab File ID: 1109CCV1.D			Analyzed: 11/09/12 07:01			
Fluorobenzene	1288498	7.6	1190594	7.62	108	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	461027	10.74	471003	10.76	98	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	492310	13.14	335738	13.15	147	50 - 200	-0.0100	+/-0.50	
LCS (2K09002-BS1)			Lab File ID: 1109LCS1.D			Analyzed: 11/09/12 07:29			
Fluorobenzene	1272964	7.6	1288498	7.6	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	449136	10.74	461027	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	496115	13.14	492310	13.14	101	50 - 200	0.0000	+/-0.50	
Blank (2K09002-BLK1)			Lab File ID: 1109BLK1.D			Analyzed: 11/09/12 08:52			
Fluorobenzene	1371101	7.59	1288498	7.6	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	510010	10.74	461027	10.74	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	509258	13.14	492310	13.14	103	50 - 200	0.0000	+/-0.50	
GW8240-TB (1211066-13)			Lab File ID: 1106613.D			Analyzed: 11/09/12 13:03			
Fluorobenzene	1336432	7.6	1288498	7.6	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	505020	10.75	461027	10.74	110	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	494846	13.14	492310	13.14	101	50 - 200	0.0000	+/-0.50	
GW8241-TB (1211074-07)			Lab File ID: 1107407.D			Analyzed: 11/09/12 13:58			
Fluorobenzene	1359235	7.6	1288498	7.6	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	515790	10.74	461027	10.74	112	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	495831	13.15	492310	13.14	101	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31905	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31905-CCV1)			Lab File ID: 1113CCV1.D			Analyzed: 11/13/12 09:16			
Fluorobenzene	1213298	7.6	1190594	7.62	102	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	428250	10.74	471003	10.76	91	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	444632	13.14	335738	13.15	132	50 - 200	-0.0100	+/-0.50	
LCS (2K13009-BS1)			Lab File ID: 1113LCS1.D			Analyzed: 11/13/12 09:44			
Fluorobenzene	1247559	7.59	1213298	7.6	103	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	419850	10.74	428250	10.74	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	455180	13.13	444632	13.14	102	50 - 200	-0.0100	+/-0.50	
Blank (2K13009-BLK1)			Lab File ID: 1113BLK1.D			Analyzed: 11/13/12 11:08			
Fluorobenzene	1301002	7.59	1213298	7.6	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	488488	10.74	428250	10.74	114	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	410721	13.13	444632	13.14	92	50 - 200	-0.0100	+/-0.50	
GW0829 (1211066-07)			Lab File ID: 1106607.D			Analyzed: 11/13/12 12:59			
Fluorobenzene	1305584	7.59	1213298	7.6	108	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	496879	10.74	428250	10.74	116	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	402140	13.14	444632	13.14	90	50 - 200	0.0000	+/-0.50	
GW0858 (1211066-09)			Lab File ID: 1106609.D			Analyzed: 11/13/12 13:27			
Fluorobenzene	1317884	7.59	1213298	7.6	109	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	496679	10.74	428250	10.74	116	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	401054	13.14	444632	13.14	90	50 - 200	0.0000	+/-0.50	
GW0859 (1211066-11)			Lab File ID: 1106611.D			Analyzed: 11/13/12 13:54			
Fluorobenzene	1142382	7.6	1213298	7.6	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	460444	10.74	428250	10.74	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	302061	13.14	444632	13.14	68	50 - 200	0.0000	+/-0.50	
GW0773 (1211066-05)			Lab File ID: 1106605.D			Analyzed: 11/13/12 15:45			
Fluorobenzene	1312194	7.59	1213298	7.6	108	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	489846	10.74	428250	10.74	114	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	405234	13.13	444632	13.14	91	50 - 200	-0.0100	+/-0.50	
GW0772 (1211074-01)			Lab File ID: 1107401.D			Analyzed: 11/13/12 16:13			
Fluorobenzene	1300758	7.59	1213298	7.6	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	483511	10.74	428250	10.74	113	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	386538	13.14	444632	13.14	87	50 - 200	0.0000	+/-0.50	
GW0828 (1211074-03)			Lab File ID: 1107403D.D			Analyzed: 11/13/12 16:41			
Fluorobenzene	1283034	7.59	1213298	7.6	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	470350	10.74	428250	10.74	110	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	401810	13.13	444632	13.14	90	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31905	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0830 (1211074-05)			Lab File ID: 1107405.D			Analyzed: 11/13/12 17:09			
Fluorobenzene	1283023	7.59	1213298	7.6	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	489029	10.74	428250	10.74	114	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	316540	13.13	444632	13.14	71	50 - 200	-0.0100	+/-0.50	
GW0761 (1211066-01)			Lab File ID: 1106601D.D			Analyzed: 11/13/12 19:00			
Fluorobenzene	1146926	7.59	1213298	7.6	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	471404	10.74	428250	10.74	110	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	302761	13.13	444632	13.14	68	50 - 200	-0.0100	+/-0.50	
GW0765 (1211066-03)			Lab File ID: 1106603D.D			Analyzed: 11/13/12 19:28			
Fluorobenzene	1149756	7.59	1213298	7.6	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	466195	10.73	428250	10.74	109	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	326828	13.14	444632	13.14	74	50 - 200	0.0000	+/-0.50	
Matrix Spike (2K13009-MS1)			Lab File ID: 1106605M.D			Analyzed: 11/13/12 19:55			
Fluorobenzene	1233620	7.59	1213298	7.6	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	492810	10.73	428250	10.74	115	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	424540	13.14	444632	13.14	95	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (2K13009-MSD1)			Lab File ID: 1106605S.D			Analyzed: 11/13/12 20:23			
Fluorobenzene	1236820	7.59	1213298	7.6	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	484780	10.73	428250	10.74	113	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	424081	13.14	444632	13.14	95	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32002	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32002-CCV1)			Lab File ID: 1115CCV1.D			Analyzed: 11/15/12 06:41			
Fluorobenzene	1202786	7.59	1190594	7.62	101	50 - 200	-0.0300	+/-0.50	
Chlorobenzene-d5	475052	10.74	471003	10.76	101	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	407706	13.14	335738	13.15	121	50 - 200	-0.0100	+/-0.50	
LCS (2K15002-BS1)			Lab File ID: 1115LCS1.D			Analyzed: 11/15/12 07:09			
Fluorobenzene	1243281	7.59	1202786	7.59	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	483819	10.74	475052	10.74	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	406041	13.14	407706	13.14	100	50 - 200	0.0000	+/-0.50	
Blank (2K15002-BLK1)			Lab File ID: 1115BLK1.D			Analyzed: 11/15/12 08:32			
Fluorobenzene	1165433	7.6	1202786	7.59	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	461878	10.74	475052	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	299130	13.14	407706	13.14	73	50 - 200	0.0000	+/-0.50	
GW8062-AB (1211091-05)			Lab File ID: 1109105.D			Analyzed: 11/15/12 13:38			
Fluorobenzene	1145226	7.6	1202786	7.59	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	454463	10.74	475052	10.74	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	297512	13.14	407706	13.14	73	50 - 200	0.0000	+/-0.50	
GW8242-TB (1211091-06)			Lab File ID: 1109106.D			Analyzed: 11/15/12 14:06			
Fluorobenzene	1135394	7.6	1202786	7.59	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	454462	10.74	475052	10.74	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	296485	13.15	407706	13.14	73	50 - 200	0.0100	+/-0.50	
LCS Dup (2K15002-BSD1)			Lab File ID: 1115LCD1.D			Analyzed: 11/15/12 17:49			
Fluorobenzene	1184914	7.59	1202786	7.59	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	474705	10.74	475052	10.74	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	398563	13.14	407706	13.14	98	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32103	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32103-CCV1)			Lab File ID: 1115CCVE.D			Analyzed: 11/15/12 18:44			
Fluorobenzene	1193894	7.59	1190594	7.62	100	50 - 200	-0.0300	+/-0.50	
Chlorobenzene-d5	472045	10.74	471003	10.76	100	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	399289	13.14	335738	13.15	119	50 - 200	-0.0100	+/-0.50	
LCS (2K15009-BS1)			Lab File ID: 1115LCSE.D			Analyzed: 11/15/12 19:12			
Fluorobenzene	1212419	7.59	1193894	7.59	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	478188	10.74	472045	10.74	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	412340	13.14	399289	13.14	103	50 - 200	0.0000	+/-0.50	
Blank (2K15009-BLK1)			Lab File ID: 1115BLKE.D			Analyzed: 11/15/12 20:35			
Fluorobenzene	1168023	7.59	1193894	7.59	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	459133	10.74	472045	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	305134	13.14	399289	13.14	76	50 - 200	0.0000	+/-0.50	
GW0757 (1211091-01)			Lab File ID: 1109101D.D			Analyzed: 11/16/12 03:03			
Fluorobenzene	1148987	7.59	1193894	7.59	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	446583	10.74	472045	10.74	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	309683	13.14	399289	13.14	78	50 - 200	0.0000	+/-0.50	
GW0831 (1211091-03)			Lab File ID: 1109103D.D			Analyzed: 11/16/12 03:59			
Fluorobenzene	1130323	7.59	1193894	7.59	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	462402	10.74	472045	10.74	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	321266	13.14	399289	13.14	80	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.2093107~~	2	~~0.1838394~~	4	0.137999	10	0.1450872	20	0.1358526	100	0.1292078
Acrolein	2.508	3.822066E-02	5.015	3.074716E-02	10.03	3.095516E-02	25.08	3.189976E-02	50.15	2.502974E-02	250.8	0.0301772
Acrylonitrile	2.498	0.1037199	4.997	0.1020165	9.994	0.1058176	24.98	0.1106814	49.97	0.1079525	249.8	0.1064949
Benzene	0.5	1.028388	1	0.9816032	2	0.9599322	5	1.024188	10	1.01676	50	0.9648804
Bromobenzene	0.5	1.134099	1	1.100652	2	1.0305	5	1.086311	10	0.980951	50	0.8661369
Bromochloromethane	0.5	0.1706723	1	0.1785507	2	0.1790381	5	0.1783228	10	0.1720989	50	0.168626
Tert-Amyl Methyl Ether	0.5	0.7139939	1	0.629713	2	0.6864908	5	0.7518886	10	0.7204948	50	0.7347454
Bromodichloromethane	0.5	0.3318081	1	0.3395327	2	0.3547819	5	0.3893821	10	0.3822455	50	0.3927084
Bromoform	0.5	0.4969803	1	0.4118617	2	0.4067888	5	0.4729397	10	0.5098658	50	0.594906
Bromomethane	0.5	0.2813787	1	0.2582419	2	0.2162678	5	0.2154689	10	0.2282273	50	0.213425
Bromofluorobenzene	30	0.9075324	35	0.8971084	40	0.9064125	50	0.9009446	60	0.90352	70	0.9208705
n-Butylbenzene	0.5	1.151177	1	1.109212	2	1.094426	5	1.319833	10	1.381655	50	1.4688
2-Butanone	1	~~0.2810418~~	2	0.1631233	4	0.1907209	10	0.2079197	20	0.1927078	100	0.1970593
sec-Butylbenzene	0.5	2.094637	1	2.019257	2	2.051515	5	2.278473	10	2.222431	50	2.15841
tert-Butylbenzene	0.5	1.681985	1	1.600949	2	1.62075	5	1.884469	10	1.807701	50	1.760426
Carbon disulfide	0.5	0.6541316	1	0.6638185	2	0.6061679	5	0.6694927	10	0.6702467	50	0.6484019
Carbon tetrachloride	0.5	0.3031986	1	0.3155144	2	0.3185444	5	0.3424039	10	0.3566006	50	0.3797009
Chlorobenzene	0.5	1.684174	1	1.561415	2	1.517603	5	1.680945	10	1.647245	50	1.568832
Chloroethane	0.5	0.2022361	1	0.1907017	2	0.19219	5	0.2063172	10	0.1882053	50	0.1926207
Chloroform	0.5	0.6796314	1	0.5398314	2	0.5025939	5	0.5404865	10	0.5210218	50	0.5192739
2-Chloroethyl vinyl ether	0.9975	0.1985602	1.995	0.1580362	3.99	0.1681127	9.975	0.1930318	19.95	0.1880536	99.75	0.1827217
Chloromethane	0.5	0.5070932	1	0.4133419	2	0.3768373	5	0.3936102	10	0.385891	50	0.3773814
1-Chlorohexane	0.5	~~1.225788~~	1	0.9204429	2	0.8347791	5	0.8619435	10	0.770689	50	0.7897108
2-Chlorotoluene	0.5	2.436396	1	2.442797	2	2.109176	5	2.373815	10	2.204853	50	2.026105
4-Chlorotoluene	0.5	2.478694	1	2.411124	2	2.118618	5	2.450232	10	2.361746	50	2.212235
Cyclohexane	0.5	0.4635052	1	0.4073309	2	0.3790632	5	0.42866	10	0.4086563	50	0.4060051
Dibromochloromethane	0.5	0.6491171	1	0.7198563	2	0.67002	5	0.7713199	10	0.7552968	50	0.8202884
1,2-Dibromo-3-chloropropane	0.5	0.1443687	1	0.1479013	2	0.1092794	5	0.1470075	10	0.1440406	50	0.14606
1,2-Dibromoethane (EDB)	0.5	0.8123185	1	0.6479887	2	0.623019	5	0.7139955	10	0.7127572	50	0.6945692
Dibromomethane	0.5	0.2031172	1	0.2114179	2	0.2074405	5	0.2467592	10	0.2230423	50	0.2234644
1,2-Dichlorobenzene	0.5	1.550127	1	1.335107	2	1.349162	5	1.445306	10	1.355715	50	1.253407

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

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	1.659347	1	1.527997	2	1.462632	5	1.537842	10	1.418009	50	1.341542
1,4-Dichlorobenzene	0.5	1.704623	1	1.621969	2	1.435676	5	1.618494	10	1.517991	50	1.472998
Dichlorodifluoromethane	0.5	0.2418851	1	0.2393317	2	0.2325231	5	0.2584256	10	0.3039863	50	0.2970737
1,1-Dichloroethane	0.5	0.5801718	1	0.5292799	2	0.5433214	5	0.5824807	10	0.5674272	50	0.5517154
1,2-Dichloroethane	0.5	0.4577003	1	0.4664608	2	0.4649445	5	0.4986183	10	0.4653561	50	0.4755698
1,1-Dichloroethene	0.5	0.2258182	1	0.2151328	2	0.1973795	5	0.2358991	10	0.2329928	50	0.226227
cis-1,2-Dichloroethene	0.5	0.3485488	1	0.2942823	2	0.278491	5	0.3126759	10	0.3089413	50	0.2947265
trans-1,2-Dichloroethene	0.5	0.3055309	1	0.3056336	2	0.2551001	5	0.2900334	10	0.2690305	50	0.2686659
1,2-Dichloroethene (total)	1	0.3270399	2	0.2999579	4	0.2667955	10	0.3013546	20	0.2889859	100	0.2816962
1,2-Dichloropropane	0.5	0.3515549	1	0.2857946	2	0.3003938	5	0.3462037	10	0.3205553	50	0.3179448
1,3-Dichloropropane	0.5	0.9764418	1	0.9567702	2	1.006722	5	1.102503	10	1.071811	50	1.064477
2,2-Dichloropropane	0.5	0.4627277	1	0.3879821	2	0.3681245	5	0.4188481	10	0.4015827	50	0.4143792
1,1-Dichloropropene	0.5	0.3584481	1	0.3979661	2	0.3595389	5	0.3879962	10	0.3880272	50	0.3832157
cis-1,3-Dichloropropene	0.5	0.4679624	1	0.4134193	2	0.4252091	5	0.4856114	10	0.476467	50	0.481817
trans-1,3-Dichloropropene	0.5	1.087745	1	0.8734273	2	0.9401482	5	1.04063	10	1.025082	50	1.06396
Diisopropyl Ether	0.5	1.656553	1	1.323716	2	1.355187	5	1.462499	10	1.448533	50	1.416893
Ethylbenzene	0.5	2.958304	1	2.712674	2	2.634324	5	2.834619	10	2.75017	50	2.725992
Ethyl tert-Butyl Ether	0.5	1.04404	1	0.9879754	2	0.9619292	5	1.052878	10	1.030574	50	1.036999
Ethyl Methacrylate	0.5	0.8323399	1	0.729102	2	0.7477697	5	0.8346571	10	0.8215563	50	0.8808551
Hexachlorobutadiene	0.5	0.327858	1	0.27678	2	0.2044853	5	0.2287677	10	0.2401323	50	0.2104516
2-Hexanone	1	0.8759393	2	0.5350726	4	0.6107579	10	0.6638047	20	0.6469072	100	0.6363296
Iodomethane	0.5	0.3814601	1	0.3595522	2	0.352467	5	0.4091521	10	0.4336084	50	0.466603
Isopropylbenzene	0.5	2.096854	1	2.039571	2	2.038669	5	2.223489	10	2.156057	50	2.185784
p-Isopropyltoluene	0.5	1.584283	1	1.521244	2	1.404971	5	1.624106	10	1.596767	50	1.722013
Methylene chloride	0.5	0.3533171	1	0.3178362	2	0.2885012	5	0.3208096	10	0.3086809	50	0.2984568
Methyl Acetate	0.5	~~0.4034874~~	1	0.2549139	2	0.2926477	5	0.2820962	10	0.2809176	50	0.2759045
Methylcyclohexane	0.5	0.2939213	1	0.2609766	2	0.2581909	5	0.286672	10	0.2793021	50	0.2830842
Naphthalene	0.5	0.8803116	1	0.6655084	2	0.7034559	5	0.83726	10	0.8517879	50	0.873391
Methyl Methacrylate	0.5	0.4218866	1	0.3140697	2	0.3161786	5	0.3386494	10	0.3366743	50	0.3418622
4-Methyl-2-pentanone	1	0.4233119	2	0.3322446	4	0.3347934	10	0.3563104	20	0.3608402	100	0.3569288
Methyl t-Butyl Ether	0.5	0.6783875	1	0.6749634	2	0.6094749	5	0.6726878	10	0.6621038	50	0.6681816

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2291001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 10/12/12 15:24 10/12/12 19:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	3.263488	1	3.045531	2	2.849074	5	3.308222	10	3.159948	50	2.924052
Styrene	0.5	1.524266	1	1.363255	2	1.434808	5	1.624945	10	1.632284	50	1.722102
1,1,2,2-Tetrachloroethane	0.5	1.104709	1	0.9165126	2	0.921	5	0.9883064	10	0.9455083	50	0.8178914
1,1,1,2-Tetrachloroethane	0.5	0.6827058	1	0.5817603	2	0.5685783	5	0.6867854	10	0.6292395	50	0.6417928
tert-Butyl alcohol	2.5	2.254554E-02	5	1.637166E-02	10	2.132533E-02	25	2.155899E-02	50	2.318905E-02	250	2.262879E-02
Tetrachloroethene	0.5	0.7868965	1	0.7155285	2	0.6774597	5	0.7157279	10	0.6901926	50	0.6780332
Toluene	0.5	1.509645	1	1.488892	2	1.396716	5	1.55292	10	1.475042	50	1.464147
1,2,3-Trichlorobenzene	0.5	0.3755176	1	0.3661866	2	0.3445147	5	0.4011342	10	0.4044343	50	0.3909977
1,2,4-Trichlorobenzene	0.5	0.4722267	1	0.4608244	2	0.4037647	5	0.4728509	10	0.5014627	50	0.4849717
1,1,2-Trichloroethane	0.5	0.6098645	1	0.4990077	2	0.4691162	5	0.526175	10	0.512373	50	0.5147031
1,1,1-Trichloroethane	0.5	0.444173	1	0.4125679	2	0.4039932	5	0.4406439	10	0.4229273	50	0.4301573
Tetrahydrofuran	0.5		1	2.200603E-02	2	1.678959E-02	5	3.064017E-02	10	2.477517E-02	50	2.664395E-02
Trichloroethene	0.5	0.3151192	1	0.3054014	2	0.298117	5	0.3147773	10	0.3008742	50	0.3017606
Trichlorofluoromethane	0.5	0.5168889	1	0.4696856	2	0.4581142	5	0.4884486	10	0.481379	50	0.4732761
1,2,3-Trichloropropane	0.5	0.1645185	1	0.1940294	2	0.2058211	5	0.194572	10	0.206484	50	0.2072864
1,3,5-Trimethylbenzene	0.5	2.080538	1	2.149372	2	1.929088	5	2.251845	10	2.199486	50	2.133291
1,2,4-Trimethylbenzene	0.5	1.697474	1	1.628056	2	1.584926	5	1.869994	10	1.867937	50	1.955528
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2206871	1	0.2292445	2	0.2281858	5	0.2419011	10	0.2319588	50	0.2297067
Vinyl chloride	0.5	0.3213905	1	0.2966557	2	0.2370258	5	0.1823644	10	0.229365	50	0.1869944
m,p-Xylene	1	1.873325	2	2.004391	4	1.92717	10	2.030662	20	1.989148	100	1.95425
o-Xylene	0.5	2.045351	1	1.811181	2	1.877678	5	2.037184	10	1.988475	50	2.052774
Vinyl acetate	0.996	1.021043	1.992	0.9152215	3.984	0.8650078	9.96	0.9646369	19.92	0.9415722	99.62	0.9137966
Xylenes (total)	1.5	1.930667	3	1.939988	6	1.910673	15	2.032836	30	1.988924	150	1.987091
Dibromofluoromethane	30	0.3528567	35	0.3429425	40	0.3432467	50	0.3383209	60	0.3415729	70	0.3422776
1,2-Dichloroethane-d4	30	6.444309E-02	35	6.162721E-02	40	6.201401E-02	50	6.223986E-02	60	6.230871E-02	70	6.209132E-02
Toluene-d8	30	2.287677	35	2.252852	40	2.245046	50	2.203474	60	2.148516	70	2.160796
tert-Amyl alcohol	2.5		5	1.611884E-02	10	0.0162452	25	1.764632E-02	50	1.805149E-02	250	1.781281E-02
tert-Amyl ethyl ether	0.5	0.8325782	1	0.8090635	2	0.775323	5	0.8479465	10	0.8201036	50	0.8272931

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

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	0.1266626	300	0.1231423	400	0.1178324						
Acrolein	501.5	3.545277E-02	752.2	3.651356E-02	1003	3.745221E-02						
Acrylonitrile	499.7	0.1044768	749.6	0.1039993	999.4	0.1003698						
Benzene	100	0.9235232	150	0.8594138	200	0.7849292						
Bromobenzene	100	0.8881735	150	0.8599457	200	0.8316292						
Bromochloromethane	100	0.1667734	150	0.1606741	200	0.1579936						
Tert-Amyl Methyl Ether	100	0.7262016	150	0.6707946	200	0.6177467						
Bromodichloromethane	100	0.3929716	150	0.3702909	200	0.3476311						
Bromoform	100	0.6462845	150	~~0.6617821~~	200	~~0.659788~~						
Bromomethane	100	0.2108286	150	0.2070282	200	0.2060198						
Bromofluorobenzene	30	0.9824568	30	0.9999227	30	0.9994479						
n-Butylbenzene	100	1.523087	150	1.449184	200	1.348779						
2-Butanone	200	0.195438	300	0.1889607	400	0.1844391						
sec-Butylbenzene	100	2.112831	150	1.921296	200	1.738243						
tert-Butylbenzene	100	1.760964	150	1.674096	200	1.555494						
Carbon disulfide	100	0.6413098	150	0.6082213	200	0.6090515						
Carbon tetrachloride	100	0.3840762	150	0.3669635	200	0.3516571						
Chlorobenzene	100	1.541911	150	1.466087	200	1.381431						
Chloroethane	100	0.1836753	150	0.1742626	200	0.1667518						
Chloroform	100	0.5096551	150	0.4704461	200	0.4420506						
2-Chloroethyl vinyl ether	199.5	0.1804314	299.2	0.1684203	399	0.1572394						
Chloromethane	100	0.3578709	150	0.3365053	200	0.3209209						
1-Chlorohexane	100	0.7767257	150	0.7396203	200	0.7120631						
2-Chlorotoluene	100	1.902054	150	1.764556	200	1.587876						
4-Chlorotoluene	100	2.141204	150	1.983296	200	1.805777						
Cyclohexane	100	0.4070208	150	0.3891092	200	0.3732226						
Dibromochloromethane	100	0.8453414	150	0.8429101	200	0.8141642						
1,2-Dibromo-3-chloropropane	100	0.1572772	150	0.1614128	200	0.1546557						
1,2-Dibromoethane (EDB)	100	0.6986333	150	0.6857349	200	0.6688842						
Dibromomethane	100	0.2208477	150	0.2065651	200	0.197802						
1,2-Dichlorobenzene	100	1.251456	150	1.217215	200	1.144362						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

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	1.336381	150	1.307302	200	1.210477						
1,4-Dichlorobenzene	100	1.465122	150	1.404034	200	1.301508						
Dichlorodifluoromethane	100	0.2883207	150	0.2679091	200	0.2564453						
1,1-Dichloroethane	100	0.5468606	150	0.5220661	200	0.5052939						
1,2-Dichloroethane	100	0.4473436	150	0.4127259	200	0.3872583						
1,1-Dichloroethene	100	0.2225573	150	0.2100764	200	0.2138721						
cis-1,2-Dichloroethene	100	0.2981693	150	0.2856926	200	0.274881						
trans-1,2-Dichloroethene	100	0.2624296	150	0.2483985	200	0.2420407						
1,2-Dichloroethene (total)	200	0.2802994	300	0.2670456	400	0.2584608						
1,2-Dichloropropane	100	0.3118958	150	0.2980104	200	0.2831874						
1,3-Dichloropropane	100	1.067553	150	1.032431	200	0.9749471						
2,2-Dichloropropane	100	0.4025817	150	0.3756275	200	0.3526653						
1,1-Dichloropropene	100	0.3776621	150	0.3571731	200	0.3353771						
cis-1,3-Dichloropropene	100	0.4757073	150	0.4493707	200	0.4159489						
trans-1,3-Dichloropropene	100	1.017311	150	0.9559691	200	0.8866128						
Diisopropyl Ether	100	1.342089	150	1.225994	200	1.115844						
Ethylbenzene	100	2.576414	150	2.335666	200	2.063086						
Ethyl tert-Butyl Ether	100	1.001227	150	0.9096821	200	0.8316089						
Ethyl Methacrylate	100	0.9116472	150	0.8839081	200	0.8561447						
Hexachlorobutadiene	100	0.2507218	150	0.2632424	200	0.2650239						
2-Hexanone	200	0.6392215	300	0.6188601	400	0.5808973						
Iodomethane	100	0.4558964	150	0.4324466	200	0.4359104						
Isopropylbenzene	100	2.110598	150	1.930801	200	1.764106						
p-Isopropyltoluene	100	1.726902	150	1.613216	200	1.476111						
Methylene chloride	100	0.2911459	150	0.2911504	200	0.2826383						
Methyl Acetate	100	0.2647661	150	0.264273	200	0.2523324						
Methylcyclohexane	100	0.2888642	150	0.2710586	200	0.2594319						
Naphthalene	100	0.9609156	150	1.027227	200	0.9662239						
Methyl Methacrylate	100	0.3408883	150	0.3196133	200	0.3028905						
4-Methyl-2-pentanone	200	0.3444019	300	0.3182518	400	0.2882798						
Methyl t-Butyl Ether	100	0.6449987	150	0.607574	200	0.5808785						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

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	2.742988	150	2.4168	200	2.100691						
Styrene	100	1.722777	150	1.617389	200	1.512023						
1,1,2,2-Tetrachloroethane	100	0.8059682	150	0.7844217	200	0.7425934						
1,1,1,2-Tetrachloroethane	100	0.6655796	150	0.662686	200	0.6518395						
tert-Butyl alcohol	500	2.189285E-02	750	2.152677E-02	1000	2.206532E-02						
Tetrachloroethene	100	0.7022279	150	0.714417	200	0.7136411						
Toluene	100	1.427433	150	1.367729	200	1.304066						
1,2,3-Trichlorobenzene	100	0.441067	150	0.4788034	200	0.4724479						
1,2,4-Trichlorobenzene	100	0.5401172	150	0.5816383	200	0.5677333						
1,1,2-Trichloroethane	100	0.517336	150	0.5117101	200	0.4934725						
1,1,1-Trichloroethane	100	0.4290463	150	0.4029258	200	0.3865336						
Tetrahydrofuran	100	2.671989E-02	150	2.566542E-02	200	2.647819E-02						
Trichloroethene	100	0.2872951	150	0.2697105	200	0.2573622						
Trichlorofluoromethane	100	0.4694212	150	0.4413153	200	0.4223437						
1,2,3-Trichloropropane	100	0.2087153	150	0.2066379	200	0.2038684						
1,3,5-Trimethylbenzene	100	2.053956	150	1.864038	200	1.691768						
1,2,4-Trimethylbenzene	100	1.899135	150	1.78786	200	1.608316						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2283044	150	0.2158549	200	0.2123486						
Vinyl chloride	100	0.1981654	150	~~0.1639443~~	200	~~0.1466384~~						
m,p-Xylene	200	1.741986	300	1.492592	400	1.308365						
o-Xylene	100	1.940067	150	1.777874	200	1.617302						
Vinyl acetate	199.2	0.8136057	298.9	0.6943068	398.5	~~0.6040652~~						
Xylenes (total)	300	1.808013	450	1.587687	600	1.411344						
Dibromofluoromethane	30	0.3393876	30	0.342012	30	0.3453447						
1,2-Dichloroethane-d4	30	6.075024E-02	30	6.202381E-02	30	6.320841E-02						
Toluene-d8	30	2.316447	30	2.435615	30	2.422273						
tert-Amyl alcohol	500	1.824924E-02	750	1.817118E-02	1000	1.797343E-02						
tert-Amyl ethyl ether	100	0.8042518	150	0.7298337	200	0.6696996						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1308263	7.169947	3.421429	0.1107739			15	
Acrolein	3.293869E-02	13.03005	3.321111	0.1019839			15	
Acrylonitrile	0.1050587	2.955386	4.224444	0.1237894			15	
Benzene	0.9492909	8.620587	7.344444	7.245944E-02			15	
Bromobenzene	0.9753776	12.01047	12.10889	0.0144915			15	
Bromochloromethane	0.1703055	4.507879	6.424444	8.158399E-02			15	
Tert-Amyl Methyl Ether	0.6946744	6.768849	7.543333	6.727492E-02			15	
Bromodichloromethane	0.3668169	6.534773	8.341111	4.022106E-02			15	
Bromoform	0.505661	17.59172	11.51143	2.797771E-02		0.9999593	SPCC (0.1)	
Bromomethane	0.2263207	11.54685	2.575555	0.2053272			15	
Bromofluorobenzene	0.9353573	4.777822	11.95	2.025372E-02			15	
n-Butylbenzene	1.316239	12.26201	13.54556	4.202676E-02			15	
2-Butanone	0.1900461	6.781548	5.87	1.747658E-02			15	
sec-Butylbenzene	2.066344	7.876697	13.00556	3.835336E-02			15	
tert-Butylbenzene	1.705204	6.245025	12.77111	2.030234E-02			15	
Carbon disulfide	0.6412047	4.171366	4.406667	0.1140858			15	
Carbon tetrachloride	0.3465177	8.348462	7.311111	8.229499E-02			15	
Chlorobenzene	1.561071	6.428212	10.79111	3.598659E-02			SPCC (0.3)	
Chloroethane	0.1885512	6.604544	2.696667	0.1857631			15	
Chloroform	0.524999	12.60127	6.401111	5.547756E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1771786	8.444776	8.712222	4.758714E-02			15	
Chloromethane	0.3854947	13.93974	2.037778	0.2150863			SPCC (0.1)	
1-Chlorohexane	0.8007468	8.500716	10.7675	4.454654E-02			15	
2-Chlorotoluene	2.094181	14.4823	12.33444	4.387552E-02			15	
4-Chlorotoluene	2.218103	10.33822	12.39444	4.712388E-02			15	
Cyclohexane	0.4069526	6.67736	7.241111	4.219525E-02			15	
Dibromochloromethane	0.7653683	9.53649	10.02	1.919963E-02			15	
1,2-Dibromo-3-chloropropane	0.1457781	10.28602	14.13889	1.933973E-02			15	
1,2-Dibromoethane (EDB)	0.6953223	7.645976	10.23444	5.380092E-02			15	
Dibromomethane	0.2156063	6.867565	8.275556	6.274539E-02			15	
1,2-Dichlorobenzene	1.322429	9.319326	13.49556	3.668195E-02			15	
1,3-Dichlorobenzene	1.422392	9.765556	13.08889	4.337518E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.504713	8.327264	13.18111	4.258517E-02			15	
Dichlorodifluoromethane	0.2651001	9.859331	1.845556	0.2856368			15	
1,1-Dichloroethane	0.5476241	4.780995	5.418889	5.933679E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4528864	7.432713	7.172222	6.209681E-02			15	
1,1-Dichloroethene	0.219995	5.502211	3.871111	0.1550187			CCC (20)	
cis-1,2-Dichloroethene	0.299601	7.424506	6.144444	8.827927E-02			15	
trans-1,2-Dichloroethene	0.2718737	8.657721	5.04	9.962629E-02			15	
1,2-Dichloroethene (total)	0.2857373	7.486324	6.144444	8.827927E-02			15	
1,2-Dichloropropane	0.3128379	7.734725	8.164444	6.216083E-02			CCC (20)	
1,3-Dichloropropane	1.028184	5.028358	9.767778	6.969679E-02			15	
2,2-Dichloropropane	0.3982799	8.171856	6.252222	7.058938E-02			15	
1,1-Dichloropropene	0.3717116	5.417463	7.192222	6.275141E-02			15	
cis-1,3-Dichloropropene	0.4546126	6.453357	8.923333	5.284769E-02			15	
trans-1,3-Dichloropropene	0.9878761	7.795565	9.402222	4.663104E-02			15	
Diisopropyl Ether	1.371923	11.15829	5.802222	7.784852E-02			15	
Ethylbenzene	2.62125	10.36353	10.94444	4.993597E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.9841015	7.438849	6.275556	8.592307E-02			15	
Ethyl Methacrylate	0.8331089	7.325389	9.6	4.887049E-02			15	
Hexachlorobutadiene	0.2519403	14.9377	15.49778	2.865142E-02			15	
2-Hexanone	0.64531	14.68557	9.708889	6.396247E-02			15	
Iodomethane	0.4141218	9.941711	4.062222	0.1064841			15	
Isopropylbenzene	2.060659	6.880268	11.84444	4.914158E-02			15	
p-Isopropyltoluene	1.585513	6.678641	13.14444	0.0373946			15	
Methylene chloride	0.3058374	7.270345	4.355556	0.121083			15	
Methyl Acetate	0.2709814	5.229151	4.21	0.1259766			15	
Methylcyclohexane	0.2757224	4.97078	8.495555	6.049599E-02			15	
Naphthalene	0.8628979	13.76505	15.36	1.759729E-02			15	
Methyl Methacrylate	0.3369681	10.31889	8.306667	5.808503E-02			15	
4-Methyl-2-pentanone	0.3461514	10.63507	8.851111	0.0427818			15	
Methyl t-Butyl Ether	0.6443611	5.590097	5.03	1.761348E-02			15	
n-Propylbenzene	2.867866	13.93909	12.25333	3.966289E-02			15	
Styrene	1.57265	7.853373	11.41889	2.195589E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.891879	12.88279	11.76778	5.755305E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6412186	6.505399	10.83444	4.503166E-02			15	
tert-Butyl alcohol	2.145603E-02	9.323035	3.998889	8.342015E-02			15	
Tetrachloroethene	0.7104583	4.599011	10.13333	5.271432E-02			15	
Toluene	1.442954	5.337669	9.4	4.407662E-03			CCC (20)	
1,2,3-Trichlorobenzene	0.4083448	11.43467	15.64778	2.504416E-02			15	
1,2,4-Trichlorobenzene	0.4983989	11.29925	15.21222	2.863628E-02			15	
1,1,2-Trichloroethane	0.5170842	7.469048	9.554445	5.725395E-02			15	
1,1,1-Trichloroethane	0.4192187	4.558507	6.966667	7.320109E-02			15	
Tetrahydrofuran	0.0249648	16.34235	6.61	0.0180108	0.9995332		0.995	
Trichloroethene	0.2944908	6.692227	8.115555	6.266205E-02			15	
Trichlorofluoromethane	0.4689858	5.793276	3.15	0.1588719			15	
1,2,3-Trichloropropane	0.1991037	7.060199	11.89111	0.0147569			15	
1,3,5-Trimethylbenzene	2.039265	8.795024	12.43333	4.248275E-02			15	
1,2,4-Trimethylbenzene	1.766581	7.92246	12.80222	4.014229E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2264658	3.944156	3.947778	0.2110514			15	
Vinyl chloride	0.2359945	23.03148	2.175714	0.2462423	0.9988621		CCC (20)	*
m,p-Xylene	1.813543	13.97709	11.05778	5.889907E-02			15	
o-Xylene	1.905321	7.777756	11.44778	3.791632E-02			15	
Vinyl acetate	0.8911488	11.32924	5.49875	6.399563E-02			15	
Xylenes (total)	1.844136	11.38244	11.44778	3.791632E-02			15	
Dibromofluoromethane	0.3431068	1.223972	6.572222	6.593489E-02			15	
1,2-Dichloroethane-d4	6.230074E-02	1.652363	7.081111	4.893599E-02			15	
Toluene-d8	2.274744	4.528986	9.322222	4.878895E-02			15	
tert-Amyl alcohol	1.753356E-02	4.883647	6.7775	6.889731E-02			15	
tert-Amyl ethyl ether	0.790677	7.256792	8.443333	5.558737E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	189.2	0.1308263	0.1237894		-5.4	20
Benzene	A	100.0	86.88	0.9492909	0.8247049		-13.1	20
Bromobenzene	A	100.0	81.33	0.9753776	0.7932768		-18.7	20
Bromochloromethane	A	100.0	86.26	0.1703055	0.146908		-13.7	20
Bromodichloromethane	A	100.0	91.88	0.3668169	0.3370203		-8.1	20
Bromoform	Q	100.0	93.61	0.505661	0.5989334	0.1	-6.4	20
Bromomethane	A	100.0	83.82	0.2263207	0.1897067		-16.2	20
n-Butylbenzene	A	100.0	103.7	1.316239	1.364641		3.7	20
2-Butanone	A	200.0	200.3	0.1900461	0.1903028		0.1	20
sec-Butylbenzene	A	100.0	90.33	2.066344	1.866628		-9.7	20
tert-Butylbenzene	A	100.0	90.30	1.705204	1.539855		-9.7	20
Carbon disulfide	A	100.0	87.62	0.6412047	0.5617964		-12.4	20
Carbon tetrachloride	A	100.0	95.73	0.3465177	0.3317074		-4.3	20
Chlorobenzene	A	100.0	90.63	1.561071	1.414764	0.3	-9.4	20
Chloroethane	A	100.0	83.58	0.1885512	0.1575968		-16.4	20
Chloroform	A	100.0	83.87	0.524999	0.4403183		-16.1	20
Chloromethane	A	100.0	80.20	0.3854947	0.3091732	0.1	-19.8	20
2-Chlorotoluene	A	100.0	81.73	2.094181	1.711597		-18.3	20
4-Chlorotoluene	A	100.0	85.16	2.218103	1.888959		-14.8	20
Dibromochloromethane	A	100.0	101.3	0.7653683	0.7754495		1.3	20
1,2-Dibromo-3-chloropropane	A	100.0	99.91	0.1457781	0.1456403		-0.09	20
1,2-Dibromoethane (EDB)	A	100.0	91.92	0.6953223	0.6391628		-8.1	20
Dibromomethane	A	100.0	88.98	0.2156063	0.1918446		-11.0	20
1,2-Dichlorobenzene	A	100.0	86.31	1.322429	1.141337		-13.7	20
1,3-Dichlorobenzene	A	100.0	84.66	1.422392	1.204134		-15.3	20
1,4-Dichlorobenzene	A	100.0	87.81	1.504713	1.321271		-12.2	20
Dichlorodifluoromethane	A	100.0	91.99	0.2651001	0.2438581		-8.0	20
1,1-Dichloroethane	A	100.0	88.30	0.5476241	0.4835784	0.1	-11.7	20
1,2-Dichloroethane	A	100.0	85.78	0.4528864	0.3884664		-14.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	87.91	0.219995	0.1933946		-12.1	20
cis-1,2-Dichloroethene	A	100.0	87.31	0.299601	0.2615895		-12.7	20
trans-1,2-Dichloroethene	A	100.0	85.14	0.2718737	0.2314696		-14.9	20
1,2-Dichloropropane	A	100.0	88.52	0.3128379	0.2769166		-11.5	20
1,3-Dichloropropane	A	100.0	94.08	1.028184	0.9672779		-5.9	20
2,2-Dichloropropane	A	100.0	83.80	0.3982799	0.3337392		-16.2	20
1,1-Dichloropropene	A	100.0	88.15	0.3717116	0.3276608		-11.9	20
cis-1,3-Dichloropropene	A	100.0	91.20	0.4546126	0.4146255		-8.8	20
trans-1,3-Dichloropropene	A	100.0	92.25	0.9878761	0.9112792		-7.8	20
Ethylbenzene	A	100.0	89.33	2.62125	2.341602		-10.7	20
Hexachlorobutadiene	A	100.0	90.42	0.2519403	0.227815		-9.6	20
2-Hexanone	A	200.0	194.0	0.64531	0.6261081		-3.0	20
Isopropylbenzene	A	100.0	92.92	2.060659	1.914713		-7.1	20
p-Isopropyltoluene	A	100.0	94.67	1.585513	1.50102		-5.3	20
Methylene chloride	A	100.0	85.75	0.3058374	0.2622497		-14.3	20
Naphthalene	A	100.0	101.6	0.8628979	0.8768548		1.6	20
4-Methyl-2-pentanone	A	200.0	189.6	0.3461514	0.3281836		-5.2	20
Methyl t-Butyl Ether	A	100.0	88.56	0.6443611	0.570629		-11.4	20
n-Propylbenzene	A	100.0	84.42	2.867866	2.42105		-15.6	20
Styrene	A	100.0	99.54	1.57265	1.565459		-0.5	20
1,1,2,2-Tetrachloroethane	A	100.0	81.50	0.891879	0.7268652	0.3	-18.5	20
1,1,1,2-Tetrachloroethane	A	100.0	95.36	0.6412186	0.6114397		-4.6	20
Tetrachloroethene	A	100.0	90.91	0.7104583	0.6458528		-9.1	20
Toluene	A	100.0	89.65	1.442954	1.29367		-10.3	20
1,2,3-Trichlorobenzene	A	100.0	99.68	0.4083448	0.4070406		-0.3	20
1,2,4-Trichlorobenzene	A	100.0	101.4	0.4983989	0.5052836		1.4	20
1,1,2-Trichloroethane	A	100.0	92.15	0.5170842	0.4764956		-7.8	20
1,1,1-Trichloroethane	A	100.0	88.56	0.4192187	0.3712762		-11.4	20
Trichloroethene	A	100.0	84.99	0.2944908	0.2502824		-15.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	85.72	0.4689858	0.4019954		-14.3	20
1,2,3-Trichloropropane	A	100.0	94.83	0.1991037	0.1888084		-5.2	20
1,3,5-Trimethylbenzene	A	100.0	88.97	2.039265	1.814233		-11.0	20
1,2,4-Trimethylbenzene	A	100.0	96.97	1.766581	1.713118		-3.0	20
Xylenes (total)	A	300.0	268.6	1.844136	1.652238		-10.4	20
Bromofluorobenzene	A	30.00	31.47	0.9353573	0.981069		4.9	20
Dibromofluoromethane	A	30.00	29.34	0.3431068	0.3355545		-2.2	20
1,2-Dichloroethane-d4	A	30.00	30.49	6.230074E-02	6.332127E-02		1.6	20
Toluene-d8	A	30.00	31.27	2.274744	2.3712		4.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV3.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/16/12
Lab Sample ID:	2J29101-ICV3	Injection Time:	14:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	L	50.00	46.28	0.2359945	0.1820071		-7.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	92.33	0.1308263	0.1207967		-7.7	20
Benzene	A	50.00	48.95	0.9492909	0.9294012		-2.1	20
Bromobenzene	A	50.00	44.68	0.9753776	0.8715521		-10.6	20
Bromochloromethane	A	50.00	53.52	0.1703055	0.1822834		7.0	20
Bromodichloromethane	A	50.00	47.58	0.3668169	0.3490478		-4.8	20
Bromoform	Q	50.00	54.11	0.505661	0.6465461	0.1	8.2	20
Bromomethane	A	50.00	40.76	0.2263207	0.1845083		-18.5	20
n-Butylbenzene	A	50.00	61.20	1.316239	1.610997		22.4	20 *
2-Butanone	A	100.0	93.91	0.1900461	0.1784697		-6.1	20
sec-Butylbenzene	A	50.00	51.91	2.066344	2.145193		3.8	20
tert-Butylbenzene	A	50.00	53.23	1.705204	1.815518		6.5	20
Carbon disulfide	A	50.00	63.08	0.6412047	0.8089773		26.2	20 *
Carbon tetrachloride	A	50.00	48.77	0.3465177	0.3380042		-2.5	20
Chlorobenzene	A	50.00	57.11	1.561071	1.783054	0.3	14.2	20
Chloroethane	A	50.00	49.20	0.1885512	0.1855398		-1.6	20
Chloroform	A	50.00	43.33	0.524999	0.4549409		-13.3	20
Chloromethane	A	50.00	50.92	0.3854947	0.3925752	0.1	1.8	20
2-Chlorotoluene	A	50.00	39.57	2.094181	1.657207		-20.9	20 *
4-Chlorotoluene	A	50.00	42.65	2.218103	1.892033		-14.7	20
Dibromochloromethane	A	50.00	59.24	0.7653683	0.9067838		18.5	20
1,2-Dibromo-3-chloropropane	A	50.00	47.84	0.1457781	0.1394902		-4.3	20
1,2-Dibromoethane (EDB)	A	50.00	53.18	0.6953223	0.7395589		6.4	20
Dibromomethane	A	50.00	44.89	0.2156063	0.1935807		-10.2	20
1,2-Dichlorobenzene	A	50.00	48.32	1.322429	1.27802		-3.4	20
1,3-Dichlorobenzene	A	50.00	46.80	1.422392	1.331474		-6.4	20
1,4-Dichlorobenzene	A	50.00	46.15	1.504713	1.38893		-7.7	20
Dichlorodifluoromethane	A	50.00	58.10	0.2651001	0.308034		16.2	20
1,1-Dichloroethane	A	50.00	47.13	0.5476241	0.5161829	0.1	-5.7	20
1,2-Dichloroethane	A	50.00	39.92	0.4528864	0.3616066		-20.2	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	53.51	0.219995	0.2354197		7.0	20
cis-1,2-Dichloroethene	A	50.00	47.41	0.299601	0.284074		-5.2	20
trans-1,2-Dichloroethene	A	50.00	51.81	0.2718737	0.2817383		3.6	20
1,2-Dichloropropane	A	50.00	44.89	0.3128379	0.2808763		-10.2	20
1,3-Dichloropropane	A	50.00	47.79	1.028184	0.9828257		-4.4	20
2,2-Dichloropropane	A	50.00	42.84	0.3982799	0.3412355		-14.3	20
1,1-Dichloropropene	A	50.00	45.02	0.3717116	0.3347079		-10.0	20
cis-1,3-Dichloropropene	A	50.00	43.47	0.4546126	0.3952774		-13.1	20
trans-1,3-Dichloropropene	A	50.00	47.84	0.9878761	0.9451867		-4.3	20
Ethylbenzene	A	50.00	52.74	2.62125	2.764656		5.5	20
Hexachlorobutadiene	A	50.00	60.12	0.2519403	0.3029347		20.2	20 *
2-Hexanone	A	100.0	96.66	0.64531	0.6237656		-3.3	20
Isopropylbenzene	A	50.00	57.89	2.060659	2.385954		15.8	20
p-Isopropyltoluene	A	50.00	57.38	1.585513	1.819413		14.8	20
Methylene chloride	A	50.00	48.76	0.3058374	0.2982691		-2.5	20
Naphthalene	A	50.00	53.20	0.8628979	0.9180606		6.4	20
4-Methyl-2-pentanone	A	100.0	99.02	0.3461514	0.3427589		-1.0	20
Methyl t-Butyl Ether	A	50.00	46.17	0.6443611	0.5949429		-7.7	20
n-Propylbenzene	A	50.00	44.79	2.867866	2.568848		-10.4	20
Styrene	A	50.00	57.89	1.57265	1.820685		15.8	20
1,1,2,2-Tetrachloroethane	A	50.00	34.74	0.891879	0.6195925	0.3	-30.5	20 *
1,1,1,2-Tetrachloroethane	A	50.00	61.21	0.6412186	0.7849727		22.4	20 *
Tetrachloroethene	A	50.00	62.13	0.7104583	0.8828034		24.3	20 *
Toluene	A	50.00	51.99	1.442954	1.500504		4.0	20
1,2,3-Trichlorobenzene	A	50.00	60.81	0.4083448	0.4966615		21.6	20 *
1,2,4-Trichlorobenzene	A	50.00	65.00	0.4983989	0.6479174		30.0	20 *
1,1,2-Trichloroethane	A	50.00	49.88	0.5170842	0.5158019		-0.2	20
1,1,1-Trichloroethane	A	50.00	45.21	0.4192187	0.3790702		-9.6	20
Trichloroethene	A	50.00	46.68	0.2944908	0.2749615		-6.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	49.61	0.4689858	0.4653455		-0.8	20
1,2,3-Trichloropropane	A	50.00	53.41	0.1991037	0.2126869		6.8	20
1,3,5-Trimethylbenzene	A	50.00	46.86	2.039265	1.911042		-6.3	20
1,2,4-Trimethylbenzene	A	50.00	52.33	1.766581	1.848976		4.7	20
Vinyl chloride	L	50.00	48.45	0.2359945	0.1904934		-3.1	20
Xylenes (total)	A	150.0	162.8	1.844136	2.001038		8.5	20
Bromofluorobenzene	A	30.00	31.13	0.9353573	0.9706438		3.8	20
Dibromofluoromethane	A	30.00	28.62	0.3431068	0.3272943		-4.6	20
1,2-Dichloroethane-d4	A	30.00	31.59	6.230074E-02	6.560041E-02		5.3	20
Toluene-d8	A	30.00	32.05	2.274744	2.430278		6.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1113CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31905	Injection Date:	11/13/12
Lab Sample ID:	2K31905-CCV1	Injection Time:	09:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100.0	100.8	0.1308263	0.1318924		0.8	20	
Benzene	A	50.00	47.84	0.9492909	0.9082812		-4.3	20	
Bromobenzene	A	50.00	46.79	0.9753776	0.9127832		-6.4	20	
Bromochloromethane	A	50.00	53.47	0.1703055	0.1821124		6.9	20	
Bromodichloromethane	A	50.00	48.39	0.3668169	0.3550223		-3.2	20	
Bromoform	Q	50.00	53.78	0.505661	0.6421688	0.1	7.6	20	
Bromomethane	A	50.00	43.58	0.2263207	0.1972511		-12.8	20	
n-Butylbenzene	A	50.00	44.56	1.316239	1.173131		-10.9	20	
2-Butanone	A	100.0	102.2	0.1900461	0.194147		2.2	20	
sec-Butylbenzene	A	50.00	48.98	2.066344	2.024136		-2.0	20	
tert-Butylbenzene	A	50.00	50.07	1.705204	1.707474		0.1	20	
Carbon disulfide	A	50.00	56.35	0.6412047	0.7226221		12.7	20	
Carbon tetrachloride	A	50.00	50.29	0.3465177	0.348546		0.6	20	
Chlorobenzene	A	50.00	56.94	1.561071	1.777827	0.3	13.9	20	
Chloroethane	A	50.00	50.74	0.1885512	0.1913253		1.5	20	
Chloroform	A	50.00	42.19	0.524999	0.4429608		-15.6	20	
Chloromethane	A	50.00	51.18	0.3854947	0.3945839	0.1	2.4	20	
2-Chlorotoluene	A	50.00	39.22	2.094181	1.642801		-21.6	20	*
4-Chlorotoluene	A	50.00	40.07	2.218103	1.777438		-19.9	20	
Dibromochloromethane	A	50.00	60.25	0.7653683	0.922337		20.5	20	*
1,2-Dibromo-3-chloropropane	A	50.00	52.02	0.1457781	0.1516638		4.0	20	
1,2-Dibromoethane (EDB)	A	50.00	53.12	0.6953223	0.7386774		6.2	20	
Dibromomethane	A	50.00	44.59	0.2156063	0.1922708		-10.8	20	
1,2-Dichlorobenzene	A	50.00	48.78	1.322429	1.29012		-2.4	20	
1,3-Dichlorobenzene	A	50.00	47.45	1.422392	1.34974		-5.1	20	
1,4-Dichlorobenzene	A	50.00	46.15	1.504713	1.388999		-7.7	20	
Dichlorodifluoromethane	A	50.00	58.10	0.2651001	0.308027		16.2	20	
1,1-Dichloroethane	A	50.00	44.93	0.5476241	0.4920918	0.1	-10.1	20	
1,2-Dichloroethane	A	50.00	38.35	0.4528864	0.3473879		-23.3	20	*

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1113CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31905	Injection Date:	11/13/12
Lab Sample ID:	2K31905-CCV1	Injection Time:	09:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	57.38	0.219995	0.2524603		14.8	20
cis-1,2-Dichloroethene	A	50.00	46.55	0.299601	0.2789448		-6.9	20
trans-1,2-Dichloroethene	A	50.00	50.18	0.2718737	0.2728405		0.4	20
1,2-Dichloropropane	A	50.00	43.69	0.3128379	0.2733879		-12.6	20
1,3-Dichloropropane	A	50.00	45.47	1.028184	0.9350809		-9.1	20
2,2-Dichloropropane	A	50.00	41.71	0.3982799	0.3322353		-16.6	20
1,1-Dichloropropene	A	50.00	43.90	0.3717116	0.3263277		-12.2	20
cis-1,3-Dichloropropene	A	50.00	41.66	0.4546126	0.3788102		-16.7	20
trans-1,3-Dichloropropene	A	50.00	46.28	0.9878761	0.9143636		-7.4	20
Ethylbenzene	A	50.00	52.94	2.62125	2.775447		5.9	20
Hexachlorobutadiene	A	50.00	62.96	0.2519403	0.3172309		25.9	20 *
2-Hexanone	A	100.0	99.92	0.64531	0.6448056		-0.08	20
Isopropylbenzene	A	50.00	57.56	2.060659	2.372195		15.1	20
p-Isopropyltoluene	A	50.00	50.77	1.585513	1.609907		1.5	20
Methylene chloride	A	50.00	47.27	0.3058374	0.2891502		-5.5	20
Naphthalene	A	50.00	42.23	0.8628979	0.7288558		-15.5	20
4-Methyl-2-pentanone	A	100.0	100.2	0.3461514	0.3468956		0.2	20
Methyl t-Butyl Ether	A	50.00	45.05	0.6443611	0.5805911		-9.9	20
n-Propylbenzene	A	50.00	41.91	2.867866	2.40402		-16.2	20
Styrene	A	50.00	55.89	1.57265	1.757926		11.8	20
1,1,2,2-Tetrachloroethane	A	50.00	38.33	0.891879	0.6837254	0.3	-23.3	20 *
1,1,1,2-Tetrachloroethane	A	50.00	60.19	0.6412186	0.7719131		20.4	20 *
Tetrachloroethene	A	50.00	62.16	0.7104583	0.8832406		24.3	20 *
Toluene	A	50.00	52.15	1.442954	1.50503		4.3	20
1,2,3-Trichlorobenzene	A	50.00	54.83	0.4083448	0.4478031		9.7	20
1,2,4-Trichlorobenzene	A	50.00	55.74	0.4983989	0.5556091		11.5	20
1,1,2-Trichloroethane	A	50.00	49.32	0.5170842	0.5100876		-1.4	20
1,1,1-Trichloroethane	A	50.00	44.93	0.4192187	0.3766981		-10.1	20
Trichloroethene	A	50.00	45.24	0.2944908	0.26643		-9.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1113CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31905	Injection Date:	11/13/12
Lab Sample ID:	2K31905-CCV1	Injection Time:	09:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	48.48	0.4689858	0.4547719		-3.0	20
1,2,3-Trichloropropane	A	50.00	53.63	0.1991037	0.2135454		7.3	20
1,3,5-Trimethylbenzene	A	50.00	42.68	2.039265	1.740544		-14.6	20
1,2,4-Trimethylbenzene	A	50.00	46.24	1.766581	1.633602		-7.5	20
Vinyl chloride	L	50.00	49.29	0.2359945	0.1937697		-1.4	20
Xylenes (total)	A	150.0	157.6	1.844136	1.936582		5.0	20
Bromofluorobenzene	A	30.00	30.70	0.9353573	0.9570298		2.3	20
Dibromofluoromethane	A	30.00	29.25	0.3431068	0.3344743		-2.5	20
1,2-Dichloroethane-d4	A	30.00	30.30	6.230074E-02	6.293095E-02		1.0	20
Toluene-d8	A	30.00	32.57	2.274744	2.469719		8.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1115CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K32002	Injection Date:	11/15/12
Lab Sample ID:	2K32002-CCV1	Injection Time:	06:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	92.99	0.1308263	0.1216521		-7.0	20
Benzene	A	50.00	51.48	0.9492909	0.9773419		3.0	20
Bromobenzene	A	50.00	44.60	0.9753776	0.8700019		-10.8	20
Bromochloromethane	A	50.00	49.32	0.1703055	0.1679895		-1.4	20
Bromodichloromethane	A	50.00	53.65	0.3668169	0.3936231		7.3	20
Bromoform	Q	50.00	45.43	0.505661	0.5339403	0.1	-9.1	20
Bromomethane	A	50.00	35.43	0.2263207	0.1603836		-29.1	20 *
n-Butylbenzene	A	50.00	53.71	1.316239	1.413795		7.4	20
2-Butanone	A	100.0	120.2	0.1900461	0.2284618		20.2	20 *
sec-Butylbenzene	A	50.00	52.92	2.066344	2.186901		5.8	20
tert-Butylbenzene	A	50.00	51.93	1.705204	1.771017		3.9	20
Carbon disulfide	A	50.00	57.98	0.6412047	0.7435617		16.0	20
Carbon tetrachloride	A	50.00	51.25	0.3465177	0.3551934		2.5	20
Chlorobenzene	A	50.00	50.91	1.561071	1.589533	0.3	1.8	20
Chloroethane	A	50.00	46.61	0.1885512	0.1757694		-6.8	20
Chloroform	A	50.00	47.93	0.524999	0.503311		-4.1	20
Chloromethane	A	50.00	48.27	0.3854947	0.372125	0.1	-3.5	20
2-Chlorotoluene	A	50.00	47.30	2.094181	1.981092		-5.4	20
4-Chlorotoluene	A	50.00	48.37	2.218103	2.145776		-3.3	20
Dibromochloromethane	A	50.00	53.33	0.7653683	0.8163793		6.7	20
1,2-Dibromo-3-chloropropane	A	50.00	48.87	0.1457781	0.142488		-2.3	20
1,2-Dibromoethane (EDB)	A	50.00	48.60	0.6953223	0.6758077		-2.8	20
Dibromomethane	A	50.00	48.36	0.2156063	0.2085368		-3.3	20
1,2-Dichlorobenzene	A	50.00	48.16	1.322429	1.273749		-3.7	20
1,3-Dichlorobenzene	A	50.00	48.15	1.422392	1.369855		-3.7	20
1,4-Dichlorobenzene	A	50.00	45.92	1.504713	1.381893		-8.2	20
Dichlorodifluoromethane	A	50.00	56.09	0.2651001	0.2974075		12.2	20
1,1-Dichloroethane	A	50.00	48.32	0.5476241	0.5292203	0.1	-3.4	20
1,2-Dichloroethane	A	50.00	46.03	0.4528864	0.4169694		-7.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1115CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K32002	Injection Date:	11/15/12
Lab Sample ID:	2K32002-CCV1	Injection Time:	06:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	54.67	0.219995	0.2405495		9.3	20
cis-1,2-Dichloroethene	A	50.00	49.91	0.299601	0.2990672		-0.2	20
trans-1,2-Dichloroethene	A	50.00	49.85	0.2718737	0.2710677		-0.3	20
1,2-Dichloropropane	A	50.00	49.23	0.3128379	0.3080463		-1.5	20
1,3-Dichloropropane	A	50.00	49.83	1.028184	1.024745		-0.3	20
2,2-Dichloropropane	A	50.00	48.74	0.3982799	0.3882701		-2.5	20
1,1-Dichloropropene	A	50.00	49.53	0.3717116	0.3682286		-0.9	20
cis-1,3-Dichloropropene	A	50.00	49.40	0.4546126	0.4491916		-1.2	20
trans-1,3-Dichloropropene	A	50.00	51.59	0.9878761	1.019358		3.2	20
Ethylbenzene	A	50.00	50.73	2.62125	2.659302		1.5	20
Hexachlorobutadiene	A	50.00	52.20	0.2519403	0.2630395		4.4	20
2-Hexanone	A	100.0	113.6	0.64531	0.7330856		13.6	20
Isopropylbenzene	A	50.00	52.58	2.060659	2.167021		5.2	20
p-Isopropyltoluene	A	50.00	53.57	1.585513	1.698743		7.1	20
Methylene chloride	A	50.00	48.50	0.3058374	0.2966433		-3.0	20
Naphthalene	A	50.00	41.55	0.8628979	0.7170093		-16.9	20
4-Methyl-2-pentanone	A	100.0	123.2	0.3461514	0.4266362		23.3	20 *
Methyl t-Butyl Ether	A	50.00	48.08	0.6443611	0.6195895		-3.8	20
n-Propylbenzene	A	50.00	49.81	2.867866	2.856844		-0.4	20
Styrene	A	50.00	52.38	1.57265	1.647499		4.8	20
1,1,2,2-Tetrachloroethane	A	50.00	45.94	0.891879	0.8193743	0.3	-8.1	20
1,1,1,2-Tetrachloroethane	A	50.00	51.93	0.6412186	0.6659246		3.9	20
Tetrachloroethene	A	50.00	46.87	0.7104583	0.66597		-6.3	20
Toluene	A	50.00	50.36	1.442954	1.453357		0.7	20
1,2,3-Trichlorobenzene	A	50.00	46.98	0.4083448	0.3836441		-6.0	20
1,2,4-Trichlorobenzene	A	50.00	47.67	0.4983989	0.4751262		-4.7	20
1,1,2-Trichloroethane	A	50.00	50.52	0.5170842	0.5224645		1.0	20
1,1,1-Trichloroethane	A	50.00	49.03	0.4192187	0.4110651		-1.9	20
Trichloroethene	A	50.00	47.39	0.2944908	0.2790995		-5.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1115CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K32002	Injection Date:	11/15/12
Lab Sample ID:	2K32002-CCV1	Injection Time:	06:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	47.75	0.4689858	0.4478682		-4.5	20
1,2,3-Trichloropropane	A	50.00	51.85	0.1991037	0.2064696		3.7	20
1,3,5-Trimethylbenzene	A	50.00	48.05	2.039265	1.959659		-3.9	20
1,2,4-Trimethylbenzene	A	50.00	51.21	1.766581	1.809449		2.4	20
Vinyl chloride	L	50.00	47.49	0.2359945	0.186722		-5.0	20
Xylenes (total)	A	150.0	157.7	1.844136	1.939366		5.2	20
Bromofluorobenzene	A	30.00	29.64	0.9353573	0.9240062		-1.2	20
Dibromofluoromethane	A	30.00	29.64	0.3431068	0.3390329		-1.2	20
1,2-Dichloroethane-d4	A	30.00	30.87	6.230074E-02	6.411365E-02		2.9	20
Toluene-d8	A	30.00	29.90	2.274744	2.267478		-0.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1115CCVE.D	Calibration Date:	10/12/12 03:24
Sequence:	2K32103	Injection Date:	11/15/12
Lab Sample ID:	2K32103-CCV1	Injection Time:	18:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	74.89	0.1308263	9.798031E-02		-25.1	20 *
Benzene	A	50.00	52.77	0.9492909	1.001957		5.5	20
Bromobenzene	A	50.00	47.16	0.9753776	0.9200238		-5.7	20
Bromochloromethane	A	50.00	50.62	0.1703055	0.1724148		1.2	20
Bromodichloromethane	A	50.00	53.86	0.3668169	0.3951627		7.7	20
Bromoform	Q	50.00	46.24	0.505661	0.5443858	0.1	-7.5	20
Bromomethane	A	50.00	40.95	0.2263207	0.1853441		-18.1	20
n-Butylbenzene	A	50.00	52.62	1.316239	1.38532		5.2	20
2-Butanone	A	100.0	94.70	0.1900461	0.1799798		-5.3	20
sec-Butylbenzene	A	50.00	54.74	2.066344	2.262199		9.5	20
tert-Butylbenzene	A	50.00	53.43	1.705204	1.822086		6.9	20
Carbon disulfide	A	50.00	58.20	0.6412047	0.746324		16.4	20
Carbon tetrachloride	A	50.00	50.98	0.3465177	0.3533299		2.0	20
Chlorobenzene	A	50.00	52.73	1.561071	1.646459	0.3	5.5	20
Chloroethane	A	50.00	45.03	0.1885512	0.1698201		-9.9	20
Chloroform	A	50.00	49.48	0.524999	0.519528		-1.0	20
Chloromethane	A	50.00	46.69	0.3854947	0.3600083	0.1	-6.6	20
2-Chlorotoluene	A	50.00	48.91	2.094181	2.048354		-2.2	20
4-Chlorotoluene	A	50.00	49.80	2.218103	2.209245		-0.4	20
Dibromochloromethane	A	50.00	54.38	0.7653683	0.8323584		8.8	20
1,2-Dibromo-3-chloropropane	A	50.00	52.30	0.1457781	0.152476		4.6	20
1,2-Dibromoethane (EDB)	A	50.00	49.94	0.6953223	0.6945075		-0.1	20
Dibromomethane	A	50.00	50.01	0.2156063	0.2156443		0.02	20
1,2-Dichlorobenzene	A	50.00	50.40	1.322429	1.333116		0.8	20
1,3-Dichlorobenzene	A	50.00	50.13	1.422392	1.426084		0.3	20
1,4-Dichlorobenzene	A	50.00	47.81	1.504713	1.438905		-4.4	20
Dichlorodifluoromethane	A	50.00	53.61	0.2651001	0.2842544		7.2	20
1,1-Dichloroethane	A	50.00	49.75	0.5476241	0.5448318	0.1	-0.5	20
1,2-Dichloroethane	A	50.00	47.21	0.4528864	0.4276269		-5.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1115CCVE.D	Calibration Date:	10/12/12 03:24
Sequence:	2K32103	Injection Date:	11/15/12
Lab Sample ID:	2K32103-CCV1	Injection Time:	18:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	53.64	0.219995	0.2360305		7.3	20
cis-1,2-Dichloroethene	A	50.00	51.85	0.299601	0.3106633		3.7	20
trans-1,2-Dichloroethene	A	50.00	51.84	0.2718737	0.2818999		3.7	20
1,2-Dichloropropane	A	50.00	51.88	0.3128379	0.3246037		3.8	20
1,3-Dichloropropane	A	50.00	50.71	1.028184	1.042793		1.4	20
2,2-Dichloropropane	A	50.00	45.93	0.3982799	0.3658551		-8.1	20
1,1-Dichloropropene	A	50.00	49.86	0.3717116	0.3706379		-0.3	20
cis-1,3-Dichloropropene	A	50.00	49.96	0.4546126	0.454283		-0.07	20
trans-1,3-Dichloropropene	A	50.00	51.84	0.9878761	1.024326		3.7	20
Ethylbenzene	A	50.00	51.69	2.62125	2.710029		3.4	20
Hexachlorobutadiene	A	50.00	58.33	0.2519403	0.2939014		16.7	20
2-Hexanone	A	100.0	86.63	0.64531	0.559012		-13.4	20
Isopropylbenzene	A	50.00	53.56	2.060659	2.207251		7.1	20
p-Isopropyltoluene	A	50.00	54.85	1.585513	1.739402		9.7	20
Methylene chloride	A	50.00	49.19	0.3058374	0.300881		-1.6	20
Naphthalene	A	50.00	43.87	0.8628979	0.7570727		-12.3	20
4-Methyl-2-pentanone	A	100.0	94.66	0.3461514	0.3276653		-5.3	20
Methyl t-Butyl Ether	A	50.00	49.30	0.6443611	0.6353504		-1.4	20
n-Propylbenzene	A	50.00	51.45	2.867866	2.950903		2.9	20
Styrene	A	50.00	53.30	1.57265	1.676334		6.6	20
1,1,2,2-Tetrachloroethane	A	50.00	47.50	0.891879	0.8472375	0.3	-5.0	20
1,1,1,2-Tetrachloroethane	A	50.00	52.80	0.6412186	0.6770965		5.6	20
Tetrachloroethene	A	50.00	47.56	0.7104583	0.6757682		-4.9	20
Toluene	A	50.00	51.32	1.442954	1.481052		2.6	20
1,2,3-Trichlorobenzene	A	50.00	51.66	0.4083448	0.421926		3.3	20
1,2,4-Trichlorobenzene	A	50.00	49.86	0.4983989	0.4970475		-0.3	20
1,1,2-Trichloroethane	A	50.00	51.50	0.5170842	0.5326132		3.0	20
1,1,1-Trichloroethane	A	50.00	48.49	0.4192187	0.406517		-3.0	20
Trichloroethene	A	50.00	48.50	0.2944908	0.2856455		-3.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1115CCVE.D	Calibration Date:	10/12/12 03:24
Sequence:	2K32103	Injection Date:	11/15/12
Lab Sample ID:	2K32103-CCV1	Injection Time:	18:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	48.52	0.4689858	0.4551067		-3.0	20
1,2,3-Trichloropropane	A	50.00	53.47	0.1991037	0.2129212		6.9	20
1,3,5-Trimethylbenzene	A	50.00	48.64	2.039265	1.983996		-2.7	20
1,2,4-Trimethylbenzene	A	50.00	50.83	1.766581	1.795934		1.7	20
Vinyl chloride	L	50.00	44.39	0.2359945	0.174618		-11.2	20
Xylenes (total)	A	150.0	160.5	1.844136	1.973312		7.0	20
Bromofluorobenzene	A	30.00	29.77	0.9353573	0.9280958		-0.8	20
Dibromofluoromethane	A	30.00	29.54	0.3431068	0.3378106		-1.5	20
1,2-Dichloroethane-d4	A	30.00	30.43	6.230074E-02	6.319238E-02		1.4	20
Toluene-d8	A	30.00	30.11	2.274744	2.282899		0.4	20

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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
GW0761	11/05/12 10:14	11/07/12 08:35	11/13/12 19:00	N/A	14.00	11/13/12 19:00	8.32	14.00	
GW0765	11/05/12 13:13	11/07/12 08:35	11/13/12 19:28	N/A	14.00	11/13/12 19:28	8.22	14.00	
GW0773	11/06/12 12:02	11/07/12 08:35	11/13/12 15:45	N/A	14.00	11/13/12 15:45	7.11	14.00	
GW0829	11/06/12 15:57	11/07/12 08:35	11/13/12 12:59	N/A	14.00	11/13/12 12:59	6.83	14.00	
GW0858	11/05/12 13:00	11/07/12 08:35	11/13/12 13:27	N/A	14.00	11/13/12 13:27	7.98	14.00	
GW0859	11/05/12 10:44	11/07/12 08:35	11/13/12 13:54	N/A	14.00	11/13/12 13:54	8.09	14.00	
GW8240-TB	11/05/12 08:00	11/07/12 08:35	11/09/12 13:03	N/A	14.00	11/09/12 13:03	4.21	14.00	
GW0772	11/07/12 10:39	11/08/12 08:35	11/13/12 16:13	N/A	14.00	11/13/12 16:13	6.19	14.00	
GW0828	11/07/12 12:59	11/08/12 08:35	11/13/12 16:41	N/A	14.00	11/13/12 16:41	6.11	14.00	
GW0830	11/07/12 15:17	11/08/12 08:35	11/13/12 17:09	N/A	14.00	11/13/12 17:09	6.04	14.00	
GW8241-TB	11/07/12 08:00	11/08/12 08:35	11/09/12 13:58	N/A	14.00	11/09/12 13:58	2.21	14.00	
GW0757	11/08/12 10:37	11/09/12 08:30	11/16/12 03:03	N/A	14.00	11/16/12 03:03	7.64	14.00	
GW0831	11/08/12 13:51	11/09/12 08:30	11/16/12 03:59	N/A	14.00	11/16/12 03:59	7.55	14.00	
GW8062-AB	11/08/12 13:51	11/09/12 08:30	11/15/12 13:38	N/A	14.00	11/15/12 13:38	6.95	14.00	
GW8242-TB	11/08/12 08:00	11/09/12 08:30	11/15/12 14:06	N/A	14.00	11/15/12 14:06	7.21	14.00	

PREPARATION BENCH SHEET

2K09002

Empirical Laboratories, LLC

Printed: 11/19/2012 2:10:48PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-19	B	VOC_8260B_REG	11/09/2012	5	5				1	2	MS/MSD, naphthalene must be reported
1211037-03RE1	C	VOC_8260B_REG	11/09/2012	5	5				1	2	RR 2x at end-ADM
1211037-10RE1	C	VOC_8260B_REG	11/09/2012	5	5				1	2	RR 2x at end-ADM
1211059-04	A	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211059-05	B	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211059-06	B	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211059-07	B	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211061-27	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211061-28	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211061-29	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211061-30	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211066-13	A	VOC_8260B_REG	11/09/2012	5	5				1	7	naphthalene must be reported
1211067-01	A	VOC_8260B_REG	11/09/2012	5	5				1	2	See version
1211074-07	A	VOC_8260B_REG	11/09/2012	5	5				1	2	naphthalene must be reported
1211075-01	B	VOC_8260B_REG	11/09/2012	5	5				1	2	naphthalene must be reported
1211075-02	B	VOC_8260B_REG	11/09/2012	5	5				1	2	naphthalene must be reported
1211077-03	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211080-01	A	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
2K09002-BLK1		QC	11/09/2012	5	5				1	NA	
2K09002-BS1		QC	11/09/2012	5	5	12K0033		2.5	1	NA	
2K09002-MS1		QC	11/09/2012	5	5	12K0033	1211036-19	2.5	1	NA	
2K09002-MSD1		QC	11/09/2012	5	5	12K0033	1211036-19	2.5	1	NA	

PREPARATION BENCH SHEET

2K09002

Empirical Laboratories, LLC

Printed: 11/19/2012 2:10:48PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12A0699	Anti-foam-JT Baker_AFB

PREPARATION BENCH SHEET

2K13009

Empirical Laboratories, LLC

Printed: 11/30/2012 1:41:27PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211014-07RE2	C	VOC_8260B_REG	11/13/2012	5	5				1	2	rerun 20x doesn't match original
1211066-01	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported 100x
1211066-03	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported 100x
1211066-05	B	VOC_8260B_REG	11/13/2012	5	5				1	2	MS/MSD, naphthalene must be reported
1211066-07	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported
1211066-09	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported
1211066-11	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported
1211070-09	B	VOC_8260B_REG	11/13/2012	5	5				1	2	see version LODverification0.25ppb
1211070-10	B	VOC_8260B_REG	11/13/2012	5	5				1	2	see version LODverification0.25ppb
1211070-11	B	VOC_8260B_REG	11/13/2012	5	5				1	2	see version LODverification0.25ppb 50x
1211070-12	B	VOC_8260B_REG	11/13/2012	5	5				1	2	see version LODverification0.25ppb 50x
1211070-13	B	VOC_8260B_REG	11/13/2012	5	5				1	2	see version LODverification0.25ppb 50x
1211070-14	B	VOC_8260B_REG	11/13/2012	5	5				1	2	see version LODverification0.25ppb
1211074-01	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported
1211074-03	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported 2XF
1211074-05	B	VOC_8260B_REG	11/13/2012	5	5				1	2	naphthalene must be reported
1211087-01	A	VOC_8260B_REG	11/13/2012	5	5				1	2	LOD verification 2.5ug/kg
1211087-02	A	VOC_8260B_REG	11/13/2012	5	5				1	2	LOD verification 2.5ug/kg
2K13009-BLK1		QC	11/13/2012	5	5				1	NA	
2K13009-BS1		QC	11/13/2012	5	5	12K0349		2.5	1	NA	
2K13009-MS1		QC	11/13/2012	5	5	12K0349	1211066-05	2.5	1	NA	
2K13009-MSD1		QC	11/13/2012	5	5	12K0349	1211066-05	2.5	1	NA	

PREPARATION BENCH SHEET

2K13009

Empirical Laboratories, LLC

Printed: 11/30/2012 1:41:27PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12A0500	Anti-foam-GE_AF72

PREPARATION BENCH SHEET

2K15002

Empirical Laboratories, LLC

Printed: 11/26/2012 1:47:10PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211088-01	B	VOC_8260B_REG	11/15/2012	5	5				1	2	
1211088-02	B	VOC_8260B_REG	11/15/2012	5	5				1	2	
1211088-05	B	VOC_8260B_REG	11/15/2012	5	5				1	2	
1211088-09	B	VOC_8260B_REG	11/15/2012	5	5				1	2	
1211088-12	A	VOC_8260B_REG	11/15/2012	5	5				1	2	
1211091-05	A	VOC_8260B_REG	11/15/2012	5	5				1	2	naphthalene must be reported
1211091-06	A	VOC_8260B_REG	11/15/2012	5	5				1	2	naphthalene must be reported
1211100-01	A	VOC_8260B_REG	11/15/2012	5	5				1	2	See version
1211103-01	A	VOC_8260B_REG	11/15/2012	5	5				1	7	Added for BatchQC in: 2K15002
1211103-01	A	VOC_SPLP_8260B	11/15/2012	5	5				1	7	MS/MSD.TCE only
1211103-05	A	VOC_SPLP_8260B	11/15/2012	5	5				1	7	TCE only
1211103-06	A	VOC_SPLP_8260B	11/15/2012	5	5				1	7	TCE only
1211103-07	A	VOC_SPLP_8260B	11/15/2012	5	5				1	7	TCE only
1211103-08	A	VOC_SPLP_8260B	11/15/2012	5	5				1	7	TCE only
1211103-09	A	VOC_SPLP_8260B	11/15/2012	5	5				1	7	TCE only
1211133-03	A	VOC_8260B_REG	11/15/2012	5	5				1	2	naphthalene must be reported
1211133-04	A	VOC_8260B_REG	11/15/2012	5	5				1	2	naphthalene must be reported
1211133-05	A	VOC_8260B_REG	11/15/2012	5	5				1	2	naphthalene must be reported
2K15002-BLK1		QC	11/15/2012	5	5				1	NA	
2K15002-BLK2		QC	11/15/2012	5	5				1	NA	2K14013-SPLP BLK
2K15002-BS1		QC	11/15/2012	5	5	12K0349		2.5	1	NA	
2K15002-BSD1		QC	11/15/2012	5	5	12K0349		2.5	1	NA	

PREPARATION BENCH SHEET

2K15002

Empirical Laboratories, LLC

Printed: 11/26/2012 1:47:10PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K15002-DUP1		QC	11/15/2012	5	5		1211103-01		1	NA	

Reagents Used:

Standard	Description
12A0699	Anti-foam-JT Baker_AFB

PREPARATION BENCH SHEET

2K15009

Empirical Laboratories, LLC

Printed: 11/21/2012 10:27:32AM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211070-12RE1	C	VOC_8260B_REG	11/16/2012	5	5				1	2	rerun lower 5x
1211070-13RE1	C	VOC_8260B_REG	11/16/2012	5	5				1	2	rerun lower 5x
1211070-15	B	VOC_8260B_AP9	11/16/2012	5	5				1		Added for BatchQC in: 2K15009
1211070-15	B	VOC_8260B_REG	11/15/2012	5	5				1	2	MS/MSD, see version LODverification0.25ppb 5x
1211070-16	B	VOC_8260B_REG	11/15/2012	5	5				1	2	see version LODverification0.25ppb
1211077-01	B	VOC_8260B_REG	11/16/2012	5	5				1	2	2x
1211077-02	B	VOC_8260B_AP9	11/15/2012	5	5				1		Added for BatchQC in: 2K15009
1211077-02	B	VOC_8260B_REG	11/15/2012	5	5				1	2	MS/MSD. LF
1211077-04	B	VOC_8260B_REG	11/15/2012	5	5				1	2	
1211081-01	B	VOC_8260B_REG	11/16/2012	5	5				1	2	see version 100x
1211088-03	B	VOC_8260B_REG	11/15/2012	5	5				1	2	LF
1211091-01	B	VOC_8260B_REG	11/16/2012	5	5				1	2	naphthalene must be reported 10x
1211091-03	B	VOC_8260B_REG	11/16/2012	5	5				1	2	naphthalene must be reported 200x
1211098-01	A	VOC_8260B_AP9	11/15/2012	5	5				1	2	VOAs with AP9 (see version if benzene only)
1211098-02	B	VOC_8260B_AP9	11/16/2012	5	5				1	2	VOAs with AP9 (see version if benzene only) 5XF
1211098-03	B	VOC_8260B_AP9	11/15/2012	5	5				1	2	VOAs with AP9 (see version if benzene only)
1211098-04	B	VOC_8260B_AP9	11/15/2012	5	5				1	2	VOAs with AP9 (see version if benzene only) LF
1211098-05	B	VOC_8260B_AP9	11/16/2012	5	5				1	2	VOAs with AP9 (see version if benzene only)
2K15009-BLK1		QC	11/15/2012	5	5				1	NA	
2K15009-BS1		QC	11/15/2012	5	5	12K0349		2.5	1	NA	
2K15009-MS1		QC	11/16/2012	5	5	12K0349	1211070-15	12.5	1	NA	5x
2K15009-MS2		QC	11/16/2012	5	5	12K0349	1211077-02	2.5	1	NA	

PREPARATION BENCH SHEET

2K15009

Empirical Laboratories, LLC

Printed: 11/21/2012 10:27:32AM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K15009-MSD1		QC	11/16/2012	5	5	12K0349	1211070-15	12.5	1	NA	5x
2K15009-MSD2		QC	11/16/2012	5	5	12K0349	1211077-02	2.5	1	NA	

Reagents Used:

Standard	Description
12A0500	Anti-foam-GE_AF72

Data for SW8270D Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K08004	1,000.00/1.00	1080	1.00	100.00			11/08/12
1211066-03 [GW0765]	2K08004	1,000.00/1.00	1020	1.00	100.00			11/08/12
1211066-05 [GW0773]	2K08004	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211066-07 [GW0829]	2K08004	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211066-09 [GW0858]	2K08004	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211066-11 [GW0859]	2K08004	1,000.00/1.00	1000	1.00	1.00			11/08/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211074-01 [GW0772]	2K09007	1,000.00/1.00	1000	1.00	1.00			11/09/12
1211074-03 [GW0828]	2K09007	1,000.00/1.00	1000	1.00	1.00			11/09/12
1211074-05 [GW0830]	2K09007	1,000.00/1.00	1000	1.00	1.00			11/09/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K13003	1,000.00/1.00	1020	1.00	1.00			11/13/12
1211091-03RE1 [GW0831]	2K13003	1,000.00/1.00	1020	1.00	200.00			11/13/12
1211091-03RE2 [GW0831]	2K13003	1,000.00/1.00	1020	1.00	1,000.00			11/13/12

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01	File ID:	1106601D.D
Sampled:	11/05/12 10:14	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 19:05
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		116	231	463	U
208-96-8	Acenaphthylene		116	231	463	U
98-86-2	Acetophenone	**209**	116	231	463	JD
120-12-7	Anthracene		116	231	463	U
1912-24-9	Atrazine		116	231	463	U
100-52-7	Benzaldehyde		116	231	463	U
92-87-5	Benzidine		1160	4630	9260	UX
56-55-3	Benzo(a)anthracene		116	231	463	U
50-32-8	Benzo(a)pyrene		116	231	463	U
205-99-2	Benzo(b)fluoranthene		116	231	463	UX
191-24-2	Benzo(g,h,i)perylene		116	231	463	U
65-85-0	Benzoic acid		1160	4630	9260	U
207-08-9	Benzo(k)fluoranthene		116	231	463	U
92-52-4	1,1-Biphenyl		116	231	463	U
101-55-3	4-Bromophenyl-phenylether		116	231	463	U
85-68-7	Butylbenzylphthalate		116	231	463	U
105-60-2	Caprolactam		116	231	463	UX
86-74-8	Carbazole		116	231	463	U
59-50-7	4-Chloro-3-methylphenol		116	231	463	U
106-47-8	4-Chloroaniline		116	231	463	U
111-91-1	Bis(2-chloroethoxy)methane		116	231	463	U
111-44-4	Bis(2-chloroethyl)ether		116	231	463	U
108-60-1	2,2'-Oxybis-1-chloropropane		116	231	463	U
91-58-7	2-Chloronaphthalene		116	231	463	U
95-57-8	2-Chlorophenol		116	231	463	U
7005-72-3	4-Chlorophenyl phenyl ether		116	231	463	U
218-01-9	Chrysene		116	231	463	U
53-70-3	Dibenz(a,h)anthracene		116	231	463	U
132-64-9	Dibenzofuran		116	231	463	U
84-74-2	Di-n-butylphthalate		116	231	463	U
91-94-1	3,3'-Dichlorobenzidine		116	231	463	UX
120-83-2	2,4-Dichlorophenol		116	231	463	U
84-66-2	Diethylphthalate		116	231	463	U
105-67-9	2,4-Dimethylphenol		463	926	1850	U
131-11-3	Dimethyl phthalate		116	231	463	U
534-52-1	4,6-Dinitro-2-methylphenol		463	926	1850	UX
51-28-5	2,4-Dinitrophenol		771	2310	4630	U
121-14-2	2,4-Dinitrotoluene		116	231	463	U
606-20-2	2,6-Dinitrotoluene		116	231	463	U
117-84-0	Di-n-octylphthalate		116	231	463	U

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01	File ID:	1106601D.D
Sampled:	11/05/12 10:14	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 19:05
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		116	231	463	U
117-81-7	Bis(2-ethylhexyl)phthalate		116	231	463	U
206-44-0	Fluoranthene		116	231	463	U
86-73-7	Fluorene		116	231	463	U
118-74-1	Hexachlorobenzene		116	231	463	U
87-68-3	Hexachlorobutadiene		116	231	463	U
77-47-4	Hexachlorocyclopentadiene		116	463	926	U
67-72-1	Hexachloroethane		116	231	463	U
193-39-5	Indeno(1,2,3-cd)pyrene		116	231	463	U
78-59-1	Isophorone		116	231	463	U
90-12-0	1-Methylnaphthalene		116	231	463	U
91-57-6	2-Methylnaphthalene		116	231	463	U
95-48-7	2-Methylphenol		116	231	463	U
108-39-4/106	3-Methylphenol/4-Methylphenol		116	231	463	U
91-20-3	Naphthalene	**136**	116	231	463	JD
100-01-6	4-Nitroaniline		463	926	1850	U
99-09-2	3-Nitroaniline		463	926	1850	U
88-74-4	2-Nitroaniline		463	926	1850	U
98-95-3	Nitrobenzene		116	231	463	U
100-02-7	4-Nitrophenol		463	926	1850	U
88-75-5	2-Nitrophenol		116	231	463	UX
86-30-6	N-Nitrosodiphenylamine		116	231	463	U
621-64-7	N-Nitroso-di-n-propylamine		116	231	463	U
87-86-5	Pentachlorophenol		463	926	1850	U
85-01-8	Phenanthrene		116	231	463	U
108-95-2	Phenol		116	231	463	U
129-00-0	Pyrene		116	231	463	U
88-06-2	2,4,6-Trichlorophenol		116	231	463	U
95-95-4	2,4,5-Trichlorophenol		116	231	463	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	ND		50 - 110	DU
2-Fluorophenol	92.59	ND		20 - 110	DU
Nitrobenzene-d5	46.30	ND		40 - 110	DU
Phenol-d6	92.59	ND		0 - 110	DU
Terphenyl-d14	46.30	ND		50 - 135	DX, U
2,4,6-Tribromophenol	92.59	ND		40 - 125	DU

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03	File ID:	1106603D.D
Sampled:	11/05/12 13:13	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 19:33
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		123	245	490	U
208-96-8	Acenaphthylene		123	245	490	U
98-86-2	Acetophenone	**7420**	123	245	490	D
120-12-7	Anthracene		123	245	490	U
1912-24-9	Atrazine		123	245	490	U
100-52-7	Benzaldehyde		123	245	490	U
92-87-5	Benzidine		1230	4900	9800	UX
56-55-3	Benzo(a)anthracene		123	245	490	U
50-32-8	Benzo(a)pyrene		123	245	490	U
205-99-2	Benzo(b)fluoranthene		123	245	490	UX
191-24-2	Benzo(g,h,i)perylene		123	245	490	U
65-85-0	Benzoic acid		1230	4900	9800	U
207-08-9	Benzo(k)fluoranthene		123	245	490	U
92-52-4	1,1-Biphenyl		123	245	490	U
101-55-3	4-Bromophenyl-phenylether		123	245	490	U
85-68-7	Butylbenzylphthalate		123	245	490	U
105-60-2	Caprolactam		123	245	490	UX
86-74-8	Carbazole		123	245	490	U
59-50-7	4-Chloro-3-methylphenol		123	245	490	U
106-47-8	4-Chloroaniline		123	245	490	U
111-91-1	Bis(2-chloroethoxy)methane		123	245	490	U
111-44-4	Bis(2-chloroethyl)ether		123	245	490	U
108-60-1	2,2'-Oxybis-1-chloropropane		123	245	490	U
91-58-7	2-Chloronaphthalene		123	245	490	U
95-57-8	2-Chlorophenol		123	245	490	U
7005-72-3	4-Chlorophenyl phenyl ether		123	245	490	U
218-01-9	Chrysene		123	245	490	U
53-70-3	Dibenz(a,h)anthracene		123	245	490	U
132-64-9	Dibenzofuran		123	245	490	U
84-74-2	Di-n-butylphthalate		123	245	490	U
91-94-1	3,3'-Dichlorobenzidine		123	245	490	UX
120-83-2	2,4-Dichlorophenol		123	245	490	U
84-66-2	Diethylphthalate		123	245	490	U
105-67-9	2,4-Dimethylphenol		490	980	1960	U
131-11-3	Dimethyl phthalate		123	245	490	U
534-52-1	4,6-Dinitro-2-methylphenol		490	980	1960	UX
51-28-5	2,4-Dinitrophenol		817	2450	4900	U
121-14-2	2,4-Dinitrotoluene		123	245	490	U
606-20-2	2,6-Dinitrotoluene		123	245	490	U
117-84-0	Di-n-octylphthalate		123	245	490	U

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03	File ID:	1106603D.D
Sampled:	11/05/12 13:13	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 19:33
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		123	245	490	U
117-81-7	Bis(2-ethylhexyl)phthalate		123	245	490	U
206-44-0	Fluoranthene		123	245	490	U
86-73-7	Fluorene		123	245	490	U
118-74-1	Hexachlorobenzene		123	245	490	U
87-68-3	Hexachlorobutadiene		123	245	490	U
77-47-4	Hexachlorocyclopentadiene		123	490	980	U
67-72-1	Hexachloroethane		123	245	490	U
193-39-5	Indeno(1,2,3-cd)pyrene		123	245	490	U
78-59-1	Isophorone		123	245	490	U
90-12-0	1-Methylnaphthalene		123	245	490	U
91-57-6	2-Methylnaphthalene		123	245	490	U
95-48-7	2-Methylphenol		123	245	490	U
108-39-4/106	3-Methylphenol/4-Methylphenol		123	245	490	U
91-20-3	Naphthalene	**137**	123	245	490	JD
100-01-6	4-Nitroaniline		490	980	1960	U
99-09-2	3-Nitroaniline		490	980	1960	U
88-74-4	2-Nitroaniline		490	980	1960	U
98-95-3	Nitrobenzene		123	245	490	U
100-02-7	4-Nitrophenol		490	980	1960	U
88-75-5	2-Nitrophenol		123	245	490	UX
86-30-6	N-Nitrosodiphenylamine		123	245	490	U
621-64-7	N-Nitroso-di-n-propylamine		123	245	490	U
87-86-5	Pentachlorophenol		490	980	1960	U
85-01-8	Phenanthrene		123	245	490	U
108-95-2	Phenol		123	245	490	U
129-00-0	Pyrene		123	245	490	U
88-06-2	2,4,6-Trichlorophenol		123	245	490	U
95-95-4	2,4,5-Trichlorophenol		123	245	490	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	ND		50 - 110	DU
2-Fluorophenol	98.04	ND		20 - 110	DU
Nitrobenzene-d5	49.02	ND		40 - 110	DU
Phenol-d6	98.04	ND		0 - 110	DU
Terphenyl-d14	49.02	ND		50 - 135	DX, U
2,4,6-Tribromophenol	98.04	ND		40 - 125	DU

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	1106605.D
Sampled:	11/06/12 12:02	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 20:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
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	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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	UX
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

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	1106605.D
Sampled:	11/06/12 12:02	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 20:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.73	81.5	50 - 110	
2-Fluorophenol	100.0	39.75	39.8	20 - 110	
Nitrobenzene-d5	50.00	40.47	80.9	40 - 110	
Phenol-d6	100.0	23.42	23.4	0 - 110	
Terphenyl-d14	50.00	47.73	95.5	50 - 135	X
2,4,6-Tribromophenol	100.0	84.43	84.4	40 - 125	

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	1106607.D
Sampled:	11/06/12 15:57	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 20:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
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	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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	UX
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

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	1106607.D
Sampled:	11/06/12 15:57	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 20:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.63	83.3	50 - 110	
2-Fluorophenol	100.0	35.54	35.5	20 - 110	
Nitrobenzene-d5	50.00	41.51	83.0	40 - 110	
Phenol-d6	100.0	21.68	21.7	0 - 110	
Terphenyl-d14	50.00	47.64	95.3	50 - 135	X
2,4,6-Tribromophenol	100.0	77.98	78.0	40 - 125	

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	1106609.D
Sampled:	11/05/12 13:00	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 20:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
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	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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	UX
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

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	1106609.D
Sampled:	11/05/12 13:00	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 20:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.58	81.2	50 - 110	
2-Fluorophenol	100.0	39.65	39.6	20 - 110	
Nitrobenzene-d5	50.00	41.43	82.9	40 - 110	
Phenol-d6	100.0	23.74	23.7	0 - 110	
Terphenyl-d14	50.00	47.04	94.1	50 - 135	X
2,4,6-Tribromophenol	100.0	87.57	87.6	40 - 125	

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	1106611.D
Sampled:	11/05/12 10:44	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 21:22
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
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	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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	UX
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

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	1106611.D
Sampled:	11/05/12 10:44	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 21:22
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	33.81	67.6	50 - 110	
2-Fluorophenol	100.0	31.24	31.2	20 - 110	
Nitrobenzene-d5	50.00	33.07	66.1	40 - 110	
Phenol-d6	100.0	18.59	18.6	0 - 110	
Terphenyl-d14	50.00	46.22	92.4	50 - 135	X
2,4,6-Tribromophenol	100.0	75.00	75.0	40 - 125	

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	1107401.D
Sampled:	11/07/12 10:39	Prepared:	11/09/12 09:30	Analyzed:	11/20/12 18:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

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

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	1107401.D
Sampled:	11/07/12 10:39	Prepared:	11/09/12 09:30	Analyzed:	11/20/12 18:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.33	86.7	50 - 110	
2-Fluorophenol	100.0	44.28	44.3	20 - 110	
Nitrobenzene-d5	50.00	44.01	88.0	40 - 110	
Phenol-d6	100.0	25.64	25.6	0 - 110	
Terphenyl-d14	50.00	50.04	100	50 - 135	
2,4,6-Tribromophenol	100.0	96.69	96.7	40 - 125	

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	1107403.D
Sampled:	11/07/12 12:59	Prepared:	11/09/12 09:30	Analyzed:	11/20/12 19:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

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

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	1107403.D
Sampled:	11/07/12 12:59	Prepared:	11/09/12 09:30	Analyzed:	11/20/12 19:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.98	84.0	50 - 110	
2-Fluorophenol	100.0	37.11	37.1	20 - 110	
Nitrobenzene-d5	50.00	42.35	84.7	40 - 110	
Phenol-d6	100.0	24.99	25.0	0 - 110	
Terphenyl-d14	50.00	47.57	95.1	50 - 135	
2,4,6-Tribromophenol	100.0	79.56	79.6	40 - 125	

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	1107404.D
Sampled:	11/07/12 15:17	Prepared:	11/09/12 09:30	Analyzed:	11/20/12 19:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

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

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	1107404.D
Sampled:	11/07/12 15:17	Prepared:	11/09/12 09:30	Analyzed:	11/20/12 19:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.24	86.5	50 - 110	
2-Fluorophenol	100.0	41.90	41.9	20 - 110	
Nitrobenzene-d5	50.00	43.82	87.6	40 - 110	
Phenol-d6	100.0	26.04	26.0	0 - 110	
Terphenyl-d14	50.00	49.36	98.7	50 - 135	
2,4,6-Tribromophenol	100.0	92.20	92.2	40 - 125	

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	1109101.D
Sampled:	11/08/12 10:37	Prepared:	11/13/12 11:30	Analyzed:	11/29/12 17:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K13003 Sequence: 2K33504 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone	**43.4**	1.23	2.45	4.90	
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	UX
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	UX
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	UX
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

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	1109101.D
Sampled:	11/08/12 10:37	Prepared:	11/13/12 11:30	Analyzed:	11/29/12 17:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K13003 Sequence: 2K33504 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	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	**1.32**	1.23	2.45	4.90	J
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	**4.65**	1.23	2.45	4.90	J
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	UX
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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	40.23	82.1	50 - 110	
2-Fluorophenol	98.04	31.52	32.2	20 - 110	
Nitrobenzene-d5	49.02	40.87	83.4	40 - 110	
Phenol-d6	98.04	21.38	21.8	0 - 110	
Terphenyl-d14	49.02	49.19	100	50 - 135	X
2,4,6-Tribromophenol	98.04	76.10	77.6	40 - 125	

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03RE1	File ID:	1109103D.D
Sampled:	11/08/12 13:51	Prepared:	11/13/12 11:30	Analyzed:	11/30/12 14:59
Solids:		Preparation:	EXT_3510	Dilution:	200

Batch: 2K13003 Sequence: 2L33805 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		245	490	980	U
208-96-8	Acenaphthylene		245	490	980	U
98-86-2	Acetophenone	**22100**	245	490	980	ED
120-12-7	Anthracene		245	490	980	U
1912-24-9	Atrazine		245	490	980	U
100-52-7	Benzaldehyde		245	490	980	U
92-87-5	Benzidine		2450	9800	19600	UX
56-55-3	Benzo(a)anthracene		245	490	980	U
50-32-8	Benzo(a)pyrene		245	490	980	U
205-99-2	Benzo(b)fluoranthene		245	490	980	U
191-24-2	Benzo(g,h,i)perylene		245	490	980	U
65-85-0	Benzoic acid		2450	9800	19600	U
207-08-9	Benzo(k)fluoranthene		245	490	980	U
92-52-4	1,1-Biphenyl		245	490	980	U
101-55-3	4-Bromophenyl-phenylether		245	490	980	U
85-68-7	Butylbenzylphthalate		245	490	980	U
105-60-2	Caprolactam		245	490	980	UX
86-74-8	Carbazole		245	490	980	U
59-50-7	4-Chloro-3-methylphenol		245	490	980	U
106-47-8	4-Chloroaniline		245	490	980	U
111-91-1	Bis(2-chloroethoxy)methane		245	490	980	U
111-44-4	Bis(2-chloroethyl)ether		245	490	980	U
108-60-1	2,2'-Oxybis-1-chloropropane		245	490	980	U
91-58-7	2-Chloronaphthalene		245	490	980	U
95-57-8	2-Chlorophenol		245	490	980	U
7005-72-3	4-Chlorophenyl phenyl ether		245	490	980	U
218-01-9	Chrysene		245	490	980	U
53-70-3	Dibenz(a,h)anthracene		245	490	980	U
132-64-9	Dibenzofuran		245	490	980	U
84-74-2	Di-n-butylphthalate		245	490	980	U
91-94-1	3,3'-Dichlorobenzidine		245	490	980	UX
120-83-2	2,4-Dichlorophenol		245	490	980	U
84-66-2	Diethylphthalate		245	490	980	U
105-67-9	2,4-Dimethylphenol		980	1960	3920	U
131-11-3	Dimethyl phthalate		245	490	980	U
534-52-1	4,6-Dinitro-2-methylphenol		980	1960	3920	U
51-28-5	2,4-Dinitrophenol		1630	4900	9800	UX
121-14-2	2,4-Dinitrotoluene		245	490	980	U
606-20-2	2,6-Dinitrotoluene		245	490	980	U
117-84-0	Di-n-octylphthalate		245	490	980	U

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:	Water	Laboratory ID:	1211091-03RE1	File ID:	1109103D.D
Sampled:	11/08/12 13:51	Prepared:	11/13/12 11:30	Analyzed:	11/30/12 14:59
Solids:		Preparation:	EXT_3510	Dilution:	200

Batch: 2K13003 Sequence: 2L33805 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		245	490	980	U
117-81-7	Bis(2-ethylhexyl)phthalate		245	490	980	U
206-44-0	Fluoranthene		245	490	980	U
86-73-7	Fluorene		245	490	980	U
118-74-1	Hexachlorobenzene		245	490	980	U
87-68-3	Hexachlorobutadiene		245	490	980	U
77-47-4	Hexachlorocyclopentadiene		245	980	1960	U
67-72-1	Hexachloroethane		245	490	980	U
193-39-5	Indeno(1,2,3-cd)pyrene		245	490	980	U
78-59-1	Isophorone		245	490	980	U
90-12-0	1-Methylnaphthalene		245	490	980	U
91-57-6	2-Methylnaphthalene		245	490	980	U
95-48-7	2-Methylphenol	**603**	245	490	980	JD
108-39-4/106	3-Methylphenol/4-Methylphenol		245	490	980	U
91-20-3	Naphthalene		245	490	980	U
100-01-6	4-Nitroaniline		980	1960	3920	U
99-09-2	3-Nitroaniline		980	1960	3920	U
88-74-4	2-Nitroaniline		980	1960	3920	U
98-95-3	Nitrobenzene		245	490	980	U
100-02-7	4-Nitrophenol		980	1960	3920	U
88-75-5	2-Nitrophenol		245	490	980	UX
86-30-6	N-Nitrosodiphenylamine		245	490	980	U
621-64-7	N-Nitroso-di-n-propylamine		245	490	980	U
87-86-5	Pentachlorophenol		980	1960	3920	U
85-01-8	Phenanthrene		245	490	980	U
108-95-2	Phenol		245	490	980	U
129-00-0	Pyrene		245	490	980	U
88-06-2	2,4,6-Trichlorophenol		245	490	980	U
95-95-4	2,4,5-Trichlorophenol		245	490	980	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	ND		50 - 110	DU
2-Fluorophenol	98.04	ND		20 - 110	DU
Nitrobenzene-d5	49.02	ND		40 - 110	DU
Phenol-d6	98.04	ND		0 - 110	DU
Terphenyl-d14	49.02	ND		50 - 135	DU
2,4,6-Tribromophenol	98.04	ND		40 - 125	DU

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03RE2	File ID:	110913D2.D
Sampled:	11/08/12 13:51	Prepared:	11/13/12 11:30	Analyzed:	11/30/12 17:24
Solids:		Preparation:	EXT_3510	Dilution:	1000

Batch: 2K13003 Sequence: 2L33805 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1230	2450	4900	U
208-96-8	Acenaphthylene		1230	2450	4900	U
98-86-2	Acetophenone	**28400**	1230	2450	4900	D
120-12-7	Anthracene		1230	2450	4900	U
1912-24-9	Atrazine		1230	2450	4900	U
100-52-7	Benzaldehyde		1230	2450	4900	U
92-87-5	Benzidine		12300	49000	98000	UX
56-55-3	Benzo(a)anthracene		1230	2450	4900	U
50-32-8	Benzo(a)pyrene		1230	2450	4900	U
205-99-2	Benzo(b)fluoranthene		1230	2450	4900	U
191-24-2	Benzo(g,h,i)perylene		1230	2450	4900	U
65-85-0	Benzoic acid		12300	49000	98000	U
207-08-9	Benzo(k)fluoranthene		1230	2450	4900	U
92-52-4	1,1-Biphenyl		1230	2450	4900	U
101-55-3	4-Bromophenyl-phenylether		1230	2450	4900	U
85-68-7	Butylbenzylphthalate		1230	2450	4900	U
105-60-2	Caprolactam		1230	2450	4900	UX
86-74-8	Carbazole		1230	2450	4900	U
59-50-7	4-Chloro-3-methylphenol		1230	2450	4900	U
106-47-8	4-Chloroaniline		1230	2450	4900	U
111-91-1	Bis(2-chloroethoxy)methane		1230	2450	4900	U
111-44-4	Bis(2-chloroethyl)ether		1230	2450	4900	U
108-60-1	2,2'-Oxybis-1-chloropropane		1230	2450	4900	U
91-58-7	2-Chloronaphthalene		1230	2450	4900	U
95-57-8	2-Chlorophenol		1230	2450	4900	U
7005-72-3	4-Chlorophenyl phenyl ether		1230	2450	4900	U
218-01-9	Chrysene		1230	2450	4900	U
53-70-3	Dibenz(a,h)anthracene		1230	2450	4900	U
132-64-9	Dibenzofuran		1230	2450	4900	U
84-74-2	Di-n-butylphthalate		1230	2450	4900	U
91-94-1	3,3'-Dichlorobenzidine		1230	2450	4900	UX
120-83-2	2,4-Dichlorophenol		1230	2450	4900	U
84-66-2	Diethylphthalate		1230	2450	4900	U
105-67-9	2,4-Dimethylphenol		4900	9800	19600	U
131-11-3	Dimethyl phthalate		1230	2450	4900	U
534-52-1	4,6-Dinitro-2-methylphenol		4900	9800	19600	U
51-28-5	2,4-Dinitrophenol		8170	24500	49000	UX
121-14-2	2,4-Dinitrotoluene		1230	2450	4900	U
606-20-2	2,6-Dinitrotoluene		1230	2450	4900	U
117-84-0	Di-n-octylphthalate		1230	2450	4900	U

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03RE2	File ID:	110913D2.D
Sampled:	11/08/12 13:51	Prepared:	11/13/12 11:30	Analyzed:	11/30/12 17:24
Solids:		Preparation:	EXT_3510	Dilution:	1000

Batch: 2K13003 Sequence: 2L33805 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1230	2450	4900	U
117-81-7	Bis(2-ethylhexyl)phthalate		1230	2450	4900	U
206-44-0	Fluoranthene		1230	2450	4900	U
86-73-7	Fluorene		1230	2450	4900	U
118-74-1	Hexachlorobenzene		1230	2450	4900	U
87-68-3	Hexachlorobutadiene		1230	2450	4900	U
77-47-4	Hexachlorocyclopentadiene		1230	4900	9800	U
67-72-1	Hexachloroethane		1230	2450	4900	U
193-39-5	Indeno(1,2,3-cd)pyrene		1230	2450	4900	U
78-59-1	Isophorone		1230	2450	4900	U
90-12-0	1-Methylnaphthalene		1230	2450	4900	U
91-57-6	2-Methylnaphthalene		1230	2450	4900	U
95-48-7	2-Methylphenol		1230	2450	4900	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1230	2450	4900	U
91-20-3	Naphthalene		1230	2450	4900	U
100-01-6	4-Nitroaniline		4900	9800	19600	U
99-09-2	3-Nitroaniline		4900	9800	19600	U
88-74-4	2-Nitroaniline		4900	9800	19600	U
98-95-3	Nitrobenzene		1230	2450	4900	U
100-02-7	4-Nitrophenol		4900	9800	19600	U
88-75-5	2-Nitrophenol		1230	2450	4900	UX
86-30-6	N-Nitrosodiphenylamine		1230	2450	4900	U
621-64-7	N-Nitroso-di-n-propylamine		1230	2450	4900	U
87-86-5	Pentachlorophenol		4900	9800	19600	U
85-01-8	Phenanthrene		1230	2450	4900	U
108-95-2	Phenol		1230	2450	4900	U
129-00-0	Pyrene		1230	2450	4900	U
88-06-2	2,4,6-Trichlorophenol		1230	2450	4900	U
95-95-4	2,4,5-Trichlorophenol		1230	2450	4900	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	ND		50 - 110	DU
2-Fluorophenol	98.04	ND		20 - 110	DU
Nitrobenzene-d5	49.02	ND		40 - 110	DU
Phenol-d6	98.04	ND		0 - 110	DU
Terphenyl-d14	49.02	ND		50 - 135	DU
2,4,6-Tribromophenol	98.04	ND		40 - 125	DU

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32014-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/14/12 12:11		
2-Fluorobiphenyl	50.00	102	80 - 120	8.614	8.614	0.0000	+/-0.500	
2-Fluorophenol	100.0	114	80 - 120	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	109	80 - 120	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	124	80 - 120	13.209	13.209	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	111	80 - 120	10.425	10.425	0.0000	+/-0.500	
Blank (2K08004-BLK1) ug/L				Lab File ID: K08004B1.D		Analyzed: 11/14/12 13:07		
2-Fluorobiphenyl	50.00	91.7	50 - 110	8.613	8.614	-0.0010	+/-0.500	
2-Fluorophenol	100.0	44.6	20 - 110	3.986	3.987	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	93.1	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	25.2	0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	50.00	108	50 - 135	13.208	13.209	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	10.424	10.425	-0.0010	+/-0.500	
LCS (2K08004-BS1) ug/L				Lab File ID: K08004L1.D		Analyzed: 11/14/12 13:34		
2-Fluorobiphenyl	50.00	60.8	50 - 110	8.606	8.614	-0.0080	+/-0.500	
2-Fluorophenol	100.0	37.7	20 - 110	3.99	3.987	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	61.3	40 - 110	6.298	6.295	0.0030	+/-0.500	
Phenol-d6	100.0	21.7	0 - 110	5.129	5.136	-0.0070	+/-0.500	
Terphenyl-d14	50.00	76.0	50 - 135	13.202	13.209	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	66.9	40 - 125	10.428	10.425	0.0030	+/-0.500	
GW0761 (1211066-01) ug/L				Lab File ID: 1106601D.D		Analyzed: 11/14/12 19:05		
2-Fluorobiphenyl	46.30		50 - 110	8.613	8.614	-0.0010	+/-0.500	*
2-Fluorophenol	92.59		20 - 110	3.987	3.987	0.0000	+/-0.500	*
Nitrobenzene-d5	46.30		40 - 110	6.295	6.295	0.0000	+/-0.500	*
Phenol-d6	92.59		0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	46.30		50 - 135	13.198	13.209	-0.0110	+/-0.500	*
2,4,6-Tribromophenol	92.59		40 - 125	10.424	10.425	-0.0010	+/-0.500	*
GW0765 (1211066-03) ug/L				Lab File ID: 1106603D.D		Analyzed: 11/14/12 19:33		
2-Fluorobiphenyl	49.02		50 - 110	8.607	8.614	-0.0070	+/-0.500	*
2-Fluorophenol	98.04		20 - 110	3.99	3.987	0.0030	+/-0.500	*
Nitrobenzene-d5	49.02		40 - 110	6.298	6.295	0.0030	+/-0.500	*
Phenol-d6	98.04		0 - 110	5.129	5.136	-0.0070	+/-0.500	
Terphenyl-d14	49.02		50 - 135	13.202	13.209	-0.0070	+/-0.500	*
2,4,6-Tribromophenol	98.04		40 - 125	10.428	10.425	0.0030	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0773 (1211066-05) ug/L				Lab File ID: 1106605.D		Analyzed: 11/14/12 20:00		
2-Fluorobiphenyl	50.00	81.5	50 - 110	8.613	8.614	-0.0010	+/-0.500	
2-Fluorophenol	100.0	39.8	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	80.9	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	23.4	0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	50.00	95.5	50 - 135	13.199	13.209	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	84.4	40 - 125	10.425	10.425	0.0000	+/-0.500	
GW0829 (1211066-07) ug/L				Lab File ID: 1106607.D		Analyzed: 11/14/12 20:27		
2-Fluorobiphenyl	50.00	83.3	50 - 110	8.604	8.614	-0.0100	+/-0.500	
2-Fluorophenol	100.0	35.5	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	83.0	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	21.7	0 - 110	5.126	5.136	-0.0100	+/-0.500	
Terphenyl-d14	50.00	95.3	50 - 135	13.199	13.209	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	78.0	40 - 125	10.425	10.425	0.0000	+/-0.500	
GW0858 (1211066-09) ug/L				Lab File ID: 1106609.D		Analyzed: 11/14/12 20:54		
2-Fluorobiphenyl	50.00	81.2	50 - 110	8.604	8.614	-0.0100	+/-0.500	
2-Fluorophenol	100.0	39.6	20 - 110	3.988	3.987	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	82.9	40 - 110	6.296	6.295	0.0010	+/-0.500	
Phenol-d6	100.0	23.7	0 - 110	5.127	5.136	-0.0090	+/-0.500	
Terphenyl-d14	50.00	94.1	50 - 135	13.2	13.209	-0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	87.6	40 - 125	10.426	10.425	0.0010	+/-0.500	
GW0859 (1211066-11) ug/L				Lab File ID: 1106611.D		Analyzed: 11/14/12 21:22		
2-Fluorobiphenyl	50.00	67.6	50 - 110	8.603	8.614	-0.0110	+/-0.500	
2-Fluorophenol	100.0	31.2	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	66.1	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	18.6	0 - 110	5.126	5.136	-0.0100	+/-0.500	
Terphenyl-d14	50.00	92.4	50 - 135	13.199	13.209	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	75.0	40 - 125	10.425	10.425	0.0000	+/-0.500	
Matrix Spike (2K08004-MS1) ug/L				Lab File ID: 1106605M.D		Analyzed: 11/14/12 22:17		
2-Fluorobiphenyl	50.00	88.5	50 - 110	8.613	8.614	-0.0010	+/-0.500	
2-Fluorophenol	100.0	49.1	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	90.4	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	27.8	0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	50.00	99.9	50 - 135	13.209	13.209	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	96.0	40 - 125	10.425	10.425	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (2K08004-MSD1) ug/L				Lab File ID: 1106605S.D		Analyzed: 11/14/12 22:44		
2-Fluorobiphenyl	49.02	84.7	50 - 110	8.613	8.614	-0.0010	+/-0.500	
2-Fluorophenol	98.04	43.8	20 - 110	3.986	3.987	-0.0010	+/-0.500	
Nitrobenzene-d5	49.02	83.2	40 - 110	6.294	6.295	-0.0010	+/-0.500	
Phenol-d6	98.04	25.6	0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	49.02	99.5	50 - 135	13.208	13.209	-0.0010	+/-0.500	
2,4,6-Tribromophenol	98.04	96.9	40 - 125	10.424	10.425	-0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32603	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32603-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/20/12 15:26		
2-Fluorobiphenyl	50.00	97.7	80 - 120	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	108	80 - 120	3.985	3.985	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.293	6.293	0.0000	+/-0.500	
Phenol-d6	100.0	105	80 - 120	5.134	5.134	0.0000	+/-0.500	
Terphenyl-d14	50.00	117	80 - 120	13.207	13.207	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	109	80 - 120	10.423	10.423	0.0000	+/-0.500	
Blank (2K09007-BLK1) ug/L				Lab File ID: K09007B1.D		Analyzed: 11/20/12 16:22		
2-Fluorobiphenyl	50.00	80.4	50 - 110	8.603	8.612	-0.0090	+/-0.500	
2-Fluorophenol	100.0	41.3	20 - 110	3.987	3.985	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	81.8	40 - 110	6.295	6.293	0.0020	+/-0.500	
Phenol-d6	100.0	23.7	0 - 110	5.125	5.134	-0.0090	+/-0.500	
Terphenyl-d14	50.00	94.6	50 - 135	13.198	13.207	-0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	88.2	40 - 125	10.424	10.423	0.0010	+/-0.500	
LCS (2K09007-BS1) ug/L				Lab File ID: K09007L1.D		Analyzed: 11/20/12 16:50		
2-Fluorobiphenyl	50.00	88.4	50 - 110	8.611	8.612	-0.0010	+/-0.500	
2-Fluorophenol	100.0	48.8	20 - 110	3.984	3.985	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	88.3	40 - 110	6.292	6.293	-0.0010	+/-0.500	
Phenol-d6	100.0	29.3	0 - 110	5.123	5.134	-0.0110	+/-0.500	
Terphenyl-d14	50.00	100	50 - 135	13.206	13.207	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	96.9	40 - 125	10.422	10.423	-0.0010	+/-0.500	
GW0772 (1211074-01) ug/L				Lab File ID: 1107401.D		Analyzed: 11/20/12 18:41		
2-Fluorobiphenyl	50.00	86.7	50 - 110	8.604	8.612	-0.0080	+/-0.500	
2-Fluorophenol	100.0	44.3	20 - 110	3.977	3.985	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	88.0	40 - 110	6.285	6.293	-0.0080	+/-0.500	
Phenol-d6	100.0	25.6	0 - 110	5.126	5.134	-0.0080	+/-0.500	
Terphenyl-d14	50.00	100	50 - 135	13.199	13.207	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	96.7	40 - 125	10.425	10.423	0.0020	+/-0.500	
GW0828 (1211074-03) ug/L				Lab File ID: 1107403.D		Analyzed: 11/20/12 19:09		
2-Fluorobiphenyl	50.00	84.0	50 - 110	8.611	8.612	-0.0010	+/-0.500	
2-Fluorophenol	100.0	37.1	20 - 110	3.985	3.985	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	84.7	40 - 110	6.293	6.293	0.0000	+/-0.500	
Phenol-d6	100.0	25.0	0 - 110	5.134	5.134	0.0000	+/-0.500	
Terphenyl-d14	50.00	95.1	50 - 135	13.207	13.207	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	79.6	40 - 125	10.422	10.423	-0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32603	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0830 (1211074-05) ug/L				Lab File ID: 1107404.D		Analyzed: 11/20/12 19:37		
2-Fluorobiphenyl	50.00	86.5	50 - 110	8.604	8.612	-0.0080	+/-0.500	
2-Fluorophenol	100.0	41.9	20 - 110	3.977	3.985	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	87.6	40 - 110	6.285	6.293	-0.0080	+/-0.500	
Phenol-d6	100.0	26.0	0 - 110	5.126	5.134	-0.0080	+/-0.500	
Terphenyl-d14	50.00	98.7	50 - 135	13.199	13.207	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	92.2	40 - 125	10.425	10.423	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33504	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K33504-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/29/12 15:17		
2-Fluorobiphenyl	50.00	99.7	80 - 120	8.611	8.611	0.0000	+/-0.500	
2-Fluorophenol	100.0	112	80 - 120	3.984	3.984	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	102	80 - 120	6.292	6.292	0.0000	+/-0.500	
Phenol-d6	100.0	107	80 - 120	5.133	5.133	0.0000	+/-0.500	
Terphenyl-d14	50.00	121	80 - 120	13.206	13.206	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	110	80 - 120	10.422	10.422	0.0000	+/-0.500	
Blank (2K13003-BLK1) ug/L				Lab File ID: K13003B1.D		Analyzed: 11/29/12 16:12		
2-Fluorobiphenyl	50.00	90.4	50 - 110	8.601	8.611	-0.0100	+/-0.500	
2-Fluorophenol	100.0	48.0	20 - 110	3.985	3.984	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	90.6	40 - 110	6.293	6.292	0.0010	+/-0.500	
Phenol-d6	100.0	28.2	0 - 110	5.134	5.133	0.0010	+/-0.500	
Terphenyl-d14	50.00	110	50 - 135	13.196	13.206	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	10.423	10.422	0.0010	+/-0.500	
LCS (2K13003-BS1) ug/L				Lab File ID: K13003L1.D		Analyzed: 11/29/12 16:40		
2-Fluorobiphenyl	50.00	88.4	50 - 110	8.604	8.611	-0.0070	+/-0.500	
2-Fluorophenol	100.0	51.8	20 - 110	3.988	3.984	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	92.0	40 - 110	6.296	6.292	0.0040	+/-0.500	
Phenol-d6	100.0	30.9	0 - 110	5.137	5.133	0.0040	+/-0.500	
Terphenyl-d14	50.00	100	50 - 135	13.199	13.206	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	99.0	40 - 125	10.426	10.422	0.0040	+/-0.500	
GW0757 (1211091-01) ug/L				Lab File ID: 1109101.D		Analyzed: 11/29/12 17:08		
2-Fluorobiphenyl	49.02	82.1	50 - 110	8.601	8.611	-0.0100	+/-0.500	
2-Fluorophenol	98.04	32.2	20 - 110	3.985	3.984	0.0010	+/-0.500	
Nitrobenzene-d5	49.02	83.4	40 - 110	6.293	6.292	0.0010	+/-0.500	
Phenol-d6	98.04	21.8	0 - 110	5.134	5.133	0.0010	+/-0.500	
Terphenyl-d14	49.02	100	50 - 135	13.197	13.206	-0.0090	+/-0.500	
2,4,6-Tribromophenol	98.04	77.6	40 - 125	10.423	10.422	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2L33805	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2L33805-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/30/12 14:02		
2-Fluorobiphenyl	50.00	98.3	80 - 120	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	109	80 - 120	3.985	3.985	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	103	80 - 120	6.293	6.293	0.0000	+/-0.500	
Phenol-d6	100.0	107	80 - 120	5.134	5.134	0.0000	+/-0.500	
Terphenyl-d14	50.00	119	80 - 120	13.207	13.207	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	107	80 - 120	10.423	10.423	0.0000	+/-0.500	
GW0831 (1211091-03RE1) ug/L				Lab File ID: 1109103D.D		Analyzed: 11/30/12 14:59		
2-Fluorobiphenyl	49.02		50 - 110		8.612	-8.6120	+/-0.500	*
2-Fluorophenol	98.04		20 - 110		3.985	-3.9850	+/-0.500	*
Nitrobenzene-d5	49.02		40 - 110		6.293	-6.2930	+/-0.500	*
Phenol-d6	98.04		0 - 110		5.134	-5.1340	+/-0.500	*
Terphenyl-d14	49.02		50 - 135		13.207	-13.2070	+/-0.500	*
2,4,6-Tribromophenol	98.04		40 - 125		10.423	-10.4230	+/-0.500	*
GW0831 (1211091-03RE2) ug/L				Lab File ID: 110913D2.D		Analyzed: 11/30/12 17:24		
2-Fluorobiphenyl	49.02		50 - 110		8.612	-8.6120	+/-0.500	*
2-Fluorophenol	98.04		20 - 110		3.985	-3.9850	+/-0.500	*
Nitrobenzene-d5	49.02		40 - 110		6.293	-6.2930	+/-0.500	*
Phenol-d6	98.04		0 - 110		5.134	-5.1340	+/-0.500	*
Terphenyl-d14	49.02		50 - 135		13.207	-13.2070	+/-0.500	*
2,4,6-Tribromophenol	98.04		40 - 125		10.423	-10.4230	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-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	34.28	18.76	54.7	45 - 110
Acenaphthylene	34.28	20.91	61.0	50 - 105
Acetophenone	35.72	23.55	65.9	45 - 130
Anthracene	34.28	21.23	61.9	55 - 110
Atrazine	35.72	23.29	65.2	40 - 150
Benzaldehyde	35.72	25.45	71.3	40 - 125
Benzidine	35.72	18.62	52.1	0 - 110
Benzo(a)anthracene	34.28	22.58	65.9	55 - 110
Benzo(a)pyrene	34.28	22.08	64.4	55 - 110
Benzo(b)fluoranthene	34.28	23.90	69.7	45 - 120
Benzo(g,h,i)perylene	34.28	22.53	65.7	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	34.28	20.77	60.6	45 - 125
1,1-Biphenyl	35.72	22.31	62.5	45 - 135
4-Bromophenyl-phenylether	34.28	21.32	62.2	50 - 115
Butylbenzylphthalate	34.28	24.90	72.6	45 - 115
Caprolactam	35.72	5.699	16.0	5 - 110
Carbazole	35.72	26.17	73.3	50 - 115
4-Chloro-3-methylphenol	70.70	44.72	63.3	45 - 110
4-Chloroaniline	35.72	33.44	93.6	15 - 110
Bis(2-chloroethoxy)methane	34.28	23.88	69.7	45 - 105
Bis(2-chloroethyl)ether	34.28	22.83	66.6	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	22.03	64.2	25 - 130
2-Chloronaphthalene	34.28	19.12	55.8	50 - 105
2-Chlorophenol	70.70	43.95	62.2	35 - 105
4-Chlorophenyl phenyl ether	34.28	20.36	59.4	50 - 110
Chrysene	34.28	22.26	64.9	55 - 110
Dibenz(a,h)anthracene	34.28	22.82	66.6	40 - 125
Dibenzofuran	34.28	20.70	60.4	55 - 105
Di-n-butylphthalate	34.28	24.40	71.2	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	25.17	70.5	20 - 110
2,4-Dichlorophenol	70.70	46.12	65.2	50 - 105
Diethylphthalate	34.28	20.40	59.5	40 - 120
2,4-Dimethylphenol	70.70	40.93	57.9	30 - 110
Dimethyl phthalate	34.28	21.79	63.6	25 - 125
4,6-Dinitro-2-methylphenol	70.70	47.66	67.4	40 - 130
2,4-Dinitrophenol	70.70	39.44	55.8	15 - 140
2,4-Dinitrotoluene	34.28	21.13	61.6	50 - 120
2,6-Dinitrotoluene	34.28	21.67	63.2	50 - 115
Di-n-octylphthalate	34.28	26.68	77.8	35 - 135
1,2-Diphenylhydrazine	35.72	23.52	65.9	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	25.18	73.5	40 - 125
Fluoranthene	34.28	22.75	66.4	55 - 115
Fluorene	34.28	20.13	58.7	50 - 110
Hexachlorobenzene	34.28	20.67	60.3	50 - 110
Hexachlorobutadiene	34.28	16.69	48.7	25 - 105
Hexachlorocyclopentadiene	34.28	15.58	45.4	0 - 120
Hexachloroethane	34.28	15.33	44.7	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	21.52	62.8	45 - 125
Isophorone	34.28	21.52	62.8	50 - 110
1-Methylnaphthalene	35.72	20.36	57.0	35 - 115
2-Methylnaphthalene	34.28	18.41	53.7	45 - 105
2-Methylphenol	70.70	38.92	55.1	40 - 110
3-Methylphenol/4-Methylphenol	70.70	34.06	48.2	30 - 110
Naphthalene	34.28	20.25	59.1	40 - 100
4-Nitroaniline	35.72	29.50	82.6	35 - 120
3-Nitroaniline	35.72	32.45	90.9	20 - 125
2-Nitroaniline	35.72	25.79	72.2	50 - 115
Nitrobenzene	34.28	20.41	59.5	45 - 110
4-Nitrophenol	70.70	14.40	20.4	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	50.18	71.0	40 - 115
N-Nitrosodiphenylamine	34.28	19.62	57.2	50 - 110
N-Nitroso-di-n-propylamine	34.28	21.46	62.6	35 - 130
Pentachlorophenol	70.70	41.19	58.3	40 - 115
Phenanthrene	34.28	22.16	64.6	50 - 115
Phenol	70.70	16.51	23.4	0 - 115
Pyrene	34.28	22.72	66.3	50 - 130
2,4,6-Trichlorophenol	70.70	41.81	59.1	50 - 115
2,4,5-Trichlorophenol	70.70	47.24	66.8	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09007	Laboratory ID:	2K09007-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	34.28	29.40	85.8	45 - 110
Acenaphthylene	34.28	31.14	90.8	50 - 105
Acetophenone	35.72	32.38	90.7	45 - 130
Anthracene	34.28	31.70	92.5	55 - 110
Atrazine	35.72	33.17	92.9	40 - 150
Benzaldehyde	35.72	35.87	100	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	34.28	33.51	97.7	55 - 110
Benzo(a)pyrene	34.28	30.70	89.5	55 - 110
Benzo(b)fluoranthene	34.28	31.19	91.0	45 - 120
Benzo(g,h,i)perylene	34.28	32.65	95.2	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	34.28	32.48	94.7	45 - 125
1,1-Biphenyl	35.72	33.41	93.6	45 - 135
4-Bromophenyl-phenylether	34.28	34.17	99.7	50 - 115
Butylbenzylphthalate	34.28	38.79	113	45 - 115
Caprolactam	35.72	6.827	19.1	5 - 110
Carbazole	35.72	38.29	107	50 - 115
4-Chloro-3-methylphenol	70.70	58.78	83.1	45 - 110
4-Chloroaniline	35.72	31.26	87.5	15 - 110
Bis(2-chloroethoxy)methane	34.28	32.87	95.9	45 - 105
Bis(2-chloroethyl)ether	34.28	32.33	94.3	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	32.10	93.6	25 - 130
2-Chloronaphthalene	34.28	28.12	82.0	50 - 105
2-Chlorophenol	70.70	56.88	80.5	35 - 105
4-Chlorophenyl phenyl ether	34.28	31.05	90.6	50 - 110
Chrysene	34.28	32.14	93.7	55 - 110
Dibenz(a,h)anthracene	34.28	33.12	96.6	40 - 125
Dibenzofuran	34.28	31.36	91.5	55 - 105
Di-n-butylphthalate	34.28	35.55	104	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09007	Laboratory ID:	2K09007-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	35.03	98.1	20 - 110
2,4-Dichlorophenol	70.70	62.04	87.8	50 - 105
Diethylphthalate	34.28	30.67	89.4	40 - 120
2,4-Dimethylphenol	70.70	55.35	78.3	30 - 110
Dimethyl phthalate	34.28	31.76	92.6	25 - 125
4,6-Dinitro-2-methylphenol	70.70	70.62	99.9	40 - 130
2,4-Dinitrophenol	70.70	62.28	88.1	15 - 140
2,4-Dinitrotoluene	34.28	32.52	94.8	50 - 120
2,6-Dinitrotoluene	34.28	32.50	94.8	50 - 115
Di-n-octylphthalate	34.28	38.65	113	35 - 135
1,2-Diphenylhydrazine	35.72	34.74	97.3	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	38.67	113	40 - 125
Fluoranthene	34.28	32.93	96.0	55 - 115
Fluorene	34.28	30.84	90.0	50 - 110
Hexachlorobenzene	34.28	31.67	92.4	50 - 110
Hexachlorobutadiene	34.28	26.09	76.1	25 - 105
Hexachlorocyclopentadiene	34.28	24.95	72.8	0 - 120
Hexachloroethane	34.28	22.95	66.9	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	30.79	89.8	45 - 125
Isophorone	34.28	29.80	86.9	50 - 110
1-Methylnaphthalene	35.72	29.39	82.3	35 - 115
2-Methylnaphthalene	34.28	27.25	79.5	45 - 105
2-Methylphenol	70.70	49.56	70.1	40 - 110
3-Methylphenol/4-Methylphenol	70.70	43.19	61.1	30 - 110
Naphthalene	34.28	28.58	83.4	40 - 100
4-Nitroaniline	35.72	38.94	109	35 - 120
3-Nitroaniline	35.72	34.66	97.1	20 - 125
2-Nitroaniline	35.72	36.91	103	50 - 115
Nitrobenzene	34.28	28.55	83.3	45 - 110
4-Nitrophenol	70.70	20.17	28.5	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09007	Laboratory ID:	2K09007-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	70.02	99.0	40 - 115
N-Nitrosodiphenylamine	34.28	29.30	85.4	50 - 110
N-Nitroso-di-n-propylamine	34.28	29.68	86.6	35 - 130
Pentachlorophenol	70.70	64.96	91.9	40 - 115
Phenanthrene	34.28	32.46	94.7	50 - 115
Phenol	70.70	20.70	29.3	0 - 115
Pyrene	34.28	34.51	101	50 - 130
2,4,6-Trichlorophenol	70.70	60.95	86.2	50 - 115
2,4,5-Trichlorophenol	70.70	67.72	95.8	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13003	Laboratory ID:	2K13003-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	34.28	28.83	84.1	45 - 110
Acenaphthylene	34.28	30.74	89.7	50 - 105
Acetophenone	35.72	34.01	95.2	45 - 130
Anthracene	34.28	31.92	93.1	55 - 110
Atrazine	35.72	32.30	90.4	40 - 150
Benzaldehyde	35.72	37.39	105	40 - 125
Benzidine	35.72	13.47	37.7	0 - 110
Benzo(a)anthracene	34.28	32.21	94.0	55 - 110
Benzo(a)pyrene	34.28	31.02	90.5	55 - 110
Benzo(b)fluoranthene	34.28	32.54	94.9	45 - 120
Benzo(g,h,i)perylene	34.28	33.20	96.8	40 - 125
Benzoic acid	70.70	14.07	19.9	0 - 125
Benzo(k)fluoranthene	34.28	29.87	87.1	45 - 125
1,1-Biphenyl	35.72	33.13	92.8	45 - 135
4-Bromophenyl-phenylether	34.28	33.66	98.2	50 - 115
Butylbenzylphthalate	34.28	37.05	108	45 - 115
Caprolactam	35.72	7.107	19.9	5 - 110
Carbazole	35.72	37.92	106	50 - 115
4-Chloro-3-methylphenol	70.70	59.92	84.8	45 - 110
4-Chloroaniline	35.72	33.53	93.9	15 - 110
Bis(2-chloroethoxy)methane	34.28	34.24	99.9	45 - 105
Bis(2-chloroethyl)ether	34.28	32.96	96.1	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	33.29	97.1	25 - 130
2-Chloronaphthalene	34.28	28.01	81.7	50 - 105
2-Chlorophenol	70.70	58.59	82.9	35 - 105
4-Chlorophenyl phenyl ether	34.28	29.49	86.0	50 - 110
Chrysene	34.28	32.54	94.9	55 - 110
Dibenz(a,h)anthracene	34.28	33.82	98.7	40 - 125
Dibenzofuran	34.28	30.21	88.1	55 - 105
Di-n-butylphthalate	34.28	35.50	104	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13003	Laboratory ID:	2K13003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	36.13	101	20 - 110
2,4-Dichlorophenol	70.70	63.96	90.5	50 - 105
Diethylphthalate	34.28	30.46	88.9	40 - 120
2,4-Dimethylphenol	70.70	58.34	82.5	30 - 110
Dimethyl phthalate	34.28	32.13	93.7	25 - 125
4,6-Dinitro-2-methylphenol	70.70	75.31	107	40 - 130
2,4-Dinitrophenol	70.70	72.88	103	15 - 140
2,4-Dinitrotoluene	34.28	31.56	92.1	50 - 120
2,6-Dinitrotoluene	34.28	32.28	94.1	50 - 115
Di-n-octylphthalate	34.28	37.81	110	35 - 135
1,2-Diphenylhydrazine	35.72	35.62	99.7	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	36.73	107	40 - 125
Fluoranthene	34.28	33.28	97.1	55 - 115
Fluorene	34.28	29.54	86.2	50 - 110
Hexachlorobenzene	34.28	31.69	92.4	50 - 110
Hexachlorobutadiene	34.28	25.53	74.5	25 - 105
Hexachlorocyclopentadiene	34.28	26.25	76.6	0 - 120
Hexachloroethane	34.28	22.74	66.3	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	31.26	91.2	45 - 125
Isophorone	34.28	31.19	91.0	50 - 110
1-Methylnaphthalene	35.72	30.25	84.7	35 - 115
2-Methylnaphthalene	34.28	27.91	81.4	45 - 105
2-Methylphenol	70.70	51.31	72.6	40 - 110
3-Methylphenol/4-Methylphenol	70.70	45.58	64.5	30 - 110
Naphthalene	34.28	28.80	84.0	40 - 100
4-Nitroaniline	35.72	37.91	106	35 - 120
3-Nitroaniline	35.72	35.04	98.1	20 - 125
2-Nitroaniline	35.72	36.72	103	50 - 115
Nitrobenzene	34.28	30.07	87.7	45 - 110
4-Nitrophenol	70.70	20.55	29.1	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13003	Laboratory ID:	2K13003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	73.67	104	40 - 115
N-Nitrosodiphenylamine	34.28	29.40	85.7	50 - 110
N-Nitroso-di-n-propylamine	34.28	31.84	92.9	35 - 130
Pentachlorophenol	70.70	65.28	92.3	40 - 115
Phenanthrene	34.28	32.00	93.3	50 - 115
Phenol	70.70	21.73	30.7	0 - 115
Pyrene	34.28	33.26	97.0	50 - 130
2,4,6-Trichlorophenol	70.70	61.56	87.1	50 - 115
2,4,5-Trichlorophenol	70.70	64.83	91.7	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08004

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	34.28	ND	28.44	83.0		45 - 110
Acenaphthylene	34.28	ND	30.61	89.3		50 - 105
Acetophenone	35.72	ND	33.44	93.6		45 - 130
Anthracene	34.28	ND	30.86	90.0		55 - 110
Atrazine	35.72	ND	32.71	91.6		40 - 150
Benzaldehyde	35.72	ND	36.15	101		40 - 125
Benzidine	35.72	ND	100 U	0		0 - 110
Benzo(a)anthracene	34.28	ND	31.57	92.1		55 - 110
Benzo(a)pyrene	34.28	ND	31.25	91.1		55 - 110
Benzo(b)fluoranthene	34.28	ND	31.61	92.2		45 - 120
Benzo(g,h,i)perylene	34.28	ND	33.15	96.7		40 - 125
Benzoic acid	70.70	ND	100 U	0		0 - 125
Benzo(k)fluoranthene	34.28	ND	31.62	92.2		45 - 125
1,1-Biphenyl	35.72	ND	32.32	90.5		45 - 135
4-Bromophenyl-phenylether	34.28	ND	31.94	93.2		50 - 115
Butylbenzylphthalate	34.28	ND	36.52	107		45 - 115
Caprolactam	35.72	ND	6.170	17.3		5 - 110
Carbazole	35.72	ND	37.33	105		50 - 115
4-Chloro-3-methylphenol	70.70	ND	59.35	83.9		45 - 110
4-Chloroaniline	35.72	ND	31.87	89.2		15 - 110
Bis(2-chloroethoxy)methane	34.28	ND	33.29	97.1		45 - 105
Bis(2-chloroethyl)ether	34.28	ND	31.52	91.9		35 - 110
2,2'-Oxybis-1-chloropropane	34.28	ND	32.28	94.2		25 - 130
2-Chloronaphthalene	34.28	ND	28.58	83.4		50 - 105
2-Chlorophenol	70.70	ND	58.23	82.4		35 - 105
4-Chlorophenyl phenyl ether	34.28	ND	29.42	85.8		50 - 110
Chrysene	34.28	ND	31.46	91.8		55 - 110
Dibenz(a,h)anthracene	34.28	ND	32.40	94.5		40 - 125
Dibenzofuran	34.28	ND	30.49	88.9		55 - 105
Di-n-butylphthalate	34.28	ND	35.16	103		55 - 115
3,3'-Dichlorobenzidine	35.72	ND	32.04	89.7		20 - 110
2,4-Dichlorophenol	70.70	ND	62.95	89.0		50 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08004

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	34.28	ND	29.51	86.1		40 - 120
2,4-Dimethylphenol	70.70	ND	54.23	76.7		30 - 110
Dimethyl phthalate	34.28	ND	30.66	89.4		25 - 125
4,6-Dinitro-2-methylphenol	70.70	ND	67.33	95.2		40 - 130
2,4-Dinitrophenol	70.70	ND	53.61	75.8		15 - 140
2,4-Dinitrotoluene	34.28	ND	30.46	88.8		50 - 120
2,6-Dinitrotoluene	34.28	ND	30.41	88.7		50 - 115
Di-n-octylphthalate	34.28	ND	38.90	113		35 - 135
1,2-Diphenylhydrazine	35.72	ND	34.35	96.2		55 - 115
Bis(2-ethylhexyl)phthalate	34.28	ND	37.56	110		40 - 125
Fluoranthene	34.28	ND	32.63	95.2		55 - 115
Fluorene	34.28	ND	29.59	86.3		50 - 110
Hexachlorobenzene	34.28	ND	31.33	91.4		50 - 110
Hexachlorobutadiene	34.28	ND	28.80	84.0		25 - 105
Hexachlorocyclopentadiene	34.28	ND	26.36	76.9		0 - 120
Hexachloroethane	34.28	ND	24.90	72.6		30 - 100
Indeno(1,2,3-cd)pyrene	34.28	ND	31.01	90.4		45 - 125
Isophorone	34.28	ND	30.56	89.1		50 - 110
1-Methylnaphthalene	35.72	ND	31.85	89.2		35 - 115
2-Methylnaphthalene	34.28	ND	28.40	82.8		45 - 105
2-Methylphenol	70.70	ND	48.44	68.5		40 - 110
3-Methylphenol/4-Methylphenol	70.70	ND	43.32	61.3		30 - 110
Naphthalene	34.28	ND	29.79	86.9		40 - 100
4-Nitroaniline	35.72	ND	35.01	98.0		35 - 120
3-Nitroaniline	35.72	ND	32.71	91.6		20 - 125
2-Nitroaniline	35.72	ND	34.67	97.1		50 - 115
Nitrobenzene	34.28	ND	29.80	86.9		45 - 110
4-Nitrophenol	70.70	ND	19.17	27.1		0 - 125
2-Nitrophenol	70.70	ND	71.01	100		40 - 115
N-Nitrosodiphenylamine	34.28	ND	29.17	85.1		50 - 110
N-Nitroso-di-n-propylamine	34.28	ND	30.40	88.7		35 - 130
Pentachlorophenol	70.70	ND	63.15	89.3		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08004

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	34.28	ND	31.86	92.9		50 - 115
Phenol	70.70	ND	20.72	29.3		0 - 115
Pyrene	34.28	ND	32.84	95.8		50 - 130
2,4,6-Trichlorophenol	70.70	ND	60.74	85.9		50 - 115
2,4,5-Trichlorophenol	70.70	ND	63.06	89.2		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08004

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	33.61	27.52	81.9	3.29		30	45 - 110
Acenaphthylene	33.61	29.89	88.9	2.40		30	50 - 105
Acetophenone	35.01	31.25	89.3	6.77		30	45 - 130
Anthracene	33.61	30.60	91.0	0.848		30	55 - 110
Atrazine	35.01	31.96	91.3	2.33		30	40 - 150
Benzaldehyde	35.01	34.79	99.4	3.83		30	40 - 125
Benzidine	35.01	14.80	42.3			30	0 - 110
Benzo(a)anthracene	33.61	31.44	93.5	0.428		30	55 - 110
Benzo(a)pyrene	33.61	31.04	92.3	0.670		30	55 - 110
Benzo(b)fluoranthene	33.61	31.23	92.9	1.19		30	45 - 120
Benzo(g,h,i)perylene	33.61	33.10	98.5	0.130		30	40 - 125
Benzoic acid	69.31	98.0 U	0			30	0 - 125
Benzo(k)fluoranthene	33.61	32.96	98.1	4.17		30	45 - 125
1,1-Biphenyl	35.01	30.60	87.4	5.46		30	45 - 135
4-Bromophenyl-phenylether	33.61	31.78	94.5	0.517		30	50 - 115
Butylbenzylphthalate	33.61	36.54	109	0.0739		30	45 - 115
Caprolactam	35.01	6.362	18.2	3.06		30	5 - 110
Carbazole	35.01	36.89	105	1.17		30	50 - 115
4-Chloro-3-methylphenol	69.31	56.13	81.0	5.58		30	45 - 110
4-Chloroaniline	35.01	30.04	85.8	5.91		30	15 - 110
Bis(2-chloroethoxy)methane	33.61	31.31	93.2	6.13		30	45 - 105
Bis(2-chloroethyl)ether	33.61	30.25	90.0	4.10		30	35 - 110
2,2'-Oxybis-1-chloropropane	33.61	30.38	90.4	6.06		30	25 - 130
2-Chloronaphthalene	33.61	27.54	81.9	3.71		30	50 - 105
2-Chlorophenol	69.31	54.28	78.3	7.02		30	35 - 105
4-Chlorophenyl phenyl ether	33.61	28.33	84.3	3.78		30	50 - 110
Chrysene	33.61	31.20	92.8	0.820		30	55 - 110
Dibenz(a,h)anthracene	33.61	32.92	97.9	1.58		30	40 - 125
Dibenzofuran	33.61	29.72	88.4	2.55		30	55 - 105
Di-n-butylphthalate	33.61	35.24	105	0.222		30	55 - 115
3,3'-Dichlorobenzidine	35.01	32.04	91.5	0.000655		30	20 - 110
2,4-Dichlorophenol	69.31	58.87	84.9	6.70		30	50 - 105
Diethylphthalate	33.61	29.02	86.3	1.70		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08004

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	69.31	49.49	71.4	9.14		30	30 - 110
Dimethyl phthalate	33.61	30.27	90.1	1.28		30	25 - 125
4,6-Dinitro-2-methylphenol	69.31	71.23	103	5.64		30	40 - 130
2,4-Dinitrophenol	69.31	53.53	77.2	0.143		30	15 - 140
2,4-Dinitrotoluene	33.61	30.61	91.1	0.487		30	50 - 120
2,6-Dinitrotoluene	33.61	29.41	87.5	3.35		30	50 - 115
Di-n-octylphthalate	33.61	38.89	116	0.0362		30	35 - 135
1,2-Diphenylhydrazine	35.01	34.17	97.6	0.534		30	55 - 115
Bis(2-ethylhexyl)phthalate	33.61	37.03	110	1.42		30	40 - 125
Fluoranthene	33.61	32.68	97.2	0.147		30	55 - 115
Fluorene	33.61	28.63	85.2	3.30		30	50 - 110
Hexachlorobenzene	33.61	30.96	92.1	1.20		30	50 - 110
Hexachlorobutadiene	33.61	26.67	79.3	7.67		30	25 - 105
Hexachlorocyclopentadiene	33.61	25.16	74.9	4.65		30	0 - 120
Hexachloroethane	33.61	24.15	71.8	3.06		30	30 - 100
Indeno(1,2,3-cd)pyrene	33.61	30.86	91.8	0.491		30	45 - 125
Isophorone	33.61	28.92	86.0	5.53		30	50 - 110
1-Methylnaphthalene	35.01	29.63	84.6	7.22		30	35 - 115
2-Methylnaphthalene	33.61	26.83	79.8	5.70		30	45 - 105
2-Methylphenol	69.31	45.37	65.5	6.55		30	40 - 110
3-Methylphenol/4-Methylphenol	69.31	40.69	58.7	6.28		30	30 - 110
Naphthalene	33.61	28.27	84.1	5.26		30	40 - 100
4-Nitroaniline	35.01	34.73	99.2	0.805		30	35 - 120
3-Nitroaniline	35.01	32.21	92.0	1.54		30	20 - 125
2-Nitroaniline	35.01	33.93	96.9	2.15		30	50 - 115
Nitrobenzene	33.61	27.34	81.3	8.62		30	45 - 110
4-Nitrophenol	69.31	18.66	26.9	2.71		30	0 - 125
2-Nitrophenol	69.31	67.39	97.2	5.22		30	40 - 115
N-Nitrosodiphenylamine	33.61	28.47	84.7	2.42		30	50 - 110
N-Nitroso-di-n-propylamine	33.61	29.09	86.5	4.41		30	35 - 130
Pentachlorophenol	69.31	64.59	93.2	2.25		30	40 - 115
Phenanthrene	33.61	31.40	93.4	1.48		30	50 - 115
Phenol	69.31	17.93	25.9	14.4		30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08004

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	33.61	32.57	96.9	0.826		30	50 - 130
2,4,6-Trichlorophenol	69.31	59.44	85.8	2.17		30	50 - 115
2,4,5-Trichlorophenol	69.31	63.38	91.4	0.493		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K08004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/08/12 09:35	1,080.00	1.00
GW0765	1211066-03	11/08/12 09:35	1,020.00	1.00
GW0773	1211066-05	11/08/12 09:35	1,000.00	1.00
GW0829	1211066-07	11/08/12 09:35	1,000.00	1.00
GW0858	1211066-09	11/08/12 09:35	1,000.00	1.00
GW0859	1211066-11	11/08/12 09:35	1,000.00	1.00
Blank	2K08004-BLK1	11/08/12 09:35	1,000.00	1.00
LCS	2K08004-BS1	11/08/12 09:35	1,000.00	1.00
GW0773	2K08004-MS1	11/08/12 09:35	1,000.00	1.00
GW0773	2K08004-MSD1	11/08/12 09:35	1,020.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K09007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0772	1211074-01	11/09/12 09:30	1,000.00	1.00
GW0828	1211074-03	11/09/12 09:30	1,000.00	1.00
GW0830	1211074-05	11/09/12 09:30	1,000.00	1.00
Blank	2K09007-BLK1	11/09/12 09:30	1,000.00	1.00
LCS	2K09007-BS1	11/09/12 09:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K13003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/13/12 11:30	1,020.00	1.00
GW0831	1211091-03RE1	11/13/12 11:30	1,020.00	1.00
GW0831	1211091-03RE2	11/13/12 11:30	1,020.00	1.00
Blank	2K13003-BLK1	11/13/12 11:30	1,000.00	1.00
LCS	2K13003-BS1	11/13/12 11:30	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K08004-BLK1 File ID: K08004B1.D

Sampled: Prepared: Analyzed: 11/14/12 13:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
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	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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	UX
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_070

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

Matrix: Laboratory ID: 2K08004-BLK1 File ID: K08004B1.D

Sampled: Prepared: Analyzed: 11/14/12 13:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.87	91.7	50 - 110	
2-Fluorophenol	100.0	44.62	44.6	20 - 110	
Nitrobenzene-d5	50.00	46.57	93.1	40 - 110	
Phenol-d6	100.0	25.22	25.2	0 - 110	
Terphenyl-d14	50.00	53.80	108	50 - 135	X
2,4,6-Tribromophenol	100.0	101.4	101	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K08004-BS1 File ID: K08004L1.D

Sampled: Prepared: Analyzed: 11/14/12 13:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**18.76**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**20.91**	1.25	2.50	5.00	
98-86-2	Acetophenone	**23.55**	1.25	2.50	5.00	
120-12-7	Anthracene	**21.23**	1.25	2.50	5.00	
1912-24-9	Atrazine	**23.29**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**25.45**	1.25	2.50	5.00	
92-87-5	Benzidine	**18.62**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**22.58**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**22.08**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**23.90**	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	**22.53**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**20.77**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**22.31**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**21.32**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**24.90**	1.25	2.50	5.00	
105-60-2	Caprolactam	**5.699**	1.25	2.50	5.00	X
86-74-8	Carbazole	**26.17**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**44.72**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**33.44**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**23.88**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**22.83**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**22.03**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**19.12**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**43.95**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**20.36**	1.25	2.50	5.00	
218-01-9	Chrysene	**22.26**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**22.82**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**20.70**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**24.40**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**25.17**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**46.12**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**20.40**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**40.93**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**21.79**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**47.66**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**39.44**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**21.13**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**21.67**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**26.68**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K08004-BS1 | File ID: K08004L1.D

Sampled: | Prepared: | Analyzed: 11/14/12 13:34

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K08004 | Sequence: 2K32014 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**23.52**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**25.18**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**22.75**	1.25	2.50	5.00	
86-73-7	Fluorene	**20.13**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**20.67**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**16.69**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**15.58**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**15.33**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**21.52**	1.25	2.50	5.00	
78-59-1	Isophorone	**21.52**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**20.36**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**18.41**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**38.92**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**34.06**	1.25	2.50	5.00	
91-20-3	Naphthalene	**20.25**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**29.50**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**32.45**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**25.79**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**20.41**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**14.40**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**50.18**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**19.62**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**21.46**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**41.19**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**22.16**	1.25	2.50	5.00	
108-95-2	Phenol	**16.51**	1.25	2.50	5.00	
129-00-0	Pyrene	**22.72**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**41.81**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**47.24**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	30.40	60.8	50 - 110	
2-Fluorophenol	100.0	37.68	37.7	20 - 110	
Nitrobenzene-d5	50.00	30.67	61.3	40 - 110	
Phenol-d6	100.0	21.73	21.7	0 - 110	
Terphenyl-d14	50.00	37.99	76.0	50 - 135	X
2,4,6-Tribromophenol	100.0	66.91	66.9	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K08004-MS1 File ID: 1106605M.D

Sampled: Prepared: Analyzed: 11/14/12 22:17

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**28.44**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**30.61**	1.25	2.50	5.00	
98-86-2	Acetophenone	**33.44**	1.25	2.50	5.00	
120-12-7	Anthracene	**30.86**	1.25	2.50	5.00	
1912-24-9	Atrazine	**32.71**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**36.15**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**31.57**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**31.25**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**31.61**	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	**33.15**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**31.62**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**32.32**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**31.94**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**36.52**	1.25	2.50	5.00	
105-60-2	Caprolactam	**6.170**	1.25	2.50	5.00	X
86-74-8	Carbazole	**37.33**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**59.35**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**31.87**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**33.29**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**31.52**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**32.28**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**28.58**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**58.23**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**29.42**	1.25	2.50	5.00	
218-01-9	Chrysene	**31.46**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**32.40**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**30.49**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**35.16**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**32.04**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**62.95**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**29.51**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**54.23**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**30.66**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**67.33**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**53.61**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**30.46**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**30.41**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**38.90**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K08004-MS1	File ID:	1106605M.D
Sampled:		Prepared:		Analyzed:	11/14/12 22:17
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**34.35**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**37.56**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**32.63**	1.25	2.50	5.00	
86-73-7	Fluorene	**29.59**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**31.33**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**28.80**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**26.36**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**24.90**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**31.01**	1.25	2.50	5.00	
78-59-1	Isophorone	**30.56**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**31.85**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**28.40**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**48.44**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**43.32**	1.25	2.50	5.00	
91-20-3	Naphthalene	**29.79**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**35.01**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**32.71**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**34.67**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**29.80**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**19.17**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**71.01**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**29.17**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**30.40**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**63.15**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**31.86**	1.25	2.50	5.00	
108-95-2	Phenol	**20.72**	1.25	2.50	5.00	
129-00-0	Pyrene	**32.84**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**60.74**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**63.06**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.27	88.5	50 - 110	
2-Fluorophenol	100.0	49.14	49.1	20 - 110	
Nitrobenzene-d5	50.00	45.21	90.4	40 - 110	
Phenol-d6	100.0	27.75	27.8	0 - 110	
Terphenyl-d14	50.00	49.96	99.9	50 - 135	X
2,4,6-Tribromophenol	100.0	96.03	96.0	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K08004-MSD1 File ID: 1106605S.D

Sampled: Prepared: Analyzed: 11/14/12 22:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**27.52**	1.23	2.45	4.90	
208-96-8	Acenaphthylene	**29.89**	1.23	2.45	4.90	
98-86-2	Acetophenone	**31.25**	1.23	2.45	4.90	
120-12-7	Anthracene	**30.60**	1.23	2.45	4.90	
1912-24-9	Atrazine	**31.96**	1.23	2.45	4.90	
100-52-7	Benzaldehyde	**34.79**	1.23	2.45	4.90	
92-87-5	Benzidine	**14.80**	12.3	49.0	98.0	XJ
56-55-3	Benzo(a)anthracene	**31.44**	1.23	2.45	4.90	
50-32-8	Benzo(a)pyrene	**31.04**	1.23	2.45	4.90	
205-99-2	Benzo(b)fluoranthene	**31.23**	1.23	2.45	4.90	X
191-24-2	Benzo(g,h,i)perylene	**33.10**	1.23	2.45	4.90	
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene	**32.96**	1.23	2.45	4.90	
92-52-4	1,1-Biphenyl	**30.60**	1.23	2.45	4.90	
101-55-3	4-Bromophenyl-phenylether	**31.78**	1.23	2.45	4.90	
85-68-7	Butylbenzylphthalate	**36.54**	1.23	2.45	4.90	
105-60-2	Caprolactam	**6.362**	1.23	2.45	4.90	X
86-74-8	Carbazole	**36.89**	1.23	2.45	4.90	
59-50-7	4-Chloro-3-methylphenol	**56.13**	1.23	2.45	4.90	
106-47-8	4-Chloroaniline	**30.04**	1.23	2.45	4.90	
111-91-1	Bis(2-chloroethoxy)methane	**31.31**	1.23	2.45	4.90	
111-44-4	Bis(2-chloroethyl)ether	**30.25**	1.23	2.45	4.90	
108-60-1	2,2'-Oxybis-1-chloropropane	**30.38**	1.23	2.45	4.90	
91-58-7	2-Chloronaphthalene	**27.54**	1.23	2.45	4.90	
95-57-8	2-Chlorophenol	**54.28**	1.23	2.45	4.90	
7005-72-3	4-Chlorophenyl phenyl ether	**28.33**	1.23	2.45	4.90	
218-01-9	Chrysene	**31.20**	1.23	2.45	4.90	
53-70-3	Dibenz(a,h)anthracene	**32.92**	1.23	2.45	4.90	
132-64-9	Dibenzofuran	**29.72**	1.23	2.45	4.90	
84-74-2	Di-n-butylphthalate	**35.24**	1.23	2.45	4.90	
91-94-1	3,3'-Dichlorobenzidine	**32.04**	1.23	2.45	4.90	X
120-83-2	2,4-Dichlorophenol	**58.87**	1.23	2.45	4.90	
84-66-2	Diethylphthalate	**29.02**	1.23	2.45	4.90	
105-67-9	2,4-Dimethylphenol	**49.49**	4.90	9.80	19.6	
131-11-3	Dimethyl phthalate	**30.27**	1.23	2.45	4.90	
534-52-1	4,6-Dinitro-2-methylphenol	**71.23**	4.90	9.80	19.6	X
51-28-5	2,4-Dinitrophenol	**53.53**	8.17	24.5	49.0	
121-14-2	2,4-Dinitrotoluene	**30.61**	1.23	2.45	4.90	
606-20-2	2,6-Dinitrotoluene	**29.41**	1.23	2.45	4.90	
117-84-0	Di-n-octylphthalate	**38.89**	1.23	2.45	4.90	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K08004-MSD1 File ID: 1106605S.D

Sampled: Prepared: Analyzed: 11/14/12 22:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**34.17**	1.23	2.45	4.90	
117-81-7	Bis(2-ethylhexyl)phthalate	**37.03**	1.23	2.45	4.90	
206-44-0	Fluoranthene	**32.68**	1.23	2.45	4.90	
86-73-7	Fluorene	**28.63**	1.23	2.45	4.90	
118-74-1	Hexachlorobenzene	**30.96**	1.23	2.45	4.90	
87-68-3	Hexachlorobutadiene	**26.67**	1.23	2.45	4.90	
77-47-4	Hexachlorocyclopentadiene	**25.16**	1.23	4.90	9.80	
67-72-1	Hexachloroethane	**24.15**	1.23	2.45	4.90	
193-39-5	Indeno(1,2,3-cd)pyrene	**30.86**	1.23	2.45	4.90	
78-59-1	Isophorone	**28.92**	1.23	2.45	4.90	
90-12-0	1-Methylnaphthalene	**29.63**	1.23	2.45	4.90	
91-57-6	2-Methylnaphthalene	**26.83**	1.23	2.45	4.90	
95-48-7	2-Methylphenol	**45.37**	1.23	2.45	4.90	
108-39-4/106	3-Methylphenol/4-Methylphenol	**40.69**	1.23	2.45	4.90	
91-20-3	Naphthalene	**28.27**	1.23	2.45	4.90	
100-01-6	4-Nitroaniline	**34.73**	4.90	9.80	19.6	
99-09-2	3-Nitroaniline	**32.21**	4.90	9.80	19.6	
88-74-4	2-Nitroaniline	**33.93**	4.90	9.80	19.6	
98-95-3	Nitrobenzene	**27.34**	1.23	2.45	4.90	
100-02-7	4-Nitrophenol	**18.66**	4.90	9.80	19.6	J
88-75-5	2-Nitrophenol	**67.39**	1.23	2.45	4.90	X
86-30-6	N-Nitrosodiphenylamine	**28.47**	1.23	2.45	4.90	
621-64-7	N-Nitroso-di-n-propylamine	**29.09**	1.23	2.45	4.90	
87-86-5	Pentachlorophenol	**64.59**	4.90	9.80	19.6	
85-01-8	Phenanthrene	**31.40**	1.23	2.45	4.90	
108-95-2	Phenol	**17.93**	1.23	2.45	4.90	
129-00-0	Pyrene	**32.57**	1.23	2.45	4.90	
88-06-2	2,4,6-Trichlorophenol	**59.44**	1.23	2.45	4.90	
95-95-4	2,4,5-Trichlorophenol	**63.38**	1.23	2.45	4.90	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	41.54	84.7	50 - 110	
2-Fluorophenol	98.04	42.98	43.8	20 - 110	
Nitrobenzene-d5	49.02	40.80	83.2	40 - 110	
Phenol-d6	98.04	25.08	25.6	0 - 110	
Terphenyl-d14	49.02	48.77	99.5	50 - 135	X
2,4,6-Tribromophenol	98.04	95.03	96.9	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K09007-BLK1 File ID: K09007B1.D

Sampled: Prepared: Analyzed: 11/20/12 16:22

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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_070

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

Matrix: Laboratory ID: 2K09007-BLK1 File ID: K09007B1.D

Sampled: Prepared: Analyzed: 11/20/12 16:22

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K09007 Sequence: 2K32603 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
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	40.22	80.4	50 - 110	
2-Fluorophenol	100.0	41.34	41.3	20 - 110	
Nitrobenzene-d5	50.00	40.92	81.8	40 - 110	
Phenol-d6	100.0	23.74	23.7	0 - 110	
Terphenyl-d14	50.00	47.32	94.6	50 - 135	
2,4,6-Tribromophenol	100.0	88.20	88.2	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K09007-BS1 | File ID: K09007L1.D

Sampled: | Prepared: | Analyzed: 11/20/12 16:50

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K09007 | Sequence: 2K32603 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**29.40**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**31.14**	1.25	2.50	5.00	
98-86-2	Acetophenone	**32.38**	1.25	2.50	5.00	
120-12-7	Anthracene	**31.70**	1.25	2.50	5.00	
1912-24-9	Atrazine	**33.17**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**35.87**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**33.51**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**30.70**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**31.19**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**32.65**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**32.48**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**33.41**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**34.17**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**38.79**	1.25	2.50	5.00	
105-60-2	Caprolactam	**6.827**	1.25	2.50	5.00	X
86-74-8	Carbazole	**38.29**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**58.78**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**31.26**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**32.87**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**32.33**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**32.10**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**28.12**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**56.88**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**31.05**	1.25	2.50	5.00	
218-01-9	Chrysene	**32.14**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**33.12**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**31.36**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**35.55**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**35.03**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**62.04**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**30.67**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**55.35**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**31.76**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**70.62**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**62.28**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**32.52**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**32.50**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**38.65**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K09007-BS1 | File ID: K09007L1.D

Sampled: | Prepared: | Analyzed: 11/20/12 16:50

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K09007 | Sequence: 2K32603 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**34.74**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**38.67**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**32.93**	1.25	2.50	5.00	
86-73-7	Fluorene	**30.84**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**31.67**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**26.09**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**24.95**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**22.95**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**30.79**	1.25	2.50	5.00	
78-59-1	Isophorone	**29.80**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**29.39**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**27.25**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**49.56**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**43.19**	1.25	2.50	5.00	
91-20-3	Naphthalene	**28.58**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**38.94**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**34.66**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**36.91**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**28.55**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**20.17**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**70.02**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**29.30**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**29.68**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**64.96**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**32.46**	1.25	2.50	5.00	
108-95-2	Phenol	**20.70**	1.25	2.50	5.00	
129-00-0	Pyrene	**34.51**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**60.95**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**67.72**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.22	88.4	50 - 110	
2-Fluorophenol	100.0	48.82	48.8	20 - 110	
Nitrobenzene-d5	50.00	44.16	88.3	40 - 110	
Phenol-d6	100.0	29.32	29.3	0 - 110	
Terphenyl-d14	50.00	50.08	100	50 - 135	
2,4,6-Tribromophenol	100.0	96.94	96.9	40 - 125	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Matrix: Laboratory ID: 2K13003-BLK1 File ID: K13003B1.D

Sampled: Prepared: Analyzed: 11/29/12 16:12

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K13003 Sequence: 2K33504 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
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_070

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

Matrix: Laboratory ID: 2K13003-BLK1 File ID: K13003B1.D

Sampled: Prepared: Analyzed: 11/29/12 16:12

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K13003 Sequence: 2K33504 Calibration: 2261001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.21	90.4	50 - 110	
2-Fluorophenol	100.0	48.04	48.0	20 - 110	
Nitrobenzene-d5	50.00	45.30	90.6	40 - 110	
Phenol-d6	100.0	28.21	28.2	0 - 110	
Terphenyl-d14	50.00	55.02	110	50 - 135	X
2,4,6-Tribromophenol	100.0	100.6	101	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K13003-BS1 | File ID: K13003L1.D

Sampled: | Prepared: | Analyzed: 11/29/12 16:40

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K13003 | Sequence: 2K33504 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**28.83**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**30.74**	1.25	2.50	5.00	
98-86-2	Acetophenone	**34.01**	1.25	2.50	5.00	
120-12-7	Anthracene	**31.92**	1.25	2.50	5.00	
1912-24-9	Atrazine	**32.30**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**37.39**	1.25	2.50	5.00	
92-87-5	Benzidine	**13.47**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**32.21**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**31.02**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**32.54**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**33.20**	1.25	2.50	5.00	
65-85-0	Benzoic acid	**14.07**	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	**29.87**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**33.13**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**33.66**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**37.05**	1.25	2.50	5.00	
105-60-2	Caprolactam	**7.107**	1.25	2.50	5.00	X
86-74-8	Carbazole	**37.92**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**59.92**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**33.53**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**34.24**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**32.96**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**33.29**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**28.01**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**58.59**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**29.49**	1.25	2.50	5.00	
218-01-9	Chrysene	**32.54**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**33.82**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**30.21**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**35.50**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**36.13**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**63.96**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**30.46**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**58.34**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**32.13**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**75.31**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**72.88**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**31.56**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**32.28**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**37.81**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_070

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

Matrix: | Laboratory ID: 2K13003-BS1 | File ID: K13003L1.D

Sampled: | Prepared: | Analyzed: 11/29/12 16:40

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K13003 | Sequence: 2K33504 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**35.62**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**36.73**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**33.28**	1.25	2.50	5.00	
86-73-7	Fluorene	**29.54**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**31.69**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**25.53**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**26.25**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**22.74**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**31.26**	1.25	2.50	5.00	
78-59-1	Isophorone	**31.19**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**30.25**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**27.91**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**51.31**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**45.58**	1.25	2.50	5.00	
91-20-3	Naphthalene	**28.80**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**37.91**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**35.04**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**36.72**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**30.07**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**20.55**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**73.67**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**29.40**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**31.84**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**65.28**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**32.00**	1.25	2.50	5.00	
108-95-2	Phenol	**21.73**	1.25	2.50	5.00	
129-00-0	Pyrene	**33.26**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**61.56**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**64.83**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.20	88.4	50 - 110	
2-Fluorophenol	100.0	51.85	51.8	20 - 110	
Nitrobenzene-d5	50.00	45.98	92.0	40 - 110	
Phenol-d6	100.0	30.89	30.9	0 - 110	
Terphenyl-d14	50.00	49.98	100	50 - 135	X
2,4,6-Tribromophenol	100.0	98.95	99.0	40 - 125	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/11/12
Instrument ID:	MS-BNA3	Injection Time:	10:14
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN1

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/12/12
Instrument ID:	MS-BNA3	Injection Time:	15:25
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN2

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/14/12
Instrument ID:	MS-BNA3	Injection Time:	11:48
Sequence:	2K32014	Lab Sample ID:	2K32014-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	35.4	PASS
70	Less than 2% of 69	0.731	PASS
127	40 - 60% of 198	45.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.03	PASS
275	10 - 30% of 198	23.8	PASS
365	1 - 200% of 198	2.15	PASS
441	0.001 - 100% of 443	66.1	PASS
442	40 - 200% of 198	60	PASS
443	17 - 23% of 442	20.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/20/12
Instrument ID:	MS-BNA3	Injection Time:	15:03
Sequence:	2K32603	Lab Sample ID:	2K32603-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	35.7	PASS
68	Less than 2% of 69	0.8	PASS
69	Less than 200% of 198	43.3	PASS
70	Less than 2% of 69	0.87	PASS
127	40 - 60% of 198	47.5	PASS
197	Less than 1% of 198	0.0318	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.63	PASS
275	10 - 30% of 198	24.7	PASS
365	1 - 200% of 198	2.54	PASS
441	0.001 - 100% of 443	64.1	PASS
442	40 - 200% of 198	86.7	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/29/12
Instrument ID:	MS-BNA3	Injection Time:	14:54
Sequence:	2K33504	Lab Sample ID:	2K33504-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	36.9	PASS
68	Less than 2% of 69	0.896	PASS
69	Less than 200% of 198	42.1	PASS
70	Less than 2% of 69	0.368	PASS
127	40 - 60% of 198	46.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.05	PASS
275	10 - 30% of 198	24.3	PASS
365	1 - 200% of 198	2.3	PASS
441	0.001 - 100% of 443	69.7	PASS
442	40 - 200% of 198	79.1	PASS
443	17 - 23% of 442	20.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/30/12
Instrument ID:	MS-BNA3	Injection Time:	13:38
Sequence:	2L33805	Lab Sample ID:	2L33805-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	42.2	PASS
70	Less than 2% of 69	0.518	PASS
127	40 - 60% of 198	48.9	PASS
197	Less than 1% of 198	0.931	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.33	PASS
275	10 - 30% of 198	25.9	PASS
365	1 - 200% of 198	2.83	PASS
441	0.001 - 100% of 443	67.2	PASS
442	40 - 200% of 198	82.4	PASS
443	17 - 23% of 442	21.1	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I25803	Instrument:	MS-BNA3
Calibration:	2261001		

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

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32014-TUN1	SEQ-TUN1.D	11/14/12 11:48
Calibration Check	2K32014-CCV1	SEQ-CCV1.D	11/14/12 12:11
Calibration Check	2K32014-CCV2	SEQ-CCV2.D	11/14/12 12:39
Blank	2K08004-BLK1	K08004B1.D	11/14/12 13:07
LCS	2K08004-BS1	K08004L1.D	11/14/12 13:34
GW0761	1211066-01	1106601D.D	11/14/12 19:05
GW0765	1211066-03	1106603D.D	11/14/12 19:33
GW0773	1211066-05	1106605.D	11/14/12 20:00
GW0829	1211066-07	1106607.D	11/14/12 20:27
GW0858	1211066-09	1106609.D	11/14/12 20:54
GW0859	1211066-11	1106611.D	11/14/12 21:22
GW0773	2K08004-MS1	1106605M.D	11/14/12 22:17
GW0773	2K08004-MSD1	1106605S.D	11/14/12 22:44

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32603	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32603-TUN1	SEQ-TUN1.D	11/20/12 15:03
Calibration Check	2K32603-CCV1	SEQ-CCV1.D	11/20/12 15:26
Calibration Check	2K32603-CCV2	SEQ-CCV2.D	11/20/12 15:55
Blank	2K09007-BLK1	K09007B1.D	11/20/12 16:22
LCS	2K09007-BS1	K09007L1.D	11/20/12 16:50
GW0772	1211074-01	1107401.D	11/20/12 18:41
GW0828	1211074-03	1107403.D	11/20/12 19:09
GW0830	1211074-05	1107404.D	11/20/12 19:37

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33504	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K33504-TUN1	SEQ-TUN1.D	11/29/12 14:54
Calibration Check	2K33504-CCV1	SEQ-CCV1.D	11/29/12 15:17
Calibration Check	2K33504-CCV2	SEQ-CCV2.D	11/29/12 15:45
Blank	2K13003-BLK1	K13003B1.D	11/29/12 16:12
LCS	2K13003-BS1	K13003L1.D	11/29/12 16:40
GW0757	1211091-01	1109101.D	11/29/12 17:08

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2L33805	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2L33805-TUN1	SEQ-TUN1.D	11/30/12 13:38
Calibration Check	2L33805-CCV1	SEQ-CCV1.D	11/30/12 14:02
Calibration Check	2L33805-CCV2	SEQ-CCV2.D	11/30/12 14:30
GW0831	1211091-03RE1	1109103D.D	11/30/12 14:59
GW0831	1211091-03RE2	110913D2.D	11/30/12 17:24

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32014-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/14/12 12:11			
1,4-Dichlorobenzene-d4	622930	5.529	692783	5.592	90	50 - 200	-0.0630	+/-0.50	
Naphthalene-d8	2206565	7.196	2409624	7.268	92	50 - 200	-0.0720	+/-0.50	
Acenaphthene-d10	1371087	9.442	1479598	9.504	93	50 - 200	-0.0620	+/-0.50	
Phenanthrene-d10	2150822	11.242	2454205	11.305	88	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	2134604	14.544	2419622	14.71	88	50 - 200	-0.1660	+/-0.50	
Perylene-d12	2119920	16.645	2394332	16.987	89	50 - 200	-0.3420	+/-0.50	
Calibration Check (2K32014-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/14/12 12:39			
1,4-Dichlorobenzene-d4	643306	5.521	622930	5.529	103	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2243083	7.198	2206565	7.196	102	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1411814	9.444	1371087	9.442	103	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2207816	11.245	2150822	11.242	103	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2212251	14.536	2134604	14.544	104	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2195092	16.647	2119920	16.645	104	50 - 200	0.0020	+/-0.50	
Blank (2K08004-BLK1)			Lab File ID: K08004B1.D			Analyzed: 11/14/12 13:07			
1,4-Dichlorobenzene-d4	602668	5.529	622930	5.529	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2097609	7.195	2206565	7.196	95	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1315063	9.441	1371087	9.442	96	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2046502	11.242	2150822	11.242	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2069467	14.544	2134604	14.544	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	2048535	16.645	2119920	16.645	97	50 - 200	0.0000	+/-0.50	
LCS (2K08004-BS1)			Lab File ID: K08004L1.D			Analyzed: 11/14/12 13:34			
1,4-Dichlorobenzene-d4	636818	5.522	622930	5.529	102	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2203804	7.199	2206565	7.196	100	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1417085	9.445	1371087	9.442	103	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2182427	11.245	2150822	11.242	101	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2187242	14.537	2134604	14.544	102	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2142341	16.648	2119920	16.645	101	50 - 200	0.0030	+/-0.50	
GW0761 (1211066-01)			Lab File ID: 1106601D.D			Analyzed: 11/14/12 19:05			
1,4-Dichlorobenzene-d4	587185	5.529	622930	5.529	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2086719	7.195	2206565	7.196	95	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1321754	9.441	1371087	9.442	96	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2058176	11.242	2150822	11.242	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2098646	14.544	2134604	14.544	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	2064503	16.645	2119920	16.645	97	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0765 (1211066-03)			Lab File ID: 1106603D.D			Analyzed: 11/14/12 19:33			
1,4-Dichlorobenzene-d4	581315	5.522	622930	5.529	93	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2008636	7.199	2206565	7.196	91	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1302404	9.445	1371087	9.442	95	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2059146	11.235	2150822	11.242	96	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	2037735	14.537	2134604	14.544	95	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2028402	16.638	2119920	16.645	96	50 - 200	-0.0070	+/-0.50	
GW0773 (1211066-05)			Lab File ID: 1106605.D			Analyzed: 11/14/12 20:00			
1,4-Dichlorobenzene-d4	610459	5.529	622930	5.529	98	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2156584	7.195	2206565	7.196	98	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1356679	9.441	1371087	9.442	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2120170	11.242	2150822	11.242	99	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2130835	14.534	2134604	14.544	100	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2118264	16.645	2119920	16.645	100	50 - 200	0.0000	+/-0.50	
GW0829 (1211066-07)			Lab File ID: 1106607.D			Analyzed: 11/14/12 20:27			
1,4-Dichlorobenzene-d4	552205	5.53	622930	5.529	89	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1975435	7.196	2206565	7.196	90	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1248951	9.442	1371087	9.442	91	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1957810	11.243	2150822	11.242	91	50 - 200	0.0010	+/-0.50	
Chrysene-d12	1995116	14.534	2134604	14.544	93	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1935740	16.646	2119920	16.645	91	50 - 200	0.0010	+/-0.50	
GW0858 (1211066-09)			Lab File ID: 1106609.D			Analyzed: 11/14/12 20:54			
1,4-Dichlorobenzene-d4	627152	5.53	622930	5.529	101	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2207352	7.197	2206565	7.196	100	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1414498	9.443	1371087	9.442	103	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2198303	11.243	2150822	11.242	102	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2230565	14.535	2134604	14.544	104	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2178833	16.646	2119920	16.645	103	50 - 200	0.0010	+/-0.50	
GW0859 (1211066-11)			Lab File ID: 1106611.D			Analyzed: 11/14/12 21:22			
1,4-Dichlorobenzene-d4	585451	5.529	622930	5.529	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2097759	7.196	2206565	7.196	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1316346	9.442	1371087	9.442	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2074001	11.243	2150822	11.242	96	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2066205	14.534	2134604	14.544	97	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2005774	16.645	2119920	16.645	95	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (2K08004-MS1)			Lab File ID: 1106605M.D			Analyzed: 11/14/12 22:17			
1,4-Dichlorobenzene-d4	593728	5.529	622930	5.529	95	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2061932	7.195	2206565	7.196	93	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1313521	9.441	1371087	9.442	96	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2020987	11.242	2150822	11.242	94	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2026870	14.544	2134604	14.544	95	50 - 200	0.0000	+/-0.50	
Perylene-d12	2011407	16.645	2119920	16.645	95	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (2K08004-MSD1)			Lab File ID: 1106605S.D			Analyzed: 11/14/12 22:44			
1,4-Dichlorobenzene-d4	616870	5.528	622930	5.529	99	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2171624	7.205	2206565	7.196	98	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	1357703	9.441	1371087	9.442	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2096610	11.242	2150822	11.242	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2090905	14.543	2134604	14.544	98	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2061875	16.645	2119920	16.645	97	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32603	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32603-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/20/12 15:26			
1,4-Dichlorobenzene-d4	636885	5.527	692783	5.592	92	50 - 200	-0.0650	+/-0.50	
Naphthalene-d8	2198914	7.194	2409624	7.268	91	50 - 200	-0.0740	+/-0.50	
Acenaphthene-d10	1375244	9.44	1479598	9.504	93	50 - 200	-0.0640	+/-0.50	
Phenanthrene-d10	2141627	11.24	2454205	11.305	87	50 - 200	-0.0650	+/-0.50	
Chrysene-d12	2162656	14.542	2419622	14.71	89	50 - 200	-0.1680	+/-0.50	
Perylene-d12	2171152	16.643	2394332	16.987	91	50 - 200	-0.3440	+/-0.50	
Calibration Check (2K32603-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/20/12 15:55			
1,4-Dichlorobenzene-d4	618608	5.528	636885	5.527	97	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2195623	7.195	2198914	7.194	100	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1374050	9.441	1375244	9.44	100	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2137185	11.242	2141627	11.24	100	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2112300	14.533	2162656	14.542	98	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2090076	16.644	2171152	16.643	96	50 - 200	0.0010	+/-0.50	
Blank (2K09007-BLK1)			Lab File ID: K09007B1.D			Analyzed: 11/20/12 16:22			
1,4-Dichlorobenzene-d4	652789	5.518	636885	5.527	102	50 - 200	-0.0090	+/-0.50	
Naphthalene-d8	2291222	7.195	2198914	7.194	104	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1431242	9.441	1375244	9.44	104	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2204218	11.242	2141627	11.24	103	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2182363	14.533	2162656	14.542	101	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2178221	16.645	2171152	16.643	100	50 - 200	0.0020	+/-0.50	
LCS (2K09007-BS1)			Lab File ID: K09007L1.D			Analyzed: 11/20/12 16:50			
1,4-Dichlorobenzene-d4	644235	5.526	636885	5.527	101	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2235299	7.193	2198914	7.194	102	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1357381	9.439	1375244	9.44	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2155599	11.24	2141627	11.24	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2110533	14.541	2162656	14.542	98	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2169137	16.642	2171152	16.643	100	50 - 200	-0.0010	+/-0.50	
GW0772 (1211074-01)			Lab File ID: 1107401.D			Analyzed: 11/20/12 18:41			
1,4-Dichlorobenzene-d4	655714	5.519	636885	5.527	103	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2209052	7.196	2198914	7.194	100	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1382749	9.442	1375244	9.44	101	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2136256	11.243	2141627	11.24	100	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2149832	14.534	2162656	14.542	99	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2176409	16.635	2171152	16.643	100	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32603	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0828 (1211074-03)			Lab File ID: 1107403.D			Analyzed: 11/20/12 19:09			
1,4-Dichlorobenzene-d4	614631	5.527	636885	5.527	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2144190	7.193	2198914	7.194	98	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1364814	9.439	1375244	9.44	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2134495	11.24	2141627	11.24	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2232908	14.542	2162656	14.542	103	50 - 200	0.0000	+/-0.50	
Perylene-d12	2221705	16.643	2171152	16.643	102	50 - 200	0.0000	+/-0.50	
GW0830 (1211074-05)			Lab File ID: 1107404.D			Analyzed: 11/20/12 19:37			
1,4-Dichlorobenzene-d4	662656	5.52	636885	5.527	104	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2288481	7.196	2198914	7.194	104	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1443292	9.442	1375244	9.44	105	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2173065	11.243	2141627	11.24	101	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2202569	14.534	2162656	14.542	102	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2214410	16.636	2171152	16.643	102	50 - 200	-0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33504	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K33504-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/29/12 15:17			
1,4-Dichlorobenzene-d4	604387	5.526	692783	5.592	87	50 - 200	-0.0660	+/-0.50	
Naphthalene-d8	2165833	7.193	2409624	7.268	90	50 - 200	-0.0750	+/-0.50	
Acenaphthene-d10	1331573	9.439	1479598	9.504	90	50 - 200	-0.0650	+/-0.50	
Phenanthrene-d10	2059083	11.24	2454205	11.305	84	50 - 200	-0.0650	+/-0.50	
Chrysene-d12	2012289	14.541	2419622	14.71	83	50 - 200	-0.1690	+/-0.50	
Perylene-d12	2093450	16.643	2394332	16.987	87	50 - 200	-0.3440	+/-0.50	
Calibration Check (2K33504-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/29/12 15:45			
1,4-Dichlorobenzene-d4	618033	5.528	604387	5.526	102	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2155110	7.194	2165833	7.193	100	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1325790	9.44	1331573	9.439	100	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2048572	11.241	2059083	11.24	99	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2002822	14.543	2012289	14.541	100	50 - 200	0.0020	+/-0.50	
Perylene-d12	2043414	16.644	2093450	16.643	98	50 - 200	0.0010	+/-0.50	
Blank (2K13003-BLK1)			Lab File ID: K13003B1.D			Analyzed: 11/29/12 16:12			
1,4-Dichlorobenzene-d4	623925	5.527	604387	5.526	103	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2233810	7.193	2165833	7.193	103	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1360871	9.439	1331573	9.439	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2106432	11.24	2059083	11.24	102	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2045886	14.542	2012289	14.541	102	50 - 200	0.0010	+/-0.50	
Perylene-d12	2082232	16.643	2093450	16.643	99	50 - 200	0.0000	+/-0.50	
LCS (2K13003-BS1)			Lab File ID: K13003L1.D			Analyzed: 11/29/12 16:40			
1,4-Dichlorobenzene-d4	658737	5.52	604387	5.526	109	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2298216	7.196	2165833	7.193	106	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1439923	9.442	1331573	9.439	108	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2208371	11.243	2059083	11.24	107	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2198868	14.545	2012289	14.541	109	50 - 200	0.0040	+/-0.50	
Perylene-d12	2213276	16.646	2093450	16.643	106	50 - 200	0.0030	+/-0.50	
GW0757 (1211091-01)			Lab File ID: 1109101.D			Analyzed: 11/29/12 17:08			
1,4-Dichlorobenzene-d4	595027	5.527	604387	5.526	98	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2073319	7.194	2165833	7.193	96	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1305722	9.44	1331573	9.439	98	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1996299	11.24	2059083	11.24	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1996886	14.532	2012289	14.541	99	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2033212	16.643	2093450	16.643	97	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2L33805	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2L33805-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/30/12 14:02			
1,4-Dichlorobenzene-d4	545373	5.527	692783	5.592	79	50 - 200	-0.0650	+/-0.50	
Naphthalene-d8	1926080	7.194	2409624	7.268	80	50 - 200	-0.0740	+/-0.50	
Acenaphthene-d10	1225289	9.44	1479598	9.504	83	50 - 200	-0.0640	+/-0.50	
Phenanthrene-d10	1943688	11.241	2454205	11.305	79	50 - 200	-0.0640	+/-0.50	
Chrysene-d12	1978244	14.542	2419622	14.71	82	50 - 200	-0.1680	+/-0.50	
Perylene-d12	2104935	16.643	2394332	16.987	88	50 - 200	-0.3440	+/-0.50	
Calibration Check (2L33805-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/30/12 14:30			
1,4-Dichlorobenzene-d4	548944	5.526	545373	5.527	101	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1911435	7.193	1926080	7.194	99	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1216676	9.439	1225289	9.44	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1934327	11.24	1943688	11.241	100	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1989903	14.541	1978244	14.542	101	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2107517	16.642	2104935	16.643	100	50 - 200	-0.0010	+/-0.50	
GW0831 (1211091-03RE1)			Lab File ID: 1109103D.D			Analyzed: 11/30/12 14:59			
1,4-Dichlorobenzene-d4	571795	5.526	545373	5.527	105	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1912067	7.193	1926080	7.194	99	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1231992	9.439	1225289	9.44	101	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1979222	11.24	1943688	11.241	102	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2266002	14.541	1978244	14.542	115	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2230680	16.643	2104935	16.643	106	50 - 200	0.0000	+/-0.50	
GW0831 (1211091-03RE2)			Lab File ID: 110913D2.D			Analyzed: 11/30/12 17:24			
1,4-Dichlorobenzene-d4	556215	5.516	545373	5.527	102	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	1931096	7.193	1926080	7.194	100	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1255096	9.439	1225289	9.44	102	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1988887	11.24	1943688	11.241	102	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2155398	14.541	1978244	14.542	109	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2236979	16.642	2104935	16.643	106	50 - 200	-0.0010	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.226402	10	1.172004	20	1.216724	40	1.106133	50	1.105635	60	1.066451
Acenaphthylene	5	1.882626	10	1.825223	20	1.853268	40	1.686654	50	1.630586	60	1.58258
Acetophenone												
Aniline	5	2.075085	10	2.083071	20	2.115921	40	2.012055	50	1.981178	60	1.922491
Anthracene	5	1.190117	10	1.216677	20	1.210592	40	1.133693	50	1.074923	60	1.027613
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.07808	10	1.158464	20	1.187972	40	1.125607	50	1.111216	60	1.080801
Benzo(a)pyrene	5	0.8969984	10	0.988024	20	1.053969	40	1.082485	50	1.050188	60	1.047536
Benzo(b)fluoranthene	5	0.9192774	10	0.9995984	20	1.027394	40	1.163507	50	1.151156	60	1.102624
Benzo(g,h,i)perylene	5	0.8810196	10	0.9354534	20	1.023945	40	1.041762	50	1.031788	60	1.025219
Benzoic acid	5	0.1800138	10	0.1971305	20	0.2320922	40	0.2667048	50	0.3038777	60	0.2934733
Benzo(k)fluoranthene	5	1.385345	10	1.389508	20	1.50509	40	1.294027	50	1.247302	60	1.255501
Benzyl alcohol	5	0.7723651	10	0.8400763	20	0.84085	40	0.8585047	50	0.855408	60	0.8444593
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2285879	10	0.242289	20	0.2441512	40	0.2392219	50	0.2372267	60	0.2395644
Butylbenzylphthalate	5	0.4630096	10	0.4944857	20	0.5607301	40	0.557858	50	0.5631426	60	0.5528675
Caprolactam												
Carbazole	5	1.067151	10	1.166965	20	1.142299	40	1.080385	50	1.01809	60	0.9924129
4-Chloro-3-methylphenol	5	0.2949249	10	0.3240161	20	0.3402999	40	0.3358677	50	0.3333448	60	0.3279835
4-Chloroaniline	5	0.437418	10	0.4487067	20	0.4701531	40	0.4455991	50	0.4474384	60	0.4368809
Bis(2-chloroethoxy)methane	5	0.4529439	10	0.460763	20	0.4579347	40	0.437325	50	0.43609	60	0.4299759
Bis(2-chloroethyl)ether	5	1.311057	10	1.320356	20	1.353769	40	1.299644	50	1.303123	60	1.255375
2,2'-Oxybis-1-chloropropane	5	1.751597	10	1.7475	20	1.739639	40	1.678201	50	1.686332	60	1.618641
2-Chloronaphthalene	5	1.195427	10	1.175982	20	1.194056	40	1.110827	50	1.115289	60	1.070192
2-Chlorophenol	5	1.202517	10	1.275122	20	1.326919	40	1.300237	50	1.289146	60	1.268001
4-Chlorophenyl phenyl ether	5	0.6742086	10	0.6954678	20	0.6890185	40	0.6402671	50	0.6432798	60	0.6252312
Chrysene	5	1.169698	10	1.134234	20	1.187301	40	1.098305	50	1.054946	60	1.023574
Dibenz(a,h)anthracene	5	0.7929059	10	0.9127398	20	0.9778044	40	1.040796	50	1.012641	60	1.013459
Dibenzofuran	5	1.703833	10	1.693413	20	1.704482	40	1.540782	50	1.529322	60	1.472516

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12_10:38 9/11/12_17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.16861	10	1.255953	20	1.283272	40	1.181135	50	1.106647	60	1.06418
1,4-Dichlorobenzene	5	1.531421	10	1.56121	20	1.527423	40	1.451014	50	1.445896	60	1.432695
1,3-Dichlorobenzene	5	1.475221	10	1.490131	20	1.527514	40	1.450766	50	1.468528	60	1.394971
1,2-Dichlorobenzene	5	1.455679	10	1.443407	20	1.456504	40	1.4098	50	1.385694	60	1.338072
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2847428	10	0.3263219	20	0.3328921	40	0.3242484	50	0.3321999	60	0.3215921
Diethylphthalate	5	1.323041	10	1.286795	20	1.368087	40	1.251514	50	1.243205	60	1.211569
2,4-Dimethylphenol	5	0.3723077	10	0.3922829	20	0.4013375	40	0.390409	50	0.388078	60	0.3762622
Dimethyl phthalate	5	1.373422	10	1.353026	20	1.386701	40	1.27275	50	1.233596	60	1.187798
4,6-Dinitro-2-methylphenol	5	7.614394E-02	10	0.1096655	20	0.130206	40	0.1508675	50	0.1529725	60	0.1565992
2,4-Dinitrophenol	5	7.088052E-02	10	0.1093294	20	0.1395075	40	0.1679181	50	0.1812304	60	0.190222
2,4-Dinitrotoluene	5	0.3531728	10	0.3912608	20	0.43451	40	0.4257123	50	0.4261383	60	0.426781
2,6-Dinitrotoluene	5	0.2714151	10	0.2923165	20	0.3163528	40	0.3062322	50	0.3212079	60	0.3121858
Di-n-octylphthalate	5	0.8771769	10	1.020225	20	1.123468	40	1.220057	50	1.208407	60	1.209285
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8301083	10	0.867185	20	0.861467	40	0.8127303	50	0.7719215	60	0.7712792
Bis(2-ethylhexyl)phthalate	5	0.5881362	10	0.6483224	20	0.7324606	40	0.7333481	50	0.7419646	60	0.7344114
Fluoranthene	5	1.23635	10	1.317053	20	1.322223	40	1.210618	50	1.137281	60	1.112443
Fluorene	5	1.465575	10	1.402744	20	1.471988	40	1.327424	50	1.326116	60	1.285392
2-Fluorobiphenyl	5	1.406801	10	1.339106	20	1.373728	40	1.274645	50	1.266637	60	1.228683
2-Fluorophenol	10	1.159714	20	1.147427	40	1.17776	80	1.150615	100	1.131493	120	1.125717
Hexachlorobenzene	5	0.2463841	10	0.2654048	20	0.2691727	40	0.260909	50	0.2592312	60	0.2550784
Hexachlorobutadiene	5	0.2055813	10	0.2041694	20	0.2054767	40	0.2018028	50	0.2080746	60	0.2058022
Hexachlorocyclopentadiene	5	0.2916181	10	0.3162971	20	0.3534771	40	0.3570826	50	0.3593493	60	0.3660123
Hexachloroethane	5	0.6211759	10	0.6184263	20	0.6267446	40	0.6115714	50	0.6020682	60	0.6042834
Indeno(1,2,3-cd)pyrene	5	0.9842869	10	1.100186	20	1.231231	40	1.249436	50	1.252622	60	1.241693
Isophorone	5	0.7053235	10	0.7342949	20	0.7372863	40	0.7150188	50	0.700254	60	0.6863517
1-Methylnaphthalene	5	0.6263254	10	0.6219691	20	0.6167648	40	0.6025289	50	0.5932049	60	0.5754876
2-Methylnaphthalene	5	0.6487649	10	0.6439735	20	0.6616897	40	0.619805	50	0.6168634	60	0.5906787
2-Methylphenol	5	1.13215	10	1.166193	20	1.214549	40	1.183468	50	1.190711	60	1.14973

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
3-Methylphenol/4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
Naphthalene	5	1.131168	10	1.115217	20	1.097102	40	1.018	50	0.9838111	60	0.9336806
4-Nitroaniline	5	0.310375	10	0.2880078	20	0.3319512	40	0.3278091	50	0.3394978	60	0.3319657
3-Nitroaniline	5	0.3061045	10	0.3165566	20	0.3311253	40	0.3337432	50	0.3324556	60	0.333826
2-Nitroaniline	5	0.3122476	10	0.31289	20	0.3414956	40	0.3500366	50	0.3516678	60	0.3465091
Nitrobenzene	5	0.4067955	10	0.405922	20	0.4226794	40	0.4097124	50	0.4155971	60	0.4022004
Nitrobenzene-d5	5	0.3901635	10	0.4008388	20	0.4181021	40	0.4098124	50	0.4068753	60	0.4013554
4-Nitrophenol	5	0.2205213	10	0.2238418	20	0.2704735	40	0.2810258	50	0.2788603	60	0.2746765
2-Nitrophenol	5	0.1572246	10	0.170622	20	0.1900949	40	0.1941729	50	0.1979488	60	0.1972528
N-Nitrosodimethylamine	5	0.6561451	10	0.6489775	20	0.6975004	40	0.6585053	50	0.6588495	60	0.6399517
N-Nitrosodiphenylamine	5	0.7117719	10	0.7279842	20	0.7319408	40	0.6857475	50	0.6689627	60	0.6710496
N-Nitroso-di-n-propylamine	5	1.013651	10	1.014837	20	1.036074	40	0.9774363	50	0.9701911	60	0.9510779
Pentachlorophenol	5	0.1242903	10	0.1472987	20	0.1675192	40	0.1807789	50	0.1772911	60	0.1753101
Phenanthrene	5	1.243048	10	1.256443	20	1.204927	40	1.111894	50	1.046238	60	1.020124
Phenol	5	1.788617	10	1.724966	20	1.754811	40	1.756593	50	1.70602	60	1.681391
Phenol-d6	10	1.56702	20	1.578964	40	1.575631	80	1.495776	100	1.472042	120	1.433011
Pyrene	5	1.269569	10	1.335888	20	1.347438	40	1.215283	50	1.176284	60	1.135994
Pyridine	5	1.450894	10	1.508679	20	1.500758	40	1.402303	50	1.421701	60	1.439583
Terphenyl-d14	5	0.759045	10	0.7914832	20	0.8267835	40	0.7856392	50	0.7550846	60	0.7440656
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3129583	10	0.3205266	20	0.3493419	40	0.3448924	50	0.3561204	60	0.3409846
2,4,6-Tribromophenol	10	9.746889E-02	20	0.1098797	40	0.1147914	80	0.1197327	100	0.11624	120	0.116617
1,2,4-Trichlorobenzene	5	0.3494616	10	0.3476154	20	0.3551252	40	0.3384588	50	0.3410857	60	0.3336289
2,4,6-Trichlorophenol	5	0.3633886	10	0.3835832	20	0.4015645	40	0.3975579	50	0.3943937	60	0.396121
2,4,5-Trichlorophenol	5	0.3479752	10	0.3593403	20	0.4048246	40	0.4025023	50	0.4053154	60	0.4080477

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.007038	100	0.9448967								
Acenaphthylene	80	1.463699	100	1.354083								
Acetophenone					5	1.854627	10	1.791064	20	1.814119	40	1.786505
Aniline	80	1.836509	100	1.778359								
Anthracene	80	0.9395351	100	0.8619493								
Atrazine					5	0.2149468	10	0.2213603	20	0.225859	40	0.2406622
Benzaldehyde					5	1.101007	10	1.076328	20	1.07395	40	0.9905509
Benzidine					5	0.5982221	10	0.6233508	20	0.6721449	40	0.6816705
Benzo(a)anthracene	80	1.039064	100	0.988222								
Benzo(a)pyrene	80	1.057477	100	0.9849124								
Benzo(b)fluoranthene	80	1.000322	100	1.137211								
Benzo(g,h,i)perylene	80	1.010113	100	1.00717								
Benzoic acid	80	0.288002	100	0.3073683								
Benzo(k)fluoranthene	80	1.288017	100	1.039958								
Benzyl alcohol	80	0.8399113	100	0.8291029								
1,1-Biphenyl					5	1.444924	10	1.462762	20	1.465034	40	1.400757
4-Bromophenyl-phenylether	80	0.2322959	100	0.2267755								
Butylbenzylphthalate	80	0.5450172	100	0.5332066								
Caprolactam					5	9.508992E-02	10	0.0970182	20	0.1014958	40	0.1071126
Carbazole	80	0.9117642	100	0.8603283								
4-Chloro-3-methylphenol	80	0.3239361	100	0.3128581								
4-Chloroaniline	80	0.4181819	100	0.4057045								
Bis(2-chloroethoxy)methane	80	0.412871	100	0.401461								
Bis(2-chloroethyl)ether	80	1.234201	100	1.196301								
2,2'-Oxybis-1-chloropropane	80	1.559356	100	1.522435								
2-Chloronaphthalene	80	1.037875	100	0.9697123								
2-Chlorophenol	80	1.250053	100	1.221566								
4-Chlorophenyl phenyl ether	80	0.6050546	100	0.582263								
Chrysene	80	0.9773309	100	0.9316359								
Dibenz(a,h)anthracene	80	1.013161	100	0.9812686								
Dibenzofuran	80	1.350958	100	1.254226								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	0.9816543	100	0.8971291								
1,4-Dichlorobenzene	80	1.376729	100	1.309893								
1,3-Dichlorobenzene	80	1.370178	100	1.332432								
1,2-Dichlorobenzene	80	1.299695	100	1.272024								
3,3'-Dichlorobenzidine					5	0.3543587	10	0.3740634	20	0.3969158	40	0.4162336
2,6-Dichlorophenol					5	0.3029182	10	0.3037802	20	0.3026235	40	0.3162123
2,4-Dichlorophenol	80	0.3128693	100	0.3030876								
Diethylphthalate	80	1.176199	100	1.110356								
2,4-Dimethylphenol	80	0.3615218	100	0.3601468								
Dimethyl phthalate	80	1.147566	100	1.101382								
4,6-Dinitro-2-methylphenol	80	0.1611426	100	0.1632566								
2,4-Dinitrophenol	80	0.2034171	100	0.2067659								
2,4-Dinitrotoluene	80	0.4250739	100	0.4213723								
2,6-Dinitrotoluene	80	0.3060406	100	0.3029055								
Di-n-octylphthalate	80	1.19253	100	1.130569								
1,4-Dioxane					5	0.5681997	10	0.5720167	20	0.5405075	40	0.5215231
1,2-Diphenylhydrazine	80	0.711338	100	0.6708871								
Bis(2-ethylhexyl)phthalate	80	0.7201792	100	0.6965867								
Fluoranthene	80	1.023074	100	0.9552043								
Fluorene	80	1.192825	100	1.10791								
2-Fluorobiphenyl	80	1.168444	100	1.100862								
2-Fluorophenol	160	1.054541	200	1.011147								
Hexachlorobenzene	80	0.2494867	100	0.2407232								
Hexachlorobutadiene	80	0.1926689	100	0.1935308								
Hexachlorocyclopentadiene	80	0.3720966	100	0.360964								
Hexachloroethane	80	0.587194	100	0.5769922								
Indeno(1,2,3-cd)pyrene	80	1.219234	100	1.186028								
Isophorone	80	0.6458218	100	0.6339611								
1-Methylnaphthalene	80	0.5292253	100	0.5167777								
2-Methylnaphthalene	80	0.5632596	100	0.5391497								
2-Methylphenol	80	1.122389	100	1.116647								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.197636	100	1.178114								
4-Methylphenol	80	1.197636	100	1.178114								
3-Methylphenol/4-Methylphenol	80	1.197636	100	1.178114								
Naphthalene	80	0.8568929	100	0.8020783								
4-Nitroaniline	80	0.3344389	100	0.3257398								
3-Nitroaniline	80	0.3329237	100	0.3339491								
2-Nitroaniline	80	0.3445397	100	0.3353103								
Nitrobenzene	80	0.3882844	100	0.3827503								
Nitrobenzene-d5	80	0.3854518	100	0.3790163								
4-Nitrophenol	80	0.2853949	100	0.2769577								
2-Nitrophenol	80	0.1988147	100	0.1958569								
N-Nitrosodimethylamine	80	0.6300438	100	0.6199096								
N-Nitrosodiphenylamine	80	0.6354454	100	0.5938058								
N-Nitroso-di-n-propylamine	80	0.9339268	100	0.919134								
Pentachlorophenol	80	0.1795239	100	0.1780552								
Phenanthrene	80	0.9246607	100	0.8510275								
Phenol	80	1.621348	100	1.575871								
Phenol-d6	160	1.363933	200	1.326291								
Pyrene	80	1.029161	100	0.9464214								
Pyridine	80	1.417841	100	1.409563								
Terphenyl-d14	80	0.7003809	100	0.6796219								
1,2,4,5-Tetrachlorobenzene					5	0.3642537	10	0.3739162	20	0.3587545	40	0.3586331
2,3,4,6-Tetrachlorophenol	80	0.3514703	100	0.348575								
2,4,6-Tribromophenol	160	0.114871	200	0.1137257								
1,2,4-Trichlorobenzene	80	0.3197429	100	0.3182462								
2,4,6-Trichlorophenol	80	0.3928045	100	0.3853417								
2,4,5-Trichlorophenol	80	0.3978263	100	0.3895499								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.76145	60	1.801983	80	1.673292	100	1.611182				
Aniline												
Anthracene												
Atrazine	50	0.2359451	60	0.2357328	80	0.2298759	100	0.2247727				
Benzaldehyde	50	0.9748365	60	0.9989734	80	0.8898613	100	0.8739512				
Benzidine	50	0.6776385	60	0.680287	80	0.6439769	100	0.6296377				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.364835	60	1.327666	80	1.236441	100	1.162958				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1109058	60	0.1124372	80	0.1099913	100	0.1099271				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.416014	60	0.4278231	80	0.412885	100	0.3940041				
2,6-Dichlorophenol	50	0.3200868	60	0.3120857	80	0.3076012	100	0.2959819				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5110823	60	0.5407586	80	0.5060359	100	0.5102403				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.354329	60	0.3540016	80	0.3422855	100	0.3257612				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

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

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	58.60	1.10566	1.295903	0.9	17.2	20
Acenaphthylene	A	50.00	54.94	1.65984	1.823847	0.9	9.9	20
Anthracene	A	50.00	53.20	1.081887	1.151058	0.7	6.4	20
Benzo(a)anthracene	A	50.00	55.59	1.096178	1.218701	0.8	11.2	20
Benzo(a)pyrene	A	50.00	53.88	1.020199	1.099446	0.7	7.8	20
Benzo(b)fluoranthene	A	50.00	53.05	1.062636	1.127461	0.7	6.1	20
Benzo(g,h,i)perylene	A	50.00	54.39	0.9945587	1.081915	0.5	8.8	20
Benzoic acid	L	50.00	48.69	0.2585828	0.2811545	0.01	-2.6	20
Benzo(k)fluoranthene	A	50.00	53.54	1.300594	1.392682	0.7	7.1	20
4-Bromophenyl-phenylether	A	50.00	53.33	0.2362641	0.2519767	0.1	6.7	20
Butylbenzylphthalate	A	50.00	55.26	0.5337897	0.5899795	0.01	10.5	20
Carbazole	A	50.00	53.21	1.029924	1.095962	0.01	6.4	20
4-Chloro-3-methylphenol	A	50.00	54.72	0.3241539	0.3547434	0.2	9.4	20
4-Chloroaniline	A	50.00	52.81	0.4387603	0.4634271	0.01	5.6	20
Bis(2-chloroethoxy)methane	A	50.00	53.38	0.4361706	0.4656965	0.3	6.8	20
Bis(2-chloroethyl)ether	A	50.00	56.03	1.284228	1.439207	0.7	12.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	55.74	1.662963	1.853836	0.01	11.5	20
2-Chloronaphthalene	A	50.00	51.24	1.10867	1.136069	0.8	2.5	20
2-Chlorophenol	A	50.00	58.06	1.266695	1.470975	0.8	16.1	20
4-Chlorophenyl phenyl ether	A	50.00	51.29	0.6443488	0.6609697	0.4	2.6	20
Chrysene	A	50.00	56.09	1.072128	1.202645	0.7	12.2	20
Dibenz(a,h)anthracene	A	50.00	55.01	0.968097	1.065122	0.4	10.0	20
Dibenzofuran	A	50.00	53.47	1.531191	1.637537	0.8	6.9	20
Di-n-butylphthalate	A	50.00	51.42	1.117323	1.148948	0.01	2.8	20
2,4-Dichlorophenol	A	50.00	54.14	0.3172443	0.3435181	0.2	8.3	20
Diethylphthalate	A	50.00	50.34	1.246346	1.254886	0.01	0.7	20
2,4-Dimethylphenol	A	50.00	56.41	0.3802932	0.4290272	0.2	12.8	20
Dimethyl phthalate	A	50.00	49.52	1.25703	1.244959	0.01	-1.0	20
4,6-Dinitro-2-methylphenol	L	50.00	53.68	0.1376067	0.1681106	0.01	7.4	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	49.63	0.1586589	0.1883481	0.05	-0.7	20
2,4-Dinitrotoluene	A	50.00	52.00	0.4130027	0.4295454	0.2	4.0	20
2,6-Dinitrotoluene	A	50.00	53.10	0.3035821	0.3224102	0.2	6.2	20
Di-n-octylphthalate	A	50.00	55.98	1.122715	1.25702	0.01	12.0	20
1,2-Diphenylhydrazine	A	50.00	54.43	0.7871146	0.856912	0.01	8.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.88	0.6994262	0.7957128	0.01	13.8	20
Fluoranthene	A	50.00	53.36	1.164281	1.242525	0.6	6.7	20
Fluorene	A	50.00	51.97	1.322497	1.3745	0.9	3.9	20
Hexachlorobenzene	A	50.00	53.88	0.2557988	0.2756724	0.1	7.8	20
Hexachlorobutadiene	A	50.00	59.84	0.2021383	0.2419049	0.01	19.7	20
Hexachlorocyclopentadiene	A	50.00	55.42	0.3471121	0.3847598	0.05	10.8	20
Hexachloroethane	A	50.00	54.49	0.606057	0.6604722	0.3	9.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.73	1.18309	1.295127	0.5	9.5	20
Isophorone	A	50.00	52.71	0.694789	0.7324747	0.4	5.4	20
1-Methylnaphthalene	A	50.00	53.43	0.5852855	0.6253864	0.01	6.9	20
2-Methylnaphthalene	A	50.00	52.57	0.6105231	0.6419021	0.4	5.1	20
2-Methylphenol	A	50.00	58.16	1.15948	1.348604	0.7	16.3	20
3-Methylphenol/4-Methylphenol	A	50.00	58.18	1.219104	1.418582		16.4	20
Naphthalene	A	50.00	57.00	0.9922437	1.131112	0.7	14.0	20
4-Nitroaniline	A	50.00	53.79	0.3237232	0.348242	0.01	7.6	20
3-Nitroaniline	A	50.00	53.70	0.3275855	0.3518224	0.01	7.4	20
2-Nitroaniline	A	50.00	58.40	0.3368371	0.3934389	0.01	16.8	20
Nitrobenzene	A	50.00	52.69	0.4042427	0.4260277	0.2	5.4	20
4-Nitrophenol	A	50.00	54.75	0.263969	0.2890525	0.05	9.5	20
2-Nitrophenol	A	50.00	54.00	0.1877485	0.2027527	0.1	8.0	20
N-Nitrosodiphenylamine	A	50.00	53.61	0.6783385	0.7272844	0.01	7.2	20
N-Nitroso-di-n-propylamine	A	50.00	55.58	0.977041	1.086017	0.5	11.2	20
Phenanthrene	A	50.00	53.75	1.082295	1.163421	0.7	7.5	20
Phenol	A	50.00	56.31	1.701202	1.915796	0.8	12.6	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pyrene	A	50.00	54.56	1.182005	1.289905	0.6	9.1	20
2,4,6-Trichlorophenol	A	50.00	53.74	0.3893444	0.4184625	0.2	7.5	20
2,4,5-Trichlorophenol	A	50.00	58.16	0.3894227	0.4529662	0.2	16.3	20
2-Fluorobiphenyl	A	50.00	53.53	1.269863	1.359507	0.01	7.1	20
2-Fluorophenol	A	100.0	122.0	1.119802	1.365786	0.01	22.0	20 *
Nitrobenzene-d5	A	50.00	55.18	0.3989519	0.4402934	0.01	10.4	20
Phenol-d6	A	100.0	113.3	1.476584	1.673269	0.01	13.3	20
Terphenyl-d14	A	50.00	59.66	0.755263	0.9012434	0.01	19.3	20
2,4,6-Tribromophenol	A	100.0	109.1	0.1129158	0.1231592	0.01	9.1	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV2	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	52.13	1.761778	1.836985	0.01	4.3	20
Atrazine	A	50.00	47.98	0.2286444	0.2194247	0.01	-4.0	20
Benzaldehyde	A	50.00	52.76	0.9974323	1.052489	0.01	5.5	20
Benzidine	A	50.00	56.11	0.650866	0.7304139	0.01	12.2	20
1,1-Biphenyl	A	50.00	51.62	1.358172	1.402158	0.01	3.2	20
Caprolactam	A	50.00	55.44	0.1054972	0.1169682	0.01	10.9	20
3,3'-Dichlorobenzidine	A	50.00	54.50	0.3990372	0.4349478	0.01	9.0	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/12/12
Lab Sample ID:	2I25803-ICV3	Injection Time:	15:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	46.01	0.1662584	0.1529758	0.05	-8.0	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.24	1.10566	1.066693	0.9	-3.5	20
Acenaphthylene	A	50.00	49.90	1.65984	1.656671	0.9	-0.2	20
Anthracene	A	50.00	52.15	1.081887	1.128328	0.7	4.3	20
Benzo(a)anthracene	A	50.00	53.91	1.096178	1.181982	0.8	7.8	20
Benzo(a)pyrene	A	50.00	55.30	1.020199	1.128371	0.7	10.6	20
Benzo(b)fluoranthene	A	50.00	60.46	1.062636	1.285024	0.7	20.9	20 *
Benzo(g,h,i)perylene	A	50.00	55.66	0.9945587	1.107155	0.5	11.3	20
Benzoic acid	L	50.00	54.98	0.2585828	0.3207258	0.01	10.0	20
Benzo(k)fluoranthene	A	50.00	44.83	1.300594	1.166081	0.7	-10.3	20
4-Bromophenyl-phenylether	A	50.00	52.97	0.2362641	0.2503114	0.1	5.9	20
Butylbenzylphthalate	A	50.00	56.48	0.5337897	0.6029536	0.01	13.0	20
Carbazole	A	50.00	54.32	1.029924	1.119007	0.01	8.6	20
4-Chloro-3-methylphenol	A	50.00	53.35	0.3241539	0.3458679	0.2	6.7	20
4-Chloroaniline	A	50.00	54.71	0.4387603	0.480112	0.01	9.4	20
Bis(2-chloroethoxy)methane	A	50.00	51.70	0.4361706	0.4510304	0.3	3.4	20
Bis(2-chloroethyl)ether	A	50.00	55.26	1.284228	1.419344	0.7	10.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.30	1.662963	1.772704	0.01	6.6	20
2-Chloronaphthalene	A	50.00	49.91	1.10867	1.106589	0.8	-0.2	20
2-Chlorophenol	A	50.00	57.86	1.266695	1.465838	0.8	15.7	20
4-Chlorophenyl phenyl ether	A	50.00	48.59	0.6443488	0.6261875	0.4	-2.8	20
Chrysene	A	50.00	49.72	1.072128	1.066081	0.7	-0.6	20
Dibenz(a,h)anthracene	A	50.00	56.34	0.968097	1.09089	0.4	12.7	20
Dibenzofuran	A	50.00	49.77	1.531191	1.524107	0.8	-0.5	20
Di-n-butylphthalate	A	50.00	53.40	1.117323	1.193287	0.01	6.8	20
2,4-Dichlorophenol	A	50.00	54.24	0.3172443	0.344182	0.2	8.5	20
Diethylphthalate	A	50.00	47.26	1.246346	1.178099	0.01	-5.5	20
2,4-Dimethylphenol	A	50.00	51.21	0.3802932	0.3895176	0.2	2.4	20
Dimethyl phthalate	A	50.00	49.09	1.25703	1.234206	0.01	-1.8	20
4,6-Dinitro-2-methylphenol	L	50.00	60.33	0.1376067	0.1905519	0.01	20.7	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	59.25	0.1586589	0.230124	0.05	18.5	20
2,4-Dinitrotoluene	A	50.00	54.15	0.4130027	0.4473006	0.2	8.3	20
2,6-Dinitrotoluene	A	50.00	54.54	0.3035821	0.3311539	0.2	9.1	20
Di-n-octylphthalate	A	50.00	59.15	1.122715	1.328206	0.01	18.3	20
1,2-Diphenylhydrazine	A	50.00	49.49	0.7871146	0.7791231	0.01	-1.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.89	0.6994262	0.7958351	0.01	13.8	20
Fluoranthene	A	50.00	53.00	1.164281	1.234176	0.6	6.0	20
Fluorene	A	50.00	48.46	1.322497	1.281736	0.9	-3.1	20
Hexachlorobenzene	A	50.00	52.86	0.2557988	0.2704272	0.1	5.7	20
Hexachlorobutadiene	A	50.00	48.94	0.2021383	0.1978641	0.01	-2.1	20
Hexachlorocyclopentadiene	A	50.00	49.31	0.3471121	0.3423018	0.05	-1.4	20
Hexachloroethane	A	50.00	50.55	0.606057	0.6127173	0.3	1.1	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.40	1.18309	1.287177	0.5	8.8	20
Isophorone	A	50.00	50.71	0.694789	0.7046467	0.4	1.4	20
1-Methylnaphthalene	A	50.00	51.18	0.5852855	0.5991118	0.01	2.4	20
2-Methylnaphthalene	A	50.00	51.44	0.6105231	0.6280455	0.4	2.9	20
2-Methylphenol	A	50.00	57.19	1.15948	1.326269	0.7	14.4	20
3-Methylphenol/4-Methylphenol	A	50.00	57.95	1.219104	1.413032		15.9	20
Naphthalene	A	50.00	50.32	0.9922437	0.998702	0.7	0.7	20
4-Nitroaniline	A	50.00	54.32	0.3237232	0.3517186	0.01	8.6	20
3-Nitroaniline	A	50.00	58.47	0.3275855	0.3830724	0.01	16.9	20
2-Nitroaniline	A	50.00	54.09	0.3368371	0.3644168	0.01	8.2	20
Nitrobenzene	A	50.00	51.13	0.4042427	0.4133875	0.2	2.3	20
4-Nitrophenol	A	50.00	51.71	0.263969	0.2730073	0.05	3.4	20
2-Nitrophenol	A	50.00	61.92	0.1877485	0.232496	0.1	23.8	20 *
N-Nitrosodiphenylamine	A	50.00	53.06	0.6783385	0.7198479	0.01	6.1	20
N-Nitroso-di-n-propylamine	A	50.00	51.87	0.977041	1.013615	0.5	3.7	20
Pentachlorophenol	A	50.00	55.71	0.1662584	0.1852505	0.05	11.4	20
Phenanthrene	A	50.00	50.71	1.082295	1.097686	0.7	1.4	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	55.13	1.701202	1.875886	0.8	10.3	20
Pyrene	A	50.00	52.59	1.182005	1.243249	0.6	5.2	20
2,4,6-Trichlorophenol	A	50.00	54.59	0.3893444	0.4251115	0.2	9.2	20
2,4,5-Trichlorophenol	A	50.00	53.04	0.3894227	0.4131431	0.2	6.1	20
2-Fluorobiphenyl	A	50.00	50.96	1.269863	1.294119	0.01	1.9	20
2-Fluorophenol	A	100.0	113.5	1.119802	1.270881	0.01	13.5	20
Nitrobenzene-d5	A	50.00	51.79	0.3989519	0.4132396	0.01	3.6	20
Phenol-d6	A	100.0	108.9	1.476584	1.607863	0.01	8.9	20
Terphenyl-d14	A	50.00	61.78	0.755263	0.9332744	0.01	23.6	20 *
2,4,6-Tribromophenol	A	100.0	110.9	0.1129158	0.1251836	0.01	10.9	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV2	Injection Time:	12:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	49.97	1.761778	1.760629	0.01	-0.07	20
Atrazine	A	50.00	54.29	0.2286444	0.2482533	0.01	8.6	20
Benzaldehyde	A	50.00	58.14	0.9974323	1.159931	0.01	16.3	20
Benzidine	A	50.00	63.98	0.650866	0.832891	0.01	28.0	20 *
1,1-Biphenyl	A	50.00	48.90	1.358172	1.328454	0.01	-2.2	20
Caprolactam	A	50.00	63.06	0.1054972	0.1330455	0.01	26.1	20 *
3,3'-Dichlorobenzidine	A	50.00	60.70	0.3990372	0.4844644	0.01	21.4	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32603	Injection Date:	11/20/12
Lab Sample ID:	2K32603-CCV1	Injection Time:	15:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	46.60	1.10566	1.030425	0.9	-6.8	20
Acenaphthylene	A	50.00	47.79	1.65984	1.586439	0.9	-4.4	20
Anthracene	A	50.00	51.37	1.081887	1.111608	0.7	2.7	20
Benzo(a)anthracene	A	50.00	52.04	1.096178	1.140808	0.8	4.1	20
Benzo(a)pyrene	A	50.00	51.92	1.020199	1.059324	0.7	3.8	20
Benzo(b)fluoranthene	A	50.00	57.43	1.062636	1.220586	0.7	14.9	20
Benzo(g,h,i)perylene	A	50.00	52.74	0.9945587	1.049015	0.5	5.5	20
Benzoic acid	L	50.00	49.80	0.2585828	0.2881342	0.01	-0.4	20
Benzo(k)fluoranthene	A	50.00	45.23	1.300594	1.176509	0.7	-9.5	20
4-Bromophenyl-phenylether	A	50.00	50.61	0.2362641	0.2391442	0.1	1.2	20
Butylbenzylphthalate	A	50.00	53.56	0.5337897	0.571744	0.01	7.1	20
Carbazole	A	50.00	52.81	1.029924	1.087881	0.01	5.6	20
4-Chloro-3-methylphenol	A	50.00	52.14	0.3241539	0.3380465	0.2	4.3	20
4-Chloroaniline	A	50.00	52.79	0.4387603	0.4632276	0.01	5.6	20
Bis(2-chloroethoxy)methane	A	50.00	50.34	0.4361706	0.4391291	0.3	0.7	20
Bis(2-chloroethyl)ether	A	50.00	52.60	1.284228	1.350931	0.7	5.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.26	1.662963	1.704869	0.01	2.5	20
2-Chloronaphthalene	A	50.00	48.14	1.10867	1.067557	0.8	-3.7	20
2-Chlorophenol	A	50.00	54.11	1.266695	1.370926	0.8	8.2	20
4-Chlorophenyl phenyl ether	A	50.00	46.46	0.6443488	0.598669	0.4	-7.1	20
Chrysene	A	50.00	47.11	1.072128	1.010233	0.7	-5.8	20
Dibenz(a,h)anthracene	A	50.00	54.13	0.968097	1.048004	0.4	8.3	20
Dibenzofuran	A	50.00	47.85	1.531191	1.465375	0.8	-4.3	20
Di-n-butylphthalate	A	50.00	52.60	1.117323	1.175501	0.01	5.2	20
2,4-Dichlorophenol	A	50.00	52.80	0.3172443	0.3350217	0.2	5.6	20
Diethylphthalate	A	50.00	45.35	1.246346	1.130401	0.01	-9.3	20
2,4-Dimethylphenol	A	50.00	49.98	0.3802932	0.3801233	0.2	-0.04	20
Dimethyl phthalate	A	50.00	46.60	1.25703	1.171598	0.01	-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	56.82	0.1376067	0.1787288	0.01	13.6	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32603	Injection Date:	11/20/12
Lab Sample ID:	2K32603-CCV1	Injection Time:	15:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	56.32	0.1586589	0.2173985	0.05	12.6	20
2,4-Dinitrotoluene	A	50.00	52.11	0.4130027	0.4304103	0.2	4.2	20
2,6-Dinitrotoluene	A	50.00	52.22	0.3035821	0.3170841	0.2	4.4	20
Di-n-octylphthalate	A	50.00	56.38	1.122715	1.265907	0.01	12.8	20
1,2-Diphenylhydrazine	A	50.00	48.71	0.7871146	0.7668469	0.01	-2.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.52	0.6994262	0.7626274	0.01	9.0	20
Fluoranthene	A	50.00	52.06	1.164281	1.21234	0.6	4.1	20
Fluorene	A	50.00	46.73	1.322497	1.236109	0.9	-6.5	20
Hexachlorobenzene	A	50.00	50.45	0.2557988	0.2580812	0.1	0.9	20
Hexachlorobutadiene	A	50.00	46.35	0.2021383	0.1873725	0.01	-7.3	20
Hexachlorocyclopentadiene	A	50.00	47.39	0.3471121	0.3290151	0.05	-5.2	20
Hexachloroethane	A	50.00	48.05	0.606057	0.5824361	0.3	-3.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.97	1.18309	1.205959	0.5	1.9	20
Isophorone	A	50.00	49.89	0.694789	0.6932946	0.4	-0.2	20
1-Methylnaphthalene	A	50.00	49.56	0.5852855	0.5800951	0.01	-0.9	20
2-Methylnaphthalene	A	50.00	49.65	0.6105231	0.6062647	0.4	-0.7	20
2-Methylphenol	A	50.00	55.17	1.15948	1.279372	0.7	10.3	20
3-Methylphenol/4-Methylphenol	A	50.00	55.03	1.219104	1.341789		10.1	20
Naphthalene	A	50.00	49.11	0.9922437	0.9745462	0.7	-1.8	20
4-Nitroaniline	A	50.00	52.63	0.3237232	0.3407663	0.01	5.3	20
3-Nitroaniline	A	50.00	55.91	0.3275855	0.3663234	0.01	11.8	20
2-Nitroaniline	A	50.00	52.44	0.3368371	0.3532429	0.01	4.9	20
Nitrobenzene	A	50.00	49.28	0.4042427	0.398385	0.2	-1.4	20
4-Nitrophenol	A	50.00	50.06	0.263969	0.2642667	0.05	0.1	20
2-Nitrophenol	A	50.00	60.18	0.1877485	0.2259897	0.1	20.4	20 *
N-Nitrosodiphenylamine	A	50.00	52.27	0.6783385	0.7091958	0.01	4.5	20
N-Nitroso-di-n-propylamine	A	50.00	49.19	0.977041	0.9612662	0.5	-1.6	20
Pentachlorophenol	A	50.00	53.23	0.1662584	0.1769862	0.05	6.5	20
Phenanthrene	A	50.00	50.01	1.082295	1.082519	0.7	0.02	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32603	Injection Date:	11/20/12
Lab Sample ID:	2K32603-CCV1	Injection Time:	15:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	52.71	1.701202	1.793447	0.8	5.4	20
Pyrene	A	50.00	50.66	1.182005	1.197697	0.6	1.3	20
2,4,6-Trichlorophenol	A	50.00	50.81	0.3893444	0.395672	0.2	1.6	20
2,4,5-Trichlorophenol	A	50.00	49.47	0.3894227	0.3853321	0.2	-1.1	20
2-Fluorobiphenyl	A	50.00	48.84	1.269863	1.24034	0.01	-2.3	20
2-Fluorophenol	A	100.0	108.2	1.119802	1.211458	0.01	8.2	20
Nitrobenzene-d5	A	50.00	52.11	0.3989519	0.4157922	0.01	4.2	20
Phenol-d6	A	100.0	105.3	1.476584	1.554713	0.01	5.3	20
Terphenyl-d14	A	50.00	58.57	0.755263	0.8847451	0.01	17.1	20
2,4,6-Tribromophenol	A	100.0	109.0	0.1129158	0.123039	0.01	9.0	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32603	Injection Date:	11/20/12
Lab Sample ID:	2K32603-CCV2	Injection Time:	15:55

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	50.19	1.761778	1.768541	0.01	0.4	20
Atrazine	A	50.00	52.68	0.2286444	0.2408787	0.01	5.4	20
Benzaldehyde	A	50.00	59.24	0.9974323	1.181672	0.01	18.5	20
Benzidine	A	50.00	63.46	0.650866	0.8260656	0.01	26.9	20 *
1,1-Biphenyl	A	50.00	47.64	1.358172	1.294061	0.01	-4.7	20
Caprolactam	A	50.00	61.44	0.1054972	0.1296419	0.01	22.9	20 *
3,3'-Dichlorobenzidine	A	50.00	60.85	0.3990372	0.48565	0.01	21.7	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K33504	Injection Date:	11/29/12
Lab Sample ID:	2K33504-CCV1	Injection Time:	15:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	46.30	1.10566	1.023863	0.9	-7.4	20
Acenaphthylene	A	50.00	48.56	1.65984	1.611911	0.9	-2.9	20
Anthracene	A	50.00	51.59	1.081887	1.116325	0.7	3.2	20
Benzo(a)anthracene	A	50.00	53.16	1.096178	1.165462	0.8	6.3	20
Benzo(a)pyrene	A	50.00	51.28	1.020199	1.046227	0.7	2.6	20
Benzo(b)fluoranthene	A	50.00	57.50	1.062636	1.221993	0.7	15.0	20
Benzo(g,h,i)perylene	A	50.00	53.11	0.9945587	1.056391	0.5	6.2	20
Benzoic acid	L	50.00	47.06	0.2585828	0.2709394	0.01	-5.9	20
Benzo(k)fluoranthene	A	50.00	42.41	1.300594	1.103103	0.7	-15.2	20
4-Bromophenyl-phenylether	A	50.00	51.09	0.2362641	0.2414026	0.1	2.2	20
Butylbenzylphthalate	A	50.00	54.93	0.5337897	0.5864176	0.01	9.9	20
Carbazole	A	50.00	52.96	1.029924	1.0909	0.01	5.9	20
4-Chloro-3-methylphenol	A	50.00	51.52	0.3241539	0.3339899	0.2	3.0	20
4-Chloroaniline	A	50.00	52.57	0.4387603	0.4612873	0.01	5.1	20
Bis(2-chloroethoxy)methane	A	50.00	49.86	0.4361706	0.4349587	0.3	-0.3	20
Bis(2-chloroethyl)ether	A	50.00	54.18	1.284228	1.391502	0.7	8.4	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.46	1.662963	1.778081	0.01	6.9	20
2-Chloronaphthalene	A	50.00	48.37	1.10867	1.072508	0.8	-3.3	20
2-Chlorophenol	A	50.00	55.50	1.266695	1.406032	0.8	11.0	20
4-Chlorophenyl phenyl ether	A	50.00	47.08	0.6443488	0.6067699	0.4	-5.8	20
Chrysene	A	50.00	48.41	1.072128	1.038043	0.7	-3.2	20
Dibenz(a,h)anthracene	A	50.00	53.38	0.968097	1.033515	0.4	6.8	20
Dibenzofuran	A	50.00	48.14	1.531191	1.47424	0.8	-3.7	20
Di-n-butylphthalate	A	50.00	52.44	1.117323	1.171975	0.01	4.9	20
2,4-Dichlorophenol	A	50.00	53.13	0.3172443	0.3371023	0.2	6.3	20
Diethylphthalate	A	50.00	45.82	1.246346	1.142102	0.01	-8.4	20
2,4-Dimethylphenol	A	50.00	49.89	0.3802932	0.3794708	0.2	-0.2	20
Dimethyl phthalate	A	50.00	47.32	1.25703	1.189778	0.01	-5.4	20
4,6-Dinitro-2-methylphenol	L	50.00	57.13	0.1376067	0.1797596	0.01	14.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K33504	Injection Date:	11/29/12
Lab Sample ID:	2K33504-CCV1	Injection Time:	15:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	57.54	0.1586589	0.2226942	0.05	15.1	20
2,4-Dinitrotoluene	A	50.00	51.54	0.4130027	0.4257581	0.2	3.1	20
2,6-Dinitrotoluene	A	50.00	52.94	0.3035821	0.3214226	0.2	5.9	20
Di-n-octylphthalate	A	50.00	55.87	1.122715	1.254608	0.01	11.7	20
1,2-Diphenylhydrazine	A	50.00	48.54	0.7871146	0.764092	0.01	-2.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.81	0.6994262	0.7946703	0.01	13.6	20
Fluoranthene	A	50.00	51.03	1.164281	1.188222	0.6	2.1	20
Fluorene	A	50.00	46.38	1.322497	1.226798	0.9	-7.2	20
Hexachlorobenzene	A	50.00	52.14	0.2557988	0.2667451	0.1	4.3	20
Hexachlorobutadiene	A	50.00	46.63	0.2021383	0.1885312	0.01	-6.7	20
Hexachlorocyclopentadiene	A	50.00	50.79	0.3471121	0.3525803	0.05	1.6	20
Hexachloroethane	A	50.00	50.32	0.606057	0.6099668	0.3	0.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.95	1.18309	1.205651	0.5	1.9	20
Isophorone	A	50.00	49.66	0.694789	0.6900883	0.4	-0.7	20
1-Methylnaphthalene	A	50.00	48.59	0.5852855	0.5687781	0.01	-2.8	20
2-Methylnaphthalene	A	50.00	49.21	0.6105231	0.6008404	0.4	-1.6	20
2-Methylphenol	A	50.00	56.53	1.15948	1.310874	0.7	13.1	20
3-Methylphenol/4-Methylphenol	A	50.00	56.73	1.219104	1.383281		13.5	20
Naphthalene	A	50.00	48.89	0.9922437	0.9702894	0.7	-2.2	20
4-Nitroaniline	A	50.00	51.99	0.3237232	0.3366106	0.01	4.0	20
3-Nitroaniline	A	50.00	54.90	0.3275855	0.3597015	0.01	9.8	20
2-Nitroaniline	A	50.00	52.84	0.3368371	0.3559808	0.01	5.7	20
Nitrobenzene	A	50.00	49.67	0.4042427	0.4015719	0.2	-0.7	20
4-Nitrophenol	A	50.00	50.53	0.263969	0.2667636	0.05	1.1	20
2-Nitrophenol	A	50.00	60.06	0.1877485	0.2255332	0.1	20.1	20 *
N-Nitrosodiphenylamine	A	50.00	52.06	0.6783385	0.7062911	0.01	4.1	20
N-Nitroso-di-n-propylamine	A	50.00	49.98	0.977041	0.9767291	0.5	-0.03	20
Pentachlorophenol	A	50.00	51.81	0.1662584	0.1722887	0.05	3.6	20
Phenanthrene	A	50.00	48.93	1.082295	1.059115	0.7	-2.1	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K33504	Injection Date:	11/29/12
Lab Sample ID:	2K33504-CCV1	Injection Time:	15:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	53.82	1.701202	1.83113	0.8	7.6	20
Pyrene	A	50.00	52.40	1.182005	1.238863	0.6	4.8	20
2,4,6-Trichlorophenol	A	50.00	52.16	0.3893444	0.4061308	0.2	4.3	20
2,4,5-Trichlorophenol	A	50.00	50.76	0.3894227	0.3953273	0.2	1.5	20
2-Fluorobiphenyl	A	50.00	49.85	1.269863	1.266071	0.01	-0.3	20
2-Fluorophenol	A	100.0	112.2	1.119802	1.256477	0.01	12.2	20
Nitrobenzene-d5	A	50.00	51.12	0.3989519	0.4078789	0.01	2.2	20
Phenol-d6	A	100.0	107.4	1.476584	1.585402	0.01	7.4	20
Terphenyl-d14	A	50.00	60.31	0.755263	0.9110469	0.01	20.6	20 *
2,4,6-Tribromophenol	A	100.0	109.7	0.1129158	0.1238326	0.01	9.7	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K33504	Injection Date:	11/29/12
Lab Sample ID:	2K33504-CCV2	Injection Time:	15:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	48.70	1.761778	1.715993	0.01	-2.6	20
Atrazine	A	50.00	51.75	0.2286444	0.2366573	0.01	3.5	20
Benzaldehyde	A	50.00	56.34	0.9974323	1.124016	0.01	12.7	20
Benzidine	A	50.00	66.89	0.650866	0.8706915	0.01	33.8	20 *
1,1-Biphenyl	A	50.00	47.46	1.358172	1.289247	0.01	-5.1	20
Caprolactam	A	50.00	60.83	0.1054972	0.128345	0.01	21.7	20 *
3,3'-Dichlorobenzidine	A	50.00	61.37	0.3990372	0.4897985	0.01	22.7	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2L33805	Injection Date:	11/30/12
Lab Sample ID:	2L33805-CCV1	Injection Time:	14:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	47.66	1.10566	1.053951	0.9	-4.7	20
Acenaphthylene	A	50.00	48.31	1.65984	1.603799	0.9	-3.4	20
Anthracene	A	50.00	51.86	1.081887	1.122247	0.7	3.7	20
Benzo(a)anthracene	A	50.00	52.90	1.096178	1.159774	0.8	5.8	20
Benzo(a)pyrene	A	50.00	52.17	1.020199	1.064577	0.7	4.3	20
Benzo(b)fluoranthene	A	50.00	57.89	1.062636	1.230237	0.7	15.8	20
Benzo(g,h,i)perylene	A	50.00	53.38	0.9945587	1.061848	0.5	6.8	20
Benzoic acid	L	50.00	48.07	0.2585828	0.2772853	0.01	-3.9	20
Benzo(k)fluoranthene	A	50.00	43.03	1.300594	1.119419	0.7	-13.9	20
4-Bromophenyl-phenylether	A	50.00	50.59	0.2362641	0.2390565	0.1	1.2	20
Butylbenzylphthalate	A	50.00	54.70	0.5337897	0.5839805	0.01	9.4	20
Carbazole	A	50.00	52.85	1.029924	1.088643	0.01	5.7	20
4-Chloro-3-methylphenol	A	50.00	53.33	0.3241539	0.3457667	0.2	6.7	20
4-Chloroaniline	A	50.00	53.97	0.4387603	0.4736077	0.01	7.9	20
Bis(2-chloroethoxy)methane	A	50.00	50.44	0.4361706	0.440037	0.3	0.9	20
Bis(2-chloroethyl)ether	A	50.00	53.75	1.284228	1.380573	0.7	7.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.92	1.662963	1.760081	0.01	5.8	20
2-Chloronaphthalene	A	50.00	48.54	1.10867	1.076344	0.8	-2.9	20
2-Chlorophenol	A	50.00	54.64	1.266695	1.384252	0.8	9.3	20
4-Chlorophenyl phenyl ether	A	50.00	47.48	0.6443488	0.6119059	0.4	-5.0	20
Chrysene	A	50.00	49.01	1.072128	1.050829	0.7	-2.0	20
Dibenz(a,h)anthracene	A	50.00	54.11	0.968097	1.047664	0.4	8.2	20
Dibenzofuran	A	50.00	48.66	1.531191	1.490208	0.8	-2.7	20
Di-n-butylphthalate	A	50.00	52.70	1.117323	1.177626	0.01	5.4	20
2,4-Dichlorophenol	A	50.00	52.37	0.3172443	0.3323002	0.2	4.7	20
Diethylphthalate	A	50.00	46.78	1.246346	1.166165	0.01	-6.4	20
2,4-Dimethylphenol	A	50.00	50.18	0.3802932	0.3816743	0.2	0.4	20
Dimethyl phthalate	A	50.00	47.36	1.25703	1.190617	0.01	-5.3	20
4,6-Dinitro-2-methylphenol	L	50.00	59.02	0.1376067	0.186141	0.01	18.0	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2L33805	Injection Date:	11/30/12
Lab Sample ID:	2L33805-CCV1	Injection Time:	14:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	L	50.00	62.90	0.1586589	0.245943	0.05	25.8	20	*
2,4-Dinitrotoluene	A	50.00	52.28	0.4130027	0.4318681	0.2	4.6	20	
2,6-Dinitrotoluene	A	50.00	53.44	0.3035821	0.3244622	0.2	6.9	20	
Di-n-octylphthalate	A	50.00	54.67	1.122715	1.227592	0.01	9.3	20	
1,2-Diphenylhydrazine	A	50.00	49.98	0.7871146	0.7868226	0.01	-0.04	20	
Bis(2-ethylhexyl)phthalate	A	50.00	56.14	0.6994262	0.7852718	0.01	12.3	20	
Fluoranthene	A	50.00	51.68	1.164281	1.203492	0.6	3.4	20	
Fluorene	A	50.00	47.87	1.322497	1.26624	0.9	-4.3	20	
Hexachlorobenzene	A	50.00	49.74	0.2557988	0.2544882	0.1	-0.5	20	
Hexachlorobutadiene	A	50.00	47.39	0.2021383	0.1915966	0.01	-5.2	20	
Hexachlorocyclopentadiene	A	50.00	51.07	0.3471121	0.3545671	0.05	2.1	20	
Hexachloroethane	A	50.00	49.10	0.606057	0.5951787	0.3	-1.8	20	
Indeno(1,2,3-cd)pyrene	A	50.00	52.77	1.18309	1.248712	0.5	5.5	20	
Isophorone	A	50.00	50.63	0.694789	0.703609	0.4	1.3	20	
1-Methylnaphthalene	A	50.00	49.47	0.5852855	0.5791357	0.01	-1.1	20	
2-Methylnaphthalene	A	50.00	49.68	0.6105231	0.6066863	0.4	-0.6	20	
2-Methylphenol	A	50.00	56.59	1.15948	1.312401	0.7	13.2	20	
3-Methylphenol/4-Methylphenol	A	50.00	55.52	1.219104	1.353777		11.0	20	
Naphthalene	A	50.00	49.66	0.9922437	0.9855724	0.7	-0.7	20	
4-Nitroaniline	A	50.00	52.31	0.3237232	0.338659	0.01	4.6	20	
3-Nitroaniline	A	50.00	55.85	0.3275855	0.365944	0.01	11.7	20	
2-Nitroaniline	A	50.00	51.72	0.3368371	0.3484611	0.01	3.5	20	
Nitrobenzene	A	50.00	50.11	0.4042427	0.4051445	0.2	0.2	20	
4-Nitrophenol	A	50.00	49.76	0.263969	0.2627018	0.05	-0.5	20	
2-Nitrophenol	A	50.00	60.87	0.1877485	0.2285625	0.1	21.7	20	*
N-Nitrosodiphenylamine	A	50.00	52.20	0.6783385	0.7081939	0.01	4.4	20	
N-Nitroso-di-n-propylamine	A	50.00	50.24	0.977041	0.9816489	0.5	0.5	20	
Pentachlorophenol	A	50.00	51.58	0.1662584	0.1715037	0.05	3.2	20	
Phenanthrene	A	50.00	50.26	1.082295	1.087959	0.7	0.5	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2L33805	Injection Date:	11/30/12
Lab Sample ID:	2L33805-CCV1	Injection Time:	14:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	53.05	1.701202	1.804949	0.8	6.1	20
Pyrene	A	50.00	51.32	1.182005	1.213267	0.6	2.6	20
2,4,6-Trichlorophenol	A	50.00	51.98	0.3893444	0.4047613	0.2	4.0	20
2,4,5-Trichlorophenol	A	50.00	51.46	0.3894227	0.4008204	0.2	2.9	20
2-Fluorobiphenyl	A	50.00	49.17	1.269863	1.248795	0.01	-1.7	20
2-Fluorophenol	A	100.0	109.3	1.119802	1.223671	0.01	9.3	20
Nitrobenzene-d5	A	50.00	51.30	0.3989519	0.4092864	0.01	2.6	20
Phenol-d6	A	100.0	106.6	1.476584	1.573656	0.01	6.6	20
Terphenyl-d14	A	50.00	59.45	0.755263	0.8980631	0.01	18.9	20
2,4,6-Tribromophenol	A	100.0	106.7	0.1129158	0.1204496	0.01	6.7	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2L33805	Injection Date:	11/30/12
Lab Sample ID:	2L33805-CCV2	Injection Time:	14:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	47.33	1.761778	1.667656	0.01	-5.3	20
Atrazine	A	50.00	50.97	0.2286444	0.2330733	0.01	1.9	20
Benzaldehyde	A	50.00	55.10	0.9974323	1.099114	0.01	10.2	20
Benzidine	A	50.00	65.04	0.650866	0.846705	0.01	30.1	20 *
1,1-Biphenyl	A	50.00	46.88	1.358172	1.273307	0.01	-6.2	20
Caprolactam	A	50.00	60.93	0.1054972	0.1285526	0.01	21.9	20 *
3,3'-Dichlorobenzidine	A	50.00	62.98	0.3990372	0.5026263	0.01	26.0	20 *

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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
GW0761	11/05/12 10:14	11/07/12 08:35	11/08/12 09:35	2.93	7.00	11/14/12 19:05	6.40	40.00	
GW0765	11/05/12 13:13	11/07/12 08:35	11/08/12 09:35	2.81	7.00	11/14/12 19:33	6.42	40.00	
GW0773	11/06/12 12:02	11/07/12 08:35	11/08/12 09:35	1.86	7.00	11/14/12 20:00	6.43	40.00	
GW0829	11/06/12 15:57	11/07/12 08:35	11/08/12 09:35	1.69	7.00	11/14/12 20:27	6.45	40.00	
GW0858	11/05/12 13:00	11/07/12 08:35	11/08/12 09:35	2.82	7.00	11/14/12 20:54	6.47	40.00	
GW0859	11/05/12 10:44	11/07/12 08:35	11/08/12 09:35	2.91	7.00	11/14/12 21:22	6.49	40.00	
GW0772	11/07/12 10:39	11/08/12 08:35	11/09/12 09:30	1.91	7.00	11/20/12 18:41	11.38	40.00	
GW0828	11/07/12 12:59	11/08/12 08:35	11/09/12 09:30	1.81	7.00	11/20/12 19:09	11.40	40.00	
GW0830	11/07/12 15:17	11/08/12 08:35	11/09/12 09:30	1.72	7.00	11/20/12 19:37	11.42	40.00	
GW0757	11/08/12 10:37	11/09/12 08:30	11/13/12 11:30	5.00	7.00	11/29/12 17:08	16.23	40.00	
GW0831	11/08/12 13:51	11/09/12 08:30	11/13/12 11:30	4.86	7.00	11/30/12 14:59	17.15	40.00	
GW0831	11/08/12 13:51	11/09/12 08:30	11/13/12 11:30	4.86	7.00	11/30/12 17:24	17.25	40.00	

PREPARATION BENCH SHEET

2K08004

Empirical Laboratories, LLC

Printed: 11/19/2012 1:34:54PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211026-04	I	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211026-04	I	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211026-09	K	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211026-09	K	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211036-01	P	SMS_BNA_8270D_3510_REG	11/08/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-03	P	SMS_BNA_8270D_3510_REG	11/08/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-05	P	SMS_BNA_8270D_3510_REG	11/08/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-21	P	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211038-04	J	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211038-04	J	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211038-07	I	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211038-07	I	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211043-01	A	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	
1211046-02	H	SMS_BNA_8270D_3510_REG	11/08/2012	1040	1				500	NA	also log in PAH low
1211046-02	H	SMS_PAH_8270D_LOW	11/08/2012	1040	1				500	NA	also log BNA reg
1211046-03	H	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211046-03	H	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211066-01	O	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-03	N	SMS_BNA_8270D_3510_REG	11/08/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-05	AP	SMS_PAH_8270D_LOW	11/08/2012	1000	1				500	NA	Added for BatchQC in: 2K08004
1211066-05	AP	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-07	N	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene

PREPARATION BENCH SHEET

2K08004

Empirical Laboratories, LLC

Printed: 11/19/2012 1:34:54PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-09	O	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-11	N	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211075-02	P	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
2K08004-BLK1		QC	11/08/2012	1000	1				500	NA	
2K08004-BS1		QC	11/08/2012	1000	1	12K0174		500	500	NA	
2K08004-BS2		QC	11/08/2012	1000	1	12J0580		1000	500	NA	
2K08004-BSD2		QC	11/08/2012	1000	1	12J0580		1000	500	NA	
2K08004-MS1		QC	11/08/2012	1000	1	12K0174	1211066-05	500	500	NA	
2K08004-MSD1		QC	11/08/2012	1020	1	12K0174	1211066-05	500	500	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride
12K0040	10N NaOH for Extractions

PREPARATION BENCH SHEET

2K09007

Empirical Laboratories, LLC

Printed: 11/26/2012 11:40:50AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211050-02	K	SMS_BNA_8270D_3510_REG	11/09/2012	1040	1				500	NA	Added for BatchQC in: 2K09007
1211050-02	K	SMS_PAH_8270D_LOW	11/09/2012	1040	1				500	NA	MS/MSD.
1211050-03	D	SMS_PAH_8270D_LOW	11/09/2012	1060	1				500	NA	
1211050-04	D	SMS_PAH_8270D_LOW	11/09/2012	1020	1				500	NA	
1211050-05	D	SMS_PAH_8270D_LOW	11/09/2012	1020	1				500	NA	
1211059-02	E	SMS_PAH_8270D_LOW	11/09/2012	1040	1				500	NA	
1211059-03	E	SMS_PAH_8270D_LOW	11/09/2012	1040	1				500	NA	
1211059-04	D	SMS_PAH_8270D_LOW	11/09/2012	1080	1				500	NA	
1211059-05	E	SMS_PAH_8270D_LOW	11/09/2012	1060	1				500	NA	
1211059-06	D	SMS_PAH_8270D_LOW	11/09/2012	1040	1				500	NA	
1211059-07	E	SMS_PAH_8270D_LOW	11/09/2012	1000	1				500	NA	
1211059-08	E	SMS_PAH_8270D_LOW	11/09/2012	1040	1				500	NA	
1211059-09	E	SMS_PAH_8270D_LOW	11/09/2012	1000	1				500	NA	
1211061-31	G	SMS_PAH_8270D_LOW	11/09/2012	1080	1				500	NA	also select BNA
1211061-31	G	SMS_BNA_8270D_3510_REG	11/09/2012	1080	1				500	NA	also select PAH low
1211061-32	H	SMS_BNA_8270D_3510_REG	11/09/2012	1080	1				500	NA	also select PAH low
1211061-32	H	SMS_PAH_8270D_LOW	11/09/2012	1080	1				500	NA	also select BNA
1211061-33	H	SMS_PAH_8270D_LOW	11/09/2012	1080	1				500	NA	also select BNA
1211061-33	H	SMS_BNA_8270D_3510_REG	11/09/2012	1080	1				500	NA	also select PAH low
1211074-01	O	SMS_BNA_8270D_3510_REG	11/09/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211074-03	P	SMS_BNA_8270D_3510_REG	11/09/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211074-05	O	SMS_BNA_8270D_3510_REG	11/09/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene

PREPARATION BENCH SHEET

2K09007

Empirical Laboratories, LLC

Printed: 11/26/2012 11:40:50AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K09007-BLK1		QC	11/09/2012	1000	1				500	NA	
2K09007-BLK2		QC	11/09/2012	1000	1				500	NA	Added 11/21/2012 by MEC
2K09007-BS1		QC	11/09/2012	1000	1	12K0174		500	500	NA	
2K09007-BS2		QC	11/09/2012	1000	1	12J0580		1000	500	NA	
2K09007-BSD2		QC	11/09/2012	1000	1	12J0580		1000	500	NA	
2K09007-MS1		QC	11/09/2012	1060	1	12K0174	1211050-02	500	500	NA	
2K09007-MSD1		QC	11/09/2012	1060	1	12K0174	1211050-02	500	500	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride
12K0040	10N NaOH for Extractions

PREPARATION BENCH SHEET

2K13003

Empirical Laboratories, LLC

Printed: 12/2/2012 7:12:11AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211081-01	E	SMS_PAH_8270D_LOW	11/13/2012	1080	1				500	NA	
1211091-01	O	SMS_BNA_8270D_3510_REG	11/13/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211091-03	O	SMS_BNA_8270D_3510_REG	11/13/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211091-03RE1	O	SMS_BNA_8270D_3510_REG	11/13/2012	1020	1				500	NA	RR 200x(OLR)-ADM
1211091-03RE2	O	SMS_BNA_8270D_3510_REG	11/13/2012	1020	1				500	NA	RR 1000x(OLR)-ADM
1211101-04	S	SMS_PAH_8270D_LOW	11/13/2012	1040	1				500	NA	MS/MD.
1211101-04	S	SMS_BNA_8270D_3510_REG	11/13/2012	1040	1				500	NA	Added for BatchQC in: 2K13003
1211101-04	S	SMS_BNA_8270D_LOW_3510	11/13/2012	1040	1				500	NA	Added for BatchQC in: 2K13003
1211101-05	F	SMS_PAH_8270D_LOW	11/13/2012	1060	1				500	NA	see versions
2K13003-BLK1		QC	11/13/2012	1000	1				500	NA	
2K13003-BLK2		QC	11/13/2012	1000	1				500	NA	Added 11/27/2012 by MEC
2K13003-BS1		QC	11/13/2012	1000	1	12K0174		500	500	NA	
2K13003-BS2		QC	11/13/2012	1000	1	12J0580		1000	500	NA	
2K13003-BSD2		QC	11/13/2012	1000	1	12J0580		1000	500	NA	
2K13003-MS1		QC	11/13/2012	1080	1	12K0174	1211101-04	500	500	NA	
2K13003-MSD1		QC	11/13/2012	1040	1	12K0174	1211101-04	500	500	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12K0040	10N NaOH for Extractions
12K0322	Methylene Chloride

PREPARATION BENCH SHEET

2K13003

Empirical Laboratories, LLC

Printed: 12/2/2012 7:12:11AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Data for SW8011 Forms

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01RE1 [GW0761]	2K08010	35.00/35.00	37.3	35.0	25.00			11/08/12
1211066-03RE2 [GW0765]	2K08010	35.00/35.00	37.6	35.0	400.00			11/08/12
1211066-05 [GW0773]	2K08010	35.00/35.00	37.0	35.0	1.00			11/08/12
1211066-07 [GW0829]	2K08010	35.00/35.00	37.2	35.0	1.00			11/08/12
1211066-09 [GW0858]	2K08010	35.00/35.00	37.0	35.0	1.00			11/08/12
1211066-11 [GW0859]	2K08010	35.00/35.00	37.3	35.0	1.00			11/08/12
1211074-01 [GW0772]	2K08010	35.00/35.00	37.4	35.0	1.00			11/08/12
1211074-03 [GW0828]	2K08010	35.00/35.00	37.6	35.0	1.00			11/08/12
1211074-05 [GW0830]	2K08010	35.00/35.00	37.5	35.0	1.00			11/08/12

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K14021	35.00/35.00	36.8	35.0	1.00			11/14/12
1211091-03RE1 [GW0831]	2K14021	35.00/35.00	37.4	35.0	400.00			11/14/12

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01RE1	File ID:	005R0101.D
Sampled:	11/05/12 10:14	Prepared:	11/08/12 09:57	Analyzed:	11/13/12 16:59
Solids:		Preparation:	EDB	Dilution:	25

Batch: 2K08010 Sequence: 2K32301 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	14.2	0.235	0.469	0.704	D

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03RE2	File ID:	005R0101.D
Sampled:	11/05/12 13:13	Prepared:	11/08/12 09:57	Analyzed:	11/14/12 14:06
Solids:		Preparation:	EDB	Dilution:	400

Batch: 2K08010 Sequence: 2K32302 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	270	3.72	7.44	11.2	D

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	010F0101.D
Sampled:	11/06/12 12:02	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 15:57
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.0552	0.00946	0.0189	0.0284	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.881	1.631	86.7	30 - 130	
1,3-Dibromopropane [2C]	1.881	1.929	103	30 - 130	Y

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	013F0101.D
Sampled:	11/06/12 15:57	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 17:01
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00942	0.0188	0.0282	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.873	1.589	84.9	30 - 130	
1,3-Dibromopropane [2C]	1.873	1.322	70.6	30 - 130	Y

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	014R0101.D
Sampled:	11/05/12 13:00	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 17:22
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00947	0.0189	0.0284	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.884	1.572	83.5	30 - 130	
1,3-Dibromopropane [2C]	1.884	1.319	70.0	30 - 130	Y

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	015R0101.D
Sampled:	11/05/12 10:44	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 17:43
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 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	1.868	1.638	87.7	30 - 130	
1,3-Dibromopropane [2C]	1.868	1.396	74.8	30 - 130	Y

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	016R0101.D
Sampled:	11/07/12 10:39	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 18:04
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 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	1.862	1.669	89.6	30 - 130	
1,3-Dibromopropane [2C]	1.862	1.435	77.1	30 - 130	Y

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	017R0101.D
Sampled:	11/07/12 12:59	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 18:26
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0634	0.00931	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.852	1.550	83.7	30 - 130	
1,3-Dibromopropane [2C]	1.852	1.330	71.8	30 - 130	Y

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	018F0101.D
Sampled:	11/07/12 15:17	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 18:47
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.0905	0.00934	0.0187	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.858	1.710	92.0	30 - 130	
1,3-Dibromopropane [2C]	1.858	1.445	77.7	30 - 130	Y

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	010R0101.D
Sampled:	11/08/12 10:37	Prepared:	11/14/12 11:46	Analyzed:	11/14/12 19:48
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K14021 Sequence: 2K32303 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.753	0.00950	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.890	1.907	101	30 - 130	
1,3-Dibromopropane [2C]	1.890	1.482	78.4	30 - 130	Y

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03RE1	File ID:	010R0101.D
Sampled:	11/08/12 13:51	Prepared:	11/14/12 11:46	Analyzed:	11/20/12 15:04
Solids:		Preparation:	EDB	Dilution:	400

Batch: 2K14021 Sequence: 2K32804 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	283	3.75	7.49	11.2	D

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31716	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31716-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 11/08/12 13:07		
1,3-Dibromopropane	1.989	98.9	80 - 120	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	89.7	80 - 120	6.056	6.056	0.0000	+/-0.030	
Blank (2K08010-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 11/08/12 13:28		
1,3-Dibromopropane	1.989	101	30 - 130	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	90.9	30 - 130	6.056	6.056	0.0000	+/-0.030	
LCS (2K08010-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 11/08/12 13:49		
1,3-Dibromopropane	1.989	98.6	30 - 130	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	87.6	30 - 130	6.056	6.056	0.0000	+/-0.030	
Calibration Check (2K31716-CCV2) ug/L				Lab File ID: 007F0101.D		Analyzed: 11/08/12 14:53		
1,3-Dibromopropane	1.989	96.4	80 - 120	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	83.4	80 - 120	6.056	6.056	0.0000	+/-0.030	
GW0773 (1211066-05) ug/L				Lab File ID: 010F0101.D		Analyzed: 11/08/12 15:57		
1,3-Dibromopropane	1.881	86.7	30 - 130	6.006	6.003	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.881	103	30 - 130	6.06	6.056	0.0040	+/-0.030	
Matrix Spike (2K08010-MS1) ug/L				Lab File ID: 011F0101.D		Analyzed: 11/08/12 16:19		
1,3-Dibromopropane	1.866	86.7	30 - 130	6.006	6.003	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.866	71.8	30 - 130	6.06	6.056	0.0040	+/-0.030	
Matrix Spike Dup (2K08010-MSD1) ug/L				Lab File ID: 012F0101.D		Analyzed: 11/08/12 16:40		
1,3-Dibromopropane	1.888	85.4	30 - 130	6.006	6.003	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.888	71.4	30 - 130	6.063	6.056	0.0070	+/-0.030	
GW0829 (1211066-07) ug/L				Lab File ID: 013F0101.D		Analyzed: 11/08/12 17:01		
1,3-Dibromopropane	1.873	84.9	30 - 130	6.006	6.003	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.873	70.6	30 - 130	6.063	6.056	0.0070	+/-0.030	
GW0858 (1211066-09) ug/L				Lab File ID: 014F0101.D		Analyzed: 11/08/12 17:22		
1,3-Dibromopropane	1.884	83.5	30 - 130	6.01	6.003	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.884	70.0	30 - 130	6.063	6.056	0.0070	+/-0.030	
GW0859 (1211066-11) ug/L				Lab File ID: 015F0101.D		Analyzed: 11/08/12 17:43		
1,3-Dibromopropane	1.868	87.7	30 - 130	6.01	6.003	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.868	74.8	30 - 130	6.063	6.056	0.0070	+/-0.030	
GW0772 (1211074-01) ug/L				Lab File ID: 016F0101.D		Analyzed: 11/08/12 18:04		
1,3-Dibromopropane	1.862	89.6	30 - 130	6.01	6.003	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.862	77.1	30 - 130	6.063	6.056	0.0070	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31716	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0828 (1211074-03) ug/L				Lab File ID: 017F0101.D		Analyzed: 11/08/12 18:26		
1,3-Dibromopropane	1.852	83.7	30 - 130	6.01	6.003	0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.852	71.8	30 - 130	6.066	6.056	0.0100	+/-0.030	
GW0830 (1211074-05) ug/L				Lab File ID: 018F0101.D		Analyzed: 11/08/12 18:47		
1,3-Dibromopropane	1.858	92.0	30 - 130	6.013	6.003	0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.858	77.7	30 - 130	6.066	6.056	0.0100	+/-0.030	
Calibration Check (2K31716-CCV3) ug/L				Lab File ID: 019F0101.D		Analyzed: 11/08/12 19:09		
1,3-Dibromopropane	1.989	91.8	80 - 120	6.013	6.003	0.0100	+/-0.030	
1,3-Dibromopropane [2C]	1.989	79.5	80 - 120	6.066	6.056	0.0100	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32303	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32303-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 11/14/12 16:57		
1,3-Dibromopropane	1.989	96.9	80 - 120	6.013	6.013	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	94.5	80 - 120	6.066	6.066	0.0000	+/-0.030	
Blank (2K14021-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 11/14/12 17:18		
1,3-Dibromopropane	1.989	96.2	30 - 130	6.013	6.013	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	93.6	30 - 130	6.066	6.066	0.0000	+/-0.030	
LCS (2K14021-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 11/14/12 17:39		
1,3-Dibromopropane	1.989	88.6	30 - 130	6.013	6.013	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	85.2	30 - 130	6.066	6.066	0.0000	+/-0.030	
LCS Dup (2K14021-BSD1) ug/L				Lab File ID: 005F0101.D		Analyzed: 11/14/12 18:01		
1,3-Dibromopropane	1.989	91.9	30 - 130	6.013	6.013	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	88.2	30 - 130	6.066	6.066	0.0000	+/-0.030	
GW0757 (1211091-01) ug/L				Lab File ID: 010F0101.D		Analyzed: 11/14/12 19:48		
1,3-Dibromopropane	1.890	101	30 - 130	6.01	6.013	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.890	78.4	30 - 130	6.066	6.066	0.0000	+/-0.030	
Calibration Check (2K32303-CCV2) ug/L				Lab File ID: 013F0101.D		Analyzed: 11/14/12 20:52		
1,3-Dibromopropane	1.989	84.7	80 - 120	6.01	6.013	-0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.989	69.3	80 - 120	6.063	6.066	-0.0030	+/-0.030	*

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08010	Laboratory ID:	2K08010-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	0.5012	100	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4714	94.3	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K14021	Laboratory ID:	2K14021-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	0.4992	99.8	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4927	98.5	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5046	101	1.07	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4988	99.8	1.23	20	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08010

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4692	0.05525	0.4465	83.4		70 - 130
1,2-Dibromoethane [2C]	0.4692	0.03539	0.3812	73.7		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4746	0.4489	82.9	0.541		20	70 - 130
1,2-Dibromoethane [2C]	0.4746	0.3967	76.1	4.00		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K08010 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01RE1	11/08/12 09:57	37.30	35.00
GW0765	1211066-03RE2	11/08/12 09:57	37.64	35.00
GW0773	1211066-05	11/08/12 09:57	37.00	35.00
GW0829	1211066-07	11/08/12 09:57	37.17	35.00
GW0858	1211066-09	11/08/12 09:57	36.95	35.00
GW0859	1211066-11	11/08/12 09:57	37.27	35.00
GW0772	1211074-01	11/08/12 09:57	37.39	35.00
GW0828	1211074-03	11/08/12 09:57	37.59	35.00
GW0830	1211074-05	11/08/12 09:57	37.46	35.00
Blank	2K08010-BLK1	11/08/12 09:57	35.00	35.00
LCS	2K08010-BS1	11/08/12 09:57	35.00	35.00
GW0773	2K08010-MS1	11/08/12 09:57	37.30	35.00
GW0773	2K08010-MSD1	11/08/12 09:57	36.87	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K14021 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/14/12 11:46	36.83	35.00
GW0831	1211091-03RE1	11/14/12 11:46	37.37	35.00
Blank	2K14021-BLK1	11/14/12 11:46	35.00	35.00
LCS	2K14021-BS1	11/14/12 11:46	35.00	35.00
LCS Dup	2K14021-BSD1	11/14/12 11:46	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	11/08/12 09:57	Analyzed:	11/08/12 13:28
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.017	101	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.808	90.9	30 - 130	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K14021-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	11/14/12 11:46	Analyzed:	11/14/12 17:18
Solids:		Preparation:	EDB	Dilution:	

Batch: 2K14021 Sequence: 2K32303 Calibration: 2292002 Instrument: GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.912	96.2	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.862	93.6	30 - 130	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 13:49
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5012**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.961	98.6	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K08010-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 11/08/12 13:49
Solids:
Preparation: EDB
Dilution:
Batch: 2K08010
Sequence: 2K31716
Calibration: 2292002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4714**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.742	87.6	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-MS1	File ID:	011F0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 16:19
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4465**	0.00938	0.0188	0.0282	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.866	1.619	86.7	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K08010-MS1
File ID: 011R0101.D
Sampled:
Prepared:
Analyzed: 11/08/12 16:19
Solids:
Preparation: EDB
Dilution:
Batch: 2K08010
Sequence: 2K31716
Calibration: 2292002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.3812**	0.00938	0.0188	0.0282	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.866	1.340	71.8	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-MSD1	File ID:	012F0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 16:40
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4489**	0.00949	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.888	1.611	85.4	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-MSD1	File ID:	012R0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 16:40
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.3967**	0.00949	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.888	1.347	71.4	30 - 130	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K14021-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	11/14/12 17:39
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K14021	Sequence:	2K32303	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4992**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.763	88.6	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K14021-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	11/14/12 17:39
Solids:		Preparation:	EDB	Dilution:	

Batch: 2K14021 Sequence: 2K32303 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4927**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.694	85.2	30 - 130	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K14021-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	11/14/12 18:01
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K14021	Sequence:	2K32303	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5046**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.827	91.9	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K14021-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	11/14/12 18:01
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K14021	Sequence:	2K32303	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4988**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.755	88.2	30 - 130	Y

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004R0101.D	10/11/12 16:10
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004F0101.D	10/11/12 16:10
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005R0101.D	10/11/12 16:31
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005F0101.D	10/11/12 16:31
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006R0101.D	10/11/12 16:53
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006F0101.D	10/11/12 16:53
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007R0101.D	10/11/12 17:14
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007F0101.D	10/11/12 17:14
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008R0101.D	10/11/12 17:35
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008F0101.D	10/11/12 17:35
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009R0101.D	10/11/12 17:56
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009F0101.D	10/11/12 17:56

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29206-CAL1	004R0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL1	004F0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL2	005R0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL2	005F0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL3	006R0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL3	006F0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL4	007R0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL4	007F0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL5	008R0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL5	008F0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL6	009R0101.D	10/11/12 17:56
Cal Standard	2J29206-CAL6	009F0101.D	10/11/12 17:56
Initial Cal Check	2J29206-ICV1	010R0101.D	10/11/12 18:18
Initial Cal Check	2J29206-ICV1	010F0101.D	10/11/12 18:18

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31716	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31716-CCV1	002R0101.D	11/08/12 13:07
Calibration Check	2K31716-CCV1	002F0101.D	11/08/12 13:07
Blank	2K08010-BLK1	003R0101.D	11/08/12 13:28
Blank	2K08010-BLK1	003F0101.D	11/08/12 13:28
LCS	2K08010-BS1	004F0101.D	11/08/12 13:49
LCS	2K08010-BS1	004R0101.D	11/08/12 13:49
Calibration Check	2K31716-CCV2	007R0101.D	11/08/12 14:53
Calibration Check	2K31716-CCV2	007F0101.D	11/08/12 14:53
GW0773	1211066-05	010R0101.D	11/08/12 15:57
GW0773	1211066-05	010F0101.D	11/08/12 15:57
GW0773	2K08010-MS1	011R0101.D	11/08/12 16:19
GW0773	2K08010-MS1	011F0101.D	11/08/12 16:19
GW0773	2K08010-MSD1	012R0101.D	11/08/12 16:40
GW0773	2K08010-MSD1	012F0101.D	11/08/12 16:40
GW0829	1211066-07	013R0101.D	11/08/12 17:01
GW0829	1211066-07	013F0101.D	11/08/12 17:01
GW0858	1211066-09	014R0101.D	11/08/12 17:22
GW0858	1211066-09	014F0101.D	11/08/12 17:22
GW0859	1211066-11	015R0101.D	11/08/12 17:43
GW0859	1211066-11	015F0101.D	11/08/12 17:43
GW0772	1211074-01	016R0101.D	11/08/12 18:04
GW0772	1211074-01	016F0101.D	11/08/12 18:04
GW0828	1211074-03	017R0101.D	11/08/12 18:26
GW0828	1211074-03	017F0101.D	11/08/12 18:26
GW0830	1211074-05	018F0101.D	11/08/12 18:47
GW0830	1211074-05	018R0101.D	11/08/12 18:47
Calibration Check	2K31716-CCV3	019R0101.D	11/08/12 19:09
Calibration Check	2K31716-CCV3	019F0101.D	11/08/12 19:09

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32301	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32301-CCV1	002R0101.D	11/13/12 15:55
Calibration Check	2K32301-CCV1	002F0101.D	11/13/12 15:55
GW0761	1211066-01RE1	005R0101.D	11/13/12 16:59
GW0761	1211066-01RE1	005F0101.D	11/13/12 16:59
Calibration Check	2K32301-CCV2	007R0101.D	11/13/12 17:42
Calibration Check	2K32301-CCV2	007F0101.D	11/13/12 17:42

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32302	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32302-CCV1	002R0101.D	11/14/12 13:02
Calibration Check	2K32302-CCV1	002F0101.D	11/14/12 13:02
GW0765	1211066-03RE2	005R0101.D	11/14/12 14:06
GW0765	1211066-03RE2	005F0101.D	11/14/12 14:06
Calibration Check	2K32302-CCV2	006R0101.D	11/14/12 14:28
Calibration Check	2K32302-CCV2	006F0101.D	11/14/12 14:28

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32303	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32303-CCV1	002R0101.D	11/14/12 16:57
Calibration Check	2K32303-CCV1	002F0101.D	11/14/12 16:57
Blank	2K14021-BLK1	003R0101.D	11/14/12 17:18
Blank	2K14021-BLK1	003F0101.D	11/14/12 17:18
LCS	2K14021-BS1	004R0101.D	11/14/12 17:39
LCS	2K14021-BS1	004F0101.D	11/14/12 17:39
LCS Dup	2K14021-BSD1	005R0101.D	11/14/12 18:01
LCS Dup	2K14021-BSD1	005F0101.D	11/14/12 18:01
GW0757	1211091-01	010R0101.D	11/14/12 19:48
GW0757	1211091-01	010F0101.D	11/14/12 19:48
Calibration Check	2K32303-CCV2	013R0101.D	11/14/12 20:52
Calibration Check	2K32303-CCV2	013F0101.D	11/14/12 20:52

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32804	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32804-CCV1	002R0101.D	11/20/12 12:14
Calibration Check	2K32804-CCV1	002F0101.D	11/20/12 12:14
GW0831	1211091-03RE1	010R0101.D	11/20/12 15:04
GW0831	1211091-03RE1	010F0101.D	11/20/12 15:04
Calibration Check	2K32804-CCV2	011R0101.D	11/20/12 15:25
Calibration Check	2K32804-CCV2	011F0101.D	11/20/12 15:25

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2292002		Instrument:	GL-ECD2	
Matrix:	Water		Calibration Dates:	10/11/12 16:10	10/11/12 17:56

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.02	10650	0.05	10860	0.1	10660	0.2	9475	0.5	9386	1	8356
1,2-Dibromoethane [2C]	0.02	31550	0.05	34320	0.1	34660	0.2	32510	0.5	31110	1	30406
1,2-Dibromo-3-chloropropane	0.02	22600	0.05	20080	0.1	19070	0.2	16850	0.5	15220	1	13344
1,2-Dibromo-3-chloropropane [2C]	0.02	68550	0.05	63880	0.1	59900	0.2	56300	0.5	56304	1	53927
1,3-Dibromopropane	0.09944	6244.972	0.1989	~~2885.872~~	0.4972	6391.794	0.9944	5737.128	1.989	5078.431	3.978	4436.4
1,3-Dibromopropane [2C]	0.09944	26739.74	0.1989	~~12227.25~~	0.4972	24656.07	0.9944	22013.27	1.989	19895.93	3.978	17722.72

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2292002	Instrument:	GL-ECD2		
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	9897.833	9.991906	2.694	0.0551041			20	
1,2-Dibromoethane [2C]	32426	5.370791	2.66	1.685277E-02			20	
1,2-Dibromo-3-chloropropane	17860.67	18.94447	8.78	1.335599E-02			20	
1,2-Dibromo-3-chloropropane [2C]	59810.17	9.224062	9.119333	2.295245E-02			20	
1,3-Dibromopropane	5577.745	14.68939	6.0154	2.089261E-02			20	
1,3-Dibromopropane [2C]	22205.55	16.242	6.0692	2.971043E-02			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	010F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29206	Injection Date:	10/11/12
Lab Sample ID:	2J29206-ICV1	Injection Time:	18:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4839	9897.833	9580		-3.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.4886	32426	31684		-2.3	20
1,3-Dibromopropane	A	1.989	1.779	5577.745	4989.945		-10.5	20
1,3-Dibromopropane [2C]	A	1.989	1.741	22205.55	19441.43		-12.4	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31716	Injection Date:	11/08/12
Lab Sample ID:	2K31716-CCV1	Injection Time:	13:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5052	9897.833	10002		1.1	20
1,2-Dibromoethane [2C]	A	0.5000	0.4736	32426	30714		-5.3	20
1,3-Dibromopropane	A	1.989	1.968	5577.745	5520.362		-1.0	20
1,3-Dibromopropane [2C]	A	1.989	1.785	22205.55	19927.6		-10.3	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	007F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31716	Injection Date:	11/08/12
Lab Sample ID:	2K31716-CCV2	Injection Time:	14:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4932	9897.833	9764		-1.4	20
1,2-Dibromoethane [2C]	A	0.5000	0.4349	32426	28204		-13.0	20
1,3-Dibromopropane	A	1.989	1.917	5577.745	5375.566		-3.6	20
1,3-Dibromopropane [2C]	A	1.989	1.658	22205.55	18511.81		-16.6	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	019F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31716	Injection Date:	11/08/12
Lab Sample ID:	2K31716-CCV3	Injection Time:	19:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4515	9897.833	8938		-9.7	20
1,2-Dibromoethane [2C]	A	0.5000	0.4160	32426	26980		-16.8	20
1,3-Dibromopropane	A	1.989	1.826	5577.745	5121.166		-8.2	20
1,3-Dibromopropane [2C]	A	1.989	1.581	22205.55	17654.6		-20.5	20 *

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32301	Injection Date:	11/13/12
Lab Sample ID:	2K32301-CCV1	Injection Time:	15:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4986	9897.833	9870		-0.3	20
1,2-Dibromoethane [2C]	A	0.5000	0.4395	32426	28500		-12.1	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	007F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32301	Injection Date:	11/13/12
Lab Sample ID:	2K32301-CCV2	Injection Time:	17:42

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4632	9897.833	9170		-7.4	20
1,2-Dibromoethane [2C]	A	0.5000	0.4453	32426	28878		-10.9	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32302	Injection Date:	11/14/12
Lab Sample ID:	2K32302-CCV1	Injection Time:	13:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5030	9897.833	9958		0.6	20
1,2-Dibromoethane [2C]	A	0.5000	0.4903	32426	31800		-1.9	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	006F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32302	Injection Date:	11/14/12
Lab Sample ID:	2K32302-CCV2	Injection Time:	14:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4954	9897.833	9806		-0.9	20
1,2-Dibromoethane [2C]	A	0.5000	0.5101	32426	33080		2.0	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32303	Injection Date:	11/14/12
Lab Sample ID:	2K32303-CCV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5327	9897.833	10546		6.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.5552	32426	36006		11.0	20
1,3-Dibromopropane	A	1.989	1.928	5577.745	5407.24		-3.1	20
1,3-Dibromopropane [2C]	A	1.989	1.879	22205.55	20973.86		-5.5	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	013F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32303	Injection Date:	11/14/12
Lab Sample ID:	2K32303-CCV2	Injection Time:	20:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4526	9897.833	8960		-9.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4058	32426	26320		-18.8	20
1,3-Dibromopropane	A	1.989	1.685	5577.745	4724.485		-15.3	20
1,3-Dibromopropane [2C]	A	1.989	1.378	22205.55	15384.11		-30.7	20 *

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32804	Injection Date:	11/20/12
Lab Sample ID:	2K32804-CCV1	Injection Time:	12:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5340	9897.833	10572		6.8	20
1,2-Dibromoethane [2C]	A	0.5000	0.4646	32426	30130		-7.1	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	011F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32804	Injection Date:	11/20/12
Lab Sample ID:	2K32804-CCV2	Injection Time:	15:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5158	9897.833	10210		3.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.4545	32426	29478		-9.1	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0761

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211066-01RE1

Date(s) Analyzed: 11/13/2012 11/13/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	13.1	
	2	2.66	2.63	2.69	14.2	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0765

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211066-03RE2

Date(s) Analyzed: 11/14/2012 11/14/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	261	
	2	2.66	2.63	2.69	270	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0773

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211066-05 Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.0552	
	2	2.65	2.62	2.68	0.0354	44

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0828

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211074-03 Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.0447	
	2	2.66	2.62	2.68	0.0634	35

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0830

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211074-05 Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.0905	
	2	2.66	2.62	2.68	0.0742	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K08010-BS1 Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5012	
	2	2.65	2.62	2.68	0.4714	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K08010-MS1 Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4465	
	2	2.66	2.62	2.68	0.3812	16

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K08010-MSD1

Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4489	
	2	2.66	2.62	2.68	0.3967	12

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0757

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211091-01 Date(s) Analyzed: 11/14/2012 11/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.702	
	2	2.66	2.63	2.69	0.753	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0831

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211091-03RE1 Date(s) Analyzed: 11/20/2012 11/20/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	281	
	2	2.65	2.63	2.69	283	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K14021-BS1 Date(s) Analyzed: 11/14/2012 11/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4992	
	2	2.66	2.63	2.69	0.4927	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K14021-BSD1 Date(s) Analyzed: 11/14/2012 11/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5046	
	2	2.66	2.63	2.69	0.4988	1

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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
GW0761	11/05/12 10:14	11/07/12 08:35	11/08/12 09:57	N/A	14.00	11/13/12 16:59	8.24	14.00	
GW0765	11/05/12 13:13	11/07/12 08:35	11/08/12 09:57	N/A	14.00	11/14/12 14:06	9.00	14.00	
GW0773	11/06/12 12:02	11/07/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 15:57	2.12	14.00	
GW0829	11/06/12 15:57	11/07/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 17:01	2.00	14.00	
GW0858	11/05/12 13:00	11/07/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 17:22	3.14	14.00	
GW0859	11/05/12 10:44	11/07/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 17:43	3.25	14.00	
GW0772	11/07/12 10:39	11/08/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 18:04	1.27	14.00	
GW0828	11/07/12 12:59	11/08/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 18:26	1.19	14.00	
GW0830	11/07/12 15:17	11/08/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 18:47	1.10	14.00	
GW0757	11/08/12 10:37	11/09/12 08:30	11/14/12 11:46	N/A	14.00	11/14/12 19:48	6.34	14.00	
GW0831	11/08/12 13:51	11/09/12 08:30	11/14/12 11:46	N/A	14.00	11/20/12 15:04	12.01	14.00	

PREPARATION BENCH SHEET

2K08010

Empirical Laboratories, LLC

Printed: 11/19/2012 1:51:49PM

Instrument:

Matrix: Water **Prepared using: GCLC - EDB** **Surrogate used: 12K0201**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-01	G	SGC_EDB_8011	11/08/2012	37.2984	35				140	NA	Run dilutions based on 8260 results!
1211066-01RE1	G	SGC_EDB_8011	11/08/2012	37.2984	35				140	NA	25x; Added 11/12/2012 by PRC
1211066-03	G	SGC_EDB_8011	11/08/2012	37.6437	35				140	NA	Run dilutions based on 8260 results!
1211066-03RE1	G	SGC_EDB_8011	11/08/2012	37.6437	35				140	NA	250x; Added 11/12/2012 by PRC
1211066-03RE2	G	SGC_EDB_8011	11/08/2012	37.6437	35				140	NA	Added 11/18/2012 by PRC
1211066-05	S	SGC_EDB_8011	11/08/2012	36.9978	35				140	NA	MS/MSD, Run dilutions based on 8260 results!
1211066-07	G	SGC_EDB_8011	11/08/2012	37.1731	35				140	NA	Run dilutions based on 8260 results!
1211066-09	G	SGC_EDB_8011	11/08/2012	36.9506	35				140	NA	Run dilutions based on 8260 results!
1211066-11	G	SGC_EDB_8011	11/08/2012	37.2717	35				140	NA	Run dilutions based on 8260 results!
1211074-01	G	SGC_EDB_8011	11/08/2012	37.3894	35				140	NA	Run dilutions based on 8260 results!
1211074-03	G	SGC_EDB_8011	11/08/2012	37.588	35				140	NA	Run dilutions based on 8260 results!
1211074-05	G	SGC_EDB_8011	11/08/2012	37.4555	35				140	NA	Run dilutions based on 8260 results!
1211075-01	D	SGC_EDB_8011	11/08/2012	37.1875	35				140	NA	Run dilutions based on 8260 results!
1211075-02	G	SGC_EDB_8011	11/08/2012	37.5711	35				140	NA	Run dilutions based on 8260 results!
2K08010-BLK1		QC	11/08/2012	35	35				140	NA	
2K08010-BS1		QC	11/08/2012	35	35	12K0202		35	140	NA	
2K08010-MS1		QC	11/08/2012	37.2963	35	12K0202	1211066-05	35	140	NA	
2K08010-MSD1		QC	11/08/2012	36.8745	35	12K0202	1211066-05	35	140	NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K14021

Empirical Laboratories, LLC

Printed: 11/27/2012 2:51:51PM

Instrument:

Matrix: Water **Prepared using: GCLC - EDB** **Surrogate used: 12K0201**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211091-01	H	SGC_EDB_8011	11/14/2012	36.83	35				140	NA	Run dilutions based on 8260 results!
1211091-03	I	SGC_EDB_8011	11/14/2012	37.37	35				140	NA	Run dilutions based on 8260 results!
1211091-03RE1	I	SGC_EDB_8011	11/14/2012	37.37	35				140	NA	Added 11/18/2012 by PRC
1211109-01	C	SGC_EDB_8011	11/14/2012	35	35				140	NA	
1211132-01	I	SGC_EDB_8011	11/14/2012	37.04	35				140	NA	Run dilutions based on 8260 results!
1211132-03	I	SGC_EDB_8011	11/14/2012	37.04	35				140	NA	Run dilutions based on 8260 results!
1211132-05	I	SGC_EDB_8011	11/14/2012	37.33	35				140	NA	Run dilutions based on 8260 results!
1211133-01	I	SGC_EDB_8011	11/14/2012	37.39	35				140	NA	Run dilutions based on 8260 results!
1211133-01RE1	I	SGC_EDB_8011	11/14/2012	37.39	35				140	NA	Added 11/18/2012 by PRC
2K14021-BLK1		QC	11/14/2012	35	35				140	NA	
2K14021-BS1		QC	11/14/2012	35	35	12K0443		35	140	NA	
2K14021-BSD1		QC	11/14/2012	35	35	12K0443		35	140	NA	

Reagents Used:

Standard	Description

SW8015B (DRO)
Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01RE1 [GW0761]	2K08016	1,000.00/1.00	1080	1.00	25.00			11/08/12
1211066-03RE1 [GW0765]	2K08016	1,000.00/1.00	1060	1.00	150.00			11/08/12
1211066-05 [GW0773]	2K08016	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211066-07 [GW0829]	2K08016	1,000.00/1.00	1020	1.00	1.00			11/08/12
1211066-09 [GW0858]	2K08016	1,000.00/1.00	1020	1.00	1.00			11/08/12
1211066-11 [GW0859]	2K08016	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211074-01 [GW0772]	2K08016	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211074-03 [GW0828]	2K08016	1,000.00/1.00	1000	1.00	1.00			11/08/12
1211074-05 [GW0830]	2K08016	1,000.00/1.00	1000	1.00	1.00			11/08/12

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K12008	1,000.00/1.00	1020	1.00	1.00			11/12/12
1211091-03RE1 [GW0831]	2K12008	1,000.00/1.00	1020	1.00	400.00			11/12/12

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01RE1	File ID:	005F0501.D
Sampled:	11/05/12 10:14	Prepared:	11/08/12 13:00	Analyzed:	11/21/12 18:36
Solids:		Preparation:	EXT_3510	Dilution:	25

Batch: 2K08016 Sequence: 2K33210 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**19.9**	2.31	4.63	9.26	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.03683	199	30 - 140	D

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03RE1	File ID:	006F0601.D
Sampled:	11/05/12 13:13	Prepared:	11/08/12 13:00	Analyzed:	11/21/12 19:09
Solids:		Preparation:	EXT_3510	Dilution:	150

Batch: 2K08016 Sequence: 2K33210 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**46.2**	14.2	28.3	56.6	JD

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.1480	785	30 - 140	D

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	025F2501.D
Sampled:	11/06/12 12:02	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 09:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01459	73.0	30 - 140	

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	028F2801.D
Sampled:	11/06/12 15:57	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 11:22
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01437	73.3	30 - 140	

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	029F2901.D
Sampled:	11/05/12 13:00	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 11:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01728	88.1	30 - 140	

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	030F3001.D
Sampled:	11/05/12 10:44	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 12:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01388	69.4	30 - 140	

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	031F3101.D
Sampled:	11/07/12 10:39	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 13:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02007	100	30 - 140	

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	034F3401.D
Sampled:	11/07/12 12:59	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 14:44
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**1.12**	0.100	0.200	0.400	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01543	77.1	30 - 140	

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	035F3501.D
Sampled:	11/07/12 15:17	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 15:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.141**	0.100	0.200	0.400	J

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01814	90.7	30 - 140	

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	061F6101.D
Sampled:	11/08/12 10:37	Prepared:	11/12/12 14:00	Analyzed:	11/17/12 05:36
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K12008 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.836**	0.0980	0.196	0.392	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01437	73.3	30 - 140	Y

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03RE1	File ID:	009F0901.D
Sampled:	11/08/12 13:51	Prepared:	11/12/12 14:00	Analyzed:	11/21/12 20:49
Solids:		Preparation:	EXT_3510	Dilution:	400

Batch: 2K12008 Sequence: 2K33210 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**188**	39.2	78.4	157	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.000		30 - 140	DU

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32408-CCV1) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/16/12 03:37		
o-Terphenyl	50.00	82.5	80 - 120	11.443	11.443	0.0000	+/-0.100	
Calibration Check (2K32408-CCV2) mg/L				Lab File ID: 022F2201.D		Analyzed: 11/16/12 08:03		
o-Terphenyl	50.00	94.2	80 - 120	11.453	11.443	0.0100	+/-0.100	
Blank (2K08016-BLK1) mg/L				Lab File ID: 023F2301.D		Analyzed: 11/16/12 08:36		
o-Terphenyl	0.02000	86.9	30 - 140	11.466	11.443	0.0230	+/-0.100	
LCS (2K08016-BS1) mg/L				Lab File ID: 024F2401.D		Analyzed: 11/16/12 09:09		
o-Terphenyl	0.02000	83.1	30 - 140	11.463	11.443	0.0200	+/-0.100	
GW0773 (1211066-05) mg/L				Lab File ID: 025F2501.D		Analyzed: 11/16/12 09:42		
o-Terphenyl	0.02000	73.0	30 - 140	11.46	11.443	0.0170	+/-0.100	
Matrix Spike (2K08016-MS1) mg/L				Lab File ID: 026F2601.D		Analyzed: 11/16/12 10:16		
o-Terphenyl	0.02000	66.7	30 - 140	11.456	11.443	0.0130	+/-0.100	
Matrix Spike Dup (2K08016-MSD1) mg/L				Lab File ID: 027F2701.D		Analyzed: 11/16/12 10:49		
o-Terphenyl	0.02000	71.0	30 - 140	11.463	11.443	0.0200	+/-0.100	
GW0829 (1211066-07) mg/L				Lab File ID: 028F2801.D		Analyzed: 11/16/12 11:22		
o-Terphenyl	0.01961	73.3	30 - 140	11.473	11.443	0.0300	+/-0.100	
GW0858 (1211066-09) mg/L				Lab File ID: 029F2901.D		Analyzed: 11/16/12 11:56		
o-Terphenyl	0.01961	88.1	30 - 140	11.463	11.443	0.0200	+/-0.100	
GW0859 (1211066-11) mg/L				Lab File ID: 030F3001.D		Analyzed: 11/16/12 12:29		
o-Terphenyl	0.02000	69.4	30 - 140	11.493	11.443	0.0500	+/-0.100	
GW0772 (1211074-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 11/16/12 13:03		
o-Terphenyl	0.02000	100	30 - 140	11.46	11.443	0.0170	+/-0.100	
Calibration Check (2K32408-CCV3) mg/L				Lab File ID: 033F3301.D		Analyzed: 11/16/12 14:10		
o-Terphenyl	50.00	95.3	80 - 120	11.456	11.443	0.0130	+/-0.100	
GW0828 (1211074-03) mg/L				Lab File ID: 034F3401.D		Analyzed: 11/16/12 14:44		
o-Terphenyl	0.02000	77.1	30 - 140	11.47	11.443	0.0270	+/-0.100	
GW0830 (1211074-05) mg/L				Lab File ID: 035F3501.D		Analyzed: 11/16/12 15:17		
o-Terphenyl	0.02000	90.7	30 - 140	11.466	11.443	0.0230	+/-0.100	
Calibration Check (2K32408-CCV4) mg/L				Lab File ID: 038F3801.D		Analyzed: 11/16/12 16:56		
o-Terphenyl	50.00	97.5	80 - 120	11.456	11.443	0.0130	+/-0.100	
Calibration Check (2K32408-CCV5) mg/L				Lab File ID: 055F5501.D		Analyzed: 11/17/12 02:17		
o-Terphenyl	50.00	74.4	80 - 120	11.443	11.443	0.0000	+/-0.100	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Blank (2K12008-BLK1) mg/L				Lab File ID: 057F5701.D		Analyzed: 11/17/12 03:23		
o-Terphenyl	0.02000	51.5	30 - 140	11.446	11.443	0.0030	+/-0.100	
LCS (2K12008-BS1) mg/L				Lab File ID: 059F5901.D		Analyzed: 11/17/12 04:30		
o-Terphenyl	0.02000	73.2	30 - 140	11.446	11.443	0.0030	+/-0.100	
GW0757 (1211091-01) mg/L				Lab File ID: 061F6101.D		Analyzed: 11/17/12 05:36		
o-Terphenyl	0.01961	73.3	30 - 140	11.446	11.443	0.0030	+/-0.100	
Calibration Check (2K32408-CCV6) mg/L				Lab File ID: 066F6601.D		Analyzed: 11/18/12 09:00		
o-Terphenyl	50.00	91.7	80 - 120	11.5	11.443	0.0570	+/-0.100	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33210	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K33210-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 11/21/12 17:30		
o-Terphenyl	50.00	93.8	80 - 120	11.45	11.45	0.0000	+/-0.100	
GW0761 (1211066-01RE1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/21/12 18:36		
o-Terphenyl	0.01852	199	30 - 140	11.43	11.45	-0.0200	+/-0.100	*
GW0765 (1211066-03RE1) mg/L				Lab File ID: 006F0601.D		Analyzed: 11/21/12 19:09		
o-Terphenyl	0.01887	785	30 - 140	11.426	11.45	-0.0240	+/-0.100	*
GW0831 (1211091-03RE1) mg/L				Lab File ID: 009F0901.D		Analyzed: 11/21/12 20:49		
o-Terphenyl	0.01961		30 - 140		11.45	-11.4500	+/-0.100	*
Calibration Check (2K33210-CCV2) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/21/12 23:34		
o-Terphenyl	50.00	90.7	80 - 120	11.413	11.45	-0.0370	+/-0.100	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08016	Laboratory ID:	2K08016-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	0.6844	68.4	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K12008	Laboratory ID:	2K12008-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	0.6596	66.0	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08016

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	ND	0.5883	58.8		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6635	66.4	12.0		30	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K08016 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01RE1	11/08/12 13:00	1,080.00	1.00
GW0765	1211066-03RE1	11/08/12 13:00	1,060.00	1.00
GW0773	1211066-05	11/08/12 13:00	1,000.00	1.00
GW0829	1211066-07	11/08/12 13:00	1,020.00	1.00
GW0858	1211066-09	11/08/12 13:00	1,020.00	1.00
GW0859	1211066-11	11/08/12 13:00	1,000.00	1.00
GW0772	1211074-01	11/08/12 13:00	1,000.00	1.00
GW0828	1211074-03	11/08/12 13:00	1,000.00	1.00
GW0830	1211074-05	11/08/12 13:00	1,000.00	1.00
Blank	2K08016-BLK1	11/08/12 13:00	1,000.00	1.00
LCS	2K08016-BS1	11/08/12 13:00	1,000.00	1.00
GW0773	2K08016-MS1	11/08/12 13:00	1,000.00	1.00
GW0773	2K08016-MSD1	11/08/12 13:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K12008 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/12/12 14:00	1,020.00	1.00
GW0831	1211091-03RE1	11/12/12 14:00	1,020.00	1.00
Blank	2K12008-BLK1	11/12/12 14:00	1,000.00	1.00
LCS	2K12008-BS1	11/12/12 14:00	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08016-BLK1	File ID:	023F2301.D
Sampled:		Prepared:		Analyzed:	11/16/12 08:36
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K08016	Sequence:	2K32408	Calibration:	2320005	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	0.01737	86.9	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08016-BS1	File ID:	024F2401.D
Sampled:		Prepared:		Analyzed:	11/16/12 09:09
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K08016	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6844**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01661	83.1	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08016-MS1	File ID:	026F2601.D
Sampled:		Prepared:		Analyzed:	11/16/12 10:16
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K08016	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.5883**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01335	66.7	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K08016-MSD1	File ID:	027F2701.D
Sampled:		Prepared:		Analyzed:	11/16/12 10:49
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6635**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01421	71.0	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K12008-BLK1	File ID:	057F5701.D
Sampled:		Prepared:		Analyzed:	11/17/12 03:23
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K12008	Sequence:	2K32408	Calibration:	2320005	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	0.01029	51.5	30 - 140	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K12008-BS1	File ID:	059F5901.D
Sampled:		Prepared:		Analyzed:	11/17/12 04:30
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K12008	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6596**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01465	73.2	30 - 140	Y

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32018	Instrument:	GL-GCFID2
Calibration:	2320005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0092	DRO/OTP Cal6 (100/5ppm)	2K32018-CAL6	010F1001.D	11/15/12 02:14
12J0091	DRO/OTP Cal5 (250/12.5ppm)	2K32018-CAL5	011F1101.D	11/15/12 02:47
12J0090	DRO/OTP Cal4 (500/25ppm)	2K32018-CAL4	012F1201.D	11/15/12 03:20
12J0089	DRO/OTP Cal3 (1000/50ppm)	2K32018-CAL3	013F1301.D	11/15/12 03:53
12J0088	DRO/OTP Cal2 (2500/125ppm)	2K32018-CAL2	014F1401.D	11/15/12 04:26
12J0087	DRO/OTP Cal1 (5000/250ppm)	2K32018-CAL1	015F1501.D	11/15/12 04:59

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32018	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32018-CAL6	010F1001.D	11/15/12 02:14
Cal Standard	2K32018-CAL5	011F1101.D	11/15/12 02:47
Cal Standard	2K32018-CAL4	012F1201.D	11/15/12 03:20
Cal Standard	2K32018-CAL3	013F1301.D	11/15/12 03:53
Cal Standard	2K32018-CAL2	014F1401.D	11/15/12 04:26
Cal Standard	2K32018-CAL1	015F1501.D	11/15/12 04:59
Initial Cal Check	2K32018-ICV1	016F1601.D	11/15/12 05:32

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32408-CCV1	014F1401.D	11/16/12 03:37
Calibration Check	2K32408-CCV2	022F2201.D	11/16/12 08:03
Blank	2K08016-BLK1	023F2301.D	11/16/12 08:36
LCS	2K08016-BS1	024F2401.D	11/16/12 09:09
GW0773	1211066-05	025F2501.D	11/16/12 09:42
GW0773	2K08016-MS1	026F2601.D	11/16/12 10:16
GW0773	2K08016-MSD1	027F2701.D	11/16/12 10:49
GW0829	1211066-07	028F2801.D	11/16/12 11:22
GW0858	1211066-09	029F2901.D	11/16/12 11:56
GW0859	1211066-11	030F3001.D	11/16/12 12:29
GW0772	1211074-01	031F3101.D	11/16/12 13:03
Calibration Check	2K32408-CCV3	033F3301.D	11/16/12 14:10
GW0828	1211074-03	034F3401.D	11/16/12 14:44
GW0830	1211074-05	035F3501.D	11/16/12 15:17
Calibration Check	2K32408-CCV4	038F3801.D	11/16/12 16:56
Calibration Check	2K32408-CCV5	055F5501.D	11/17/12 02:17
Blank	2K12008-BLK1	057F5701.D	11/17/12 03:23
LCS	2K12008-BS1	059F5901.D	11/17/12 04:30
GW0757	1211091-01	061F6101.D	11/17/12 05:36
Calibration Check	2K32408-CCV6	066F6601.D	11/18/12 09:00

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33210	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K33210-CCV1	003F0301.D	11/21/12 17:30
GW0761	1211066-01RE1	005F0501.D	11/21/12 18:36
GW0765	1211066-03RE1	006F0601.D	11/21/12 19:09
GW0831	1211091-03RE1	009F0901.D	11/21/12 20:49
Calibration Check	2K33210-CCV2	014F1401.D	11/21/12 23:34

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2320005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/15/12 2:14	11/15/12 4:59

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	476.824	2500	448.1404	1000	538.35	500	274.594	250	340.924	100	614.25
o-Terphenyl	250	540.764	125	556.872	50	720.8	25	438.2	12.5	561.6	5	856

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2320005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/15/12 2:14	11/15/12 4:59

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	448.8471	27.85601	6.44	2.123135E-02	0.9957564		0.995	
o-Terphenyl	612.3727	24.46579	11.455	0.1110084		0.9960525	0.99	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	016F1601.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32018	Injection Date:	11/15/12
Lab Sample ID:	2K32018-ICV1	Injection Time:	05:32

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	822.7	448.8471	367.651		-17.7	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	014F1401.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV1	Injection Time:	03:37

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	810.6	448.8471	361.849		-18.9	20
o-Terphenyl	Q	50.00	41.26	612.3727	503.32		-17.5	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	022F2201.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV2	Injection Time:	08:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	875.2	448.8471	392.875		-12.5	20
o-Terphenyl	Q	50.00	47.12	612.3727	573.72		-5.8	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	033F3301.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV3	Injection Time:	14:10

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	954.9	448.8471	431.173		-4.5	20
o-Terphenyl	Q	50.00	47.66	612.3727	580.22		-4.7	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	038F3801.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV4	Injection Time:	16:56

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	959.2	448.8471	433.252		-4.1	20
o-Terphenyl	Q	50.00	48.73	612.3727	592.98		-2.5	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	055F5501.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/17/12
Lab Sample ID:	2K32408-CCV5	Injection Time:	02:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	813.4	448.8471	363.172		-18.7	20
o-Terphenyl	Q	50.00	37.22	612.3727	454.46		-25.6	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	066F6601.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/18/12
Lab Sample ID:	2K32408-CCV6	Injection Time:	09:00

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1067	448.8471	485.241		6.7	20
o-Terphenyl	Q	50.00	45.84	612.3727	558.44		-8.3	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	003F0301.D	Calibration Date:	11/15/12 02:14
Sequence:	2K33210	Injection Date:	11/21/12
Lab Sample ID:	2K33210-CCV1	Injection Time:	17:30

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1040	448.8471	472.252		4.0	20
o-Terphenyl	Q	50.00	46.88	612.3727	570.9		-6.2	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	014F1401.D	Calibration Date:	11/15/12 02:14
Sequence:	2K33210	Injection Date:	11/21/12
Lab Sample ID:	2K33210-CCV2	Injection Time:	23:34

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1121	448.8471	511.196		12.1	20
o-Terphenyl	Q	50.00	45.34	612.3727	552.44		-9.3	20

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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
GW0761	11/05/12 10:14	11/07/12 08:35	11/08/12 13:00	3.07	7.00	11/21/12 18:36	13.23	40.00	
GW0765	11/05/12 13:13	11/07/12 08:35	11/08/12 13:00	2.95	7.00	11/21/12 19:09	13.26	40.00	
GW0773	11/06/12 12:02	11/07/12 08:35	11/08/12 13:00	2.00	7.00	11/16/12 09:42	7.86	40.00	
GW0829	11/06/12 15:57	11/07/12 08:35	11/08/12 13:00	1.84	7.00	11/16/12 11:22	7.93	40.00	
GW0858	11/05/12 13:00	11/07/12 08:35	11/08/12 13:00	2.96	7.00	11/16/12 11:56	7.96	40.00	
GW0859	11/05/12 10:44	11/07/12 08:35	11/08/12 13:00	3.05	7.00	11/16/12 12:29	7.98	40.00	
GW0772	11/07/12 10:39	11/08/12 08:35	11/08/12 13:00	1.06	7.00	11/16/12 13:03	8.00	40.00	
GW0828	11/07/12 12:59	11/08/12 08:35	11/08/12 13:00	0.96	7.00	11/16/12 14:44	8.07	40.00	
GW0830	11/07/12 15:17	11/08/12 08:35	11/08/12 13:00	0.86	7.00	11/16/12 15:17	8.10	40.00	
GW0757	11/08/12 10:37	11/09/12 08:30	11/12/12 14:00	4.10	7.00	11/17/12 05:36	4.65	40.00	
GW0831	11/08/12 13:51	11/09/12 08:30	11/12/12 14:00	3.96	7.00	11/21/12 20:49	9.28	40.00	

PREPARATION BENCH SHEET

2K08016

Empirical Laboratories, LLC

Printed: 11/19/2012 2:04:23PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12J0879**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-01	N	SGC_DRO_8015B_3510	11/08/2012	1080	1				1000	NA	
1211066-03	O	SGC_DRO_8015B_3510	11/08/2012	1060	1				1000	NA	
1211066-05	AN	SGC_DRO_8015B_3510	11/08/2012	1000	1				1000	NA	MS/MSD
1211066-07	P	SGC_DRO_8015B_3510	11/08/2012	1020	1				1000	NA	
1211066-09	N	SGC_DRO_8015B_3510	11/08/2012	1020	1				1000	NA	
1211066-11	O	SGC_DRO_8015B_3510	11/08/2012	1000	1				1000	NA	
1211074-01	N	SGC_DRO_8015B_3510	11/08/2012	1000	1				1000	NA	
1211074-03	N	SGC_DRO_8015B_3510	11/08/2012	1000	1				1000	NA	
1211074-05	N	SGC_DRO_8015B_3510	11/08/2012	1000	1				1000	NA	
1211075-02	N	SGC_DRO_8015B_3510	11/08/2012	1020	1				1000	NA	
2K08016-BLK1		QC	11/08/2012	1000	1				1000	NA	
2K08016-BS1		QC	11/08/2012	1000	1	12J0832		1000	1000	NA	
2K08016-MS1		QC	11/08/2012	1000	1	12J0832	1211066-05	1000	1000	NA	
2K08016-MSD1		QC	11/08/2012	1000	1	12J0832	1211066-05	1000	1000	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride

PREPARATION BENCH SHEET

2K12008

Empirical Laboratories, LLC

Printed: 12/2/2012 10:20:19AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12J0879**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211091-01	N	SGC_DRO_8015B_3510	11/12/2012	1020	1				1000	NA	
1211091-03	P	SGC_DRO_8015B_3510	11/12/2012	1020	1				1000	NA	
1211091-03RE1	P	SGC_DRO_8015B_3510	11/12/2012	1020	1				1000	NA	Added 11/23/2012 by PRC
1211092-01	V	SGC_DRO_8015B_3510	11/12/2012	1000	1				1000	NA	Added for BatchQC in: 2K12008
1211092-01	V	SGC_DRO_8015C_3510	11/12/2012	1000	1				1000	NA	MS/MSD.SilicaGelCleaunupRequired/dmg did the silica gel
1211092-02	H	SGC_DRO_8015C_3510	11/12/2012	1060	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
1211098-03	H	SGC_DRO_8015C_3510	11/12/2012	1020	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
1211098-05	H	SGC_DRO_8015C_3510	11/12/2012	1020	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
1211098-06	H	SGC_DRO_8015C_3510	11/12/2012	1000	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
1211098-07	G	SGC_DRO_8015C_3510	11/12/2012	1000	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
1211098-08	G	SGC_DRO_8015C_3510	11/12/2012	1060	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
1211098-09	G	SGC_DRO_8015C_3510	11/12/2012	1020	1				1000	NA	SilicaGelCleaunupRequired/ dmg did the silica gel
2K12008-BLK1		QC	11/12/2012	1000	1				1000	NA	
2K12008-BLK2		QC	11/12/2012	1000	1				1000	NA	Sample was washed in silica gel and split.
2K12008-BS1		QC	11/12/2012	1000	1	12J0832		1000	1000	NA	QC extracts split 0.5mLs each for dmg to silica treat half.
2K12008-BS2		QC	11/12/2012	1000	1	12J0832		1000	1000	NA	Sample was washed in silica gel and split
2K12008-MS1		QC	11/12/2012	1040	1	12J0832	1211092-01	1000	1000	NA	QC extracts split 0.5mLs each for dmg to silica treat half.
2K12008-MSD1		QC	11/12/2012	1000	1	12J0832	1211092-01	1000	1000	NA	QC extracts split 0.5mLs each for dmg to silica treat half.

PREPARATION BENCH SHEET

2K12008

Empirical Laboratories, LLC

Printed: 12/2/2012 10:20:19AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12J0879**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12C0247	Silica Gel for FLPRO
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride

SW8015B (GRO)
Forms

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-05 [GW0773]	2K15027	5.00/5.00	5.00	5.00	1.00			11/15/12
1211066-07 [GW0829]	2K15027	5.00/5.00	5.00	5.00	1.00			11/16/12
1211066-09 [GW0858]	2K15027	5.00/5.00	5.00	5.00	1.00			11/16/12
1211066-11 [GW0859]	2K15027	5.00/5.00	5.00	5.00	1.00			11/16/12

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01RE1 [GW0761]	2K15028	5.00/5.00	5.00	5.00	20.00			11/19/12
1211066-03RE1 [GW0765]	2K15028	5.00/5.00	5.00	5.00	20.00			11/19/12
1211074-01 [GW0772]	2K15028	5.00/5.00	5.00	5.00	1.00			11/19/12
1211074-03 [GW0828]	2K15028	5.00/5.00	5.00	5.00	1.00			11/19/12
1211074-05 [GW0830]	2K15028	5.00/5.00	5.00	5.00	1.00			11/19/12
1211091-01 [GW0757]	2K15028	5.00/5.00	5.00	5.00	1.00			11/19/12
1211091-03 [GW0831]	2K15028	5.00/5.00	5.00	5.00	20.00			11/20/12

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01RE1	File ID:	004F0401.D
Sampled:	11/05/12 10:14	Prepared:	11/19/12 14:53	Analyzed:	11/19/12 14:53
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**62.9**	1.00	2.00	3.00	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06282	126	50 - 150	X

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03RE1	File ID:	005F0501.D
Sampled:	11/05/12 13:13	Prepared:	11/19/12 15:31	Analyzed:	11/19/12 15:31
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**72.1**	1.00	2.00	3.00	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06714	134	50 - 150	X

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05	File ID:	011F1101.D
Sampled:	11/06/12 12:02	Prepared:	11/15/12 22:54	Analyzed:	11/15/12 22:54
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15027 Sequence: 2K32414 Calibration: 2323001 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07624	152	50 - 150	*X

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07	File ID:	014F1401.D
Sampled:	11/06/12 15:57	Prepared:	11/16/12 00:49	Analyzed:	11/16/12 00:49
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15027 Sequence: 2K32414 Calibration: 2323001 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07514	150	50 - 150	X

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09	File ID:	015F1501.D
Sampled:	11/05/12 13:00	Prepared:	11/16/12 01:27	Analyzed:	11/16/12 01:27
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15027 Sequence: 2K32414 Calibration: 2323001 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06999	140	50 - 150	X

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11	File ID:	016F1601.D
Sampled:	11/05/12 10:44	Prepared:	11/16/12 02:05	Analyzed:	11/16/12 02:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15027 Sequence: 2K32414 Calibration: 2323001 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07692	154	50 - 150	*X

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01	File ID:	014F1401.D
Sampled:	11/07/12 10:39	Prepared:	11/19/12 21:15	Analyzed:	11/19/12 21:15
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.245**	0.0500	0.100	0.150	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07164	143	50 - 150	X

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03	File ID:	015F1501.D
Sampled:	11/07/12 12:59	Prepared:	11/19/12 21:53	Analyzed:	11/19/12 21:53
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.469**	0.0500	0.100	0.150	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06800	136	50 - 150	X

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05	File ID:	016F1601.D
Sampled:	11/07/12 15:17	Prepared:	11/19/12 22:31	Analyzed:	11/19/12 22:31
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07369	147	50 - 150	X

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01	File ID:	017F1701.D
Sampled:	11/08/12 10:37	Prepared:	11/19/12 23:10	Analyzed:	11/19/12 23:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**1.25**	0.0500	0.100	0.150	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06724	134	50 - 150	X

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03	File ID:	029F2901.D
Sampled:	11/08/12 13:51	Prepared:	11/20/12 10:08	Analyzed:	11/20/12 10:08
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**60.7**	1.00	2.00	3.00	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06150	123	50 - 150	X

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32414	Instrument:	GL-GCVOA2
		Calibration:	2323001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32414-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/15/12 17:50		
Bromofluorobenzene	0.05000	123	80 - 120	20.306	20.306	0.0000	+/-0.210	*
Blank (2K15027-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/15/12 18:29		
Bromofluorobenzene	0.05000	142	50 - 150	20.306	20.306	0.0000	+/-0.210	
LCS (2K15027-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/15/12 19:07		
Bromofluorobenzene	0.05000	121	50 - 150	20.313	20.306	0.0070	+/-0.210	
LCS Dup (2K15027-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 11/15/12 19:44		
Bromofluorobenzene	0.05000	124	50 - 150	20.316	20.306	0.0100	+/-0.210	
Calibration Check (2K32414-CCV2) ug/mL				Lab File ID: 010F1001.D		Analyzed: 11/15/12 22:16		
Bromofluorobenzene	0.05000	131	80 - 120	20.323	20.306	0.0170	+/-0.210	*
GW0773 (1211066-05) mg/L				Lab File ID: 011F1101.D		Analyzed: 11/15/12 22:54		
Bromofluorobenzene	0.05000	152	50 - 150	20.316	20.306	0.0100	+/-0.210	*
Matrix Spike (2K15027-MS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 11/15/12 23:32		
Bromofluorobenzene	0.05000	127	50 - 150	20.316	20.306	0.0100	+/-0.210	
Matrix Spike Dup (2K15027-MSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 11/16/12 00:10		
Bromofluorobenzene	0.05000	137	50 - 150	20.313	20.306	0.0070	+/-0.210	
GW0829 (1211066-07) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/16/12 00:49		
Bromofluorobenzene	0.05000	150	50 - 150	20.313	20.306	0.0070	+/-0.210	
GW0858 (1211066-09) mg/L				Lab File ID: 015F1501.D		Analyzed: 11/16/12 01:27		
Bromofluorobenzene	0.05000	140	50 - 150	20.313	20.306	0.0070	+/-0.210	
GW0859 (1211066-11) mg/L				Lab File ID: 016F1601.D		Analyzed: 11/16/12 02:05		
Bromofluorobenzene	0.05000	154	50 - 150	20.313	20.306	0.0070	+/-0.210	*
Calibration Check (2K32414-CCV3) ug/mL				Lab File ID: 030F3001.D		Analyzed: 11/16/12 11:01		
Bromofluorobenzene	0.05000	117	80 - 120	20.316	20.306	0.0100	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33114	Instrument:	GL-GCVOA2
		Calibration:	2323001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K33114-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/19/12 14:14		
Bromofluorobenzene	0.05000	134	80 - 120	20.293	20.293	0.0000	+/-0.210	*
GW0761 (1211066-01RE1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/19/12 14:53		
Bromofluorobenzene	0.05000	126	50 - 150	20.303	20.293	0.0100	+/-0.210	
GW0765 (1211066-03RE1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/19/12 15:31		
Bromofluorobenzene	0.05000	134	50 - 150	20.303	20.293	0.0100	+/-0.210	
Blank (2K15028-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 11/19/12 17:26		
Bromofluorobenzene	0.05000	157	50 - 150	20.313	20.293	0.0200	+/-0.210	*
LCS (2K15028-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 11/19/12 18:04		
Bromofluorobenzene	0.05000	128	50 - 150	20.313	20.293	0.0200	+/-0.210	
LCS Dup (2K15028-BSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 11/19/12 18:42		
Bromofluorobenzene	0.05000	121	50 - 150	20.316	20.293	0.0230	+/-0.210	
GW0772 (1211074-01) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/19/12 21:15		
Bromofluorobenzene	0.05000	143	50 - 150	20.316	20.293	0.0230	+/-0.210	
GW0828 (1211074-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 11/19/12 21:53		
Bromofluorobenzene	0.05000	136	50 - 150	20.313	20.293	0.0200	+/-0.210	
GW0830 (1211074-05) mg/L				Lab File ID: 016F1601.D		Analyzed: 11/19/12 22:31		
Bromofluorobenzene	0.05000	147	50 - 150	20.323	20.293	0.0300	+/-0.210	
GW0757 (1211091-01) mg/L				Lab File ID: 017F1701.D		Analyzed: 11/19/12 23:10		
Bromofluorobenzene	0.05000	134	50 - 150	20.33	20.293	0.0370	+/-0.210	
Calibration Check (2K33114-CCV2) ug/mL				Lab File ID: 019F1901.D		Analyzed: 11/20/12 00:25		
Bromofluorobenzene	0.05000	140	80 - 120	20.326	20.293	0.0330	+/-0.210	*
GW0831 (1211091-03) mg/L				Lab File ID: 029F2901.D		Analyzed: 11/20/12 10:08		
Bromofluorobenzene	0.05000	123	50 - 150	20.303	20.293	0.0100	+/-0.210	
Calibration Check (2K33114-CCV3) ug/mL				Lab File ID: 033F3301.D		Analyzed: 11/20/12 12:42		
Bromofluorobenzene	0.05000	118	80 - 120	20.31	20.293	0.0170	+/-0.210	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15027	Laboratory ID:	2K15027-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	0.5617	112	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5719	114	1.80	30	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15028	Laboratory ID:	2K15028-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	0.5724	114	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5535	111	3.36	30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K15027

% Solids:

Source Sample Name: **1211066-05**

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	0.4705	94.1		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	0.5587	112	17.1		30	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K15027 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0773	1211066-05	11/15/12 22:54	5.00	5.00
GW0829	1211066-07	11/16/12 00:49	5.00	5.00
GW0858	1211066-09	11/16/12 01:27	5.00	5.00
GW0859	1211066-11	11/16/12 02:05	5.00	5.00
Blank	2K15027-BLK1	11/15/12 18:29	5.00	5.00
LCS	2K15027-BS1	11/15/12 19:07	5.00	5.00
LCS Dup	2K15027-BSD1	11/15/12 19:44	5.00	5.00
GW0773	2K15027-MS1	11/15/12 23:32	5.00	5.00
GW0773	2K15027-MSD1	11/16/12 00:10	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K15028 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01RE1	11/19/12 14:53	5.00	5.00
GW0765	1211066-03RE1	11/19/12 15:31	5.00	5.00
GW0772	1211074-01	11/19/12 21:15	5.00	5.00
GW0828	1211074-03	11/19/12 21:53	5.00	5.00
GW0830	1211074-05	11/19/12 22:31	5.00	5.00
GW0757	1211091-01	11/19/12 23:10	5.00	5.00
GW0831	1211091-03	11/20/12 10:08	5.00	5.00
Blank	2K15028-BLK1	11/19/12 17:26	5.00	5.00
LCS	2K15028-BS1	11/19/12 18:04	5.00	5.00
LCS Dup	2K15028-BSD1	11/19/12 18:42	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K15027-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	11/15/12 18:29
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K15027 Sequence: 2K32414 Calibration: 2323001 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	0.07076	142	50 - 150	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K15027-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	11/15/12 19:07
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K15027	Sequence:	2K32414	Calibration:	2323001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5617**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06032	121	50 - 150	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K15027-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	11/15/12 19:44
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K15027	Sequence:	2K32414	Calibration:	2323001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5719**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06196	124	50 - 150	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_070	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K15027-MS1	File ID:	012F1201.D
Sampled:		Prepared:		Analyzed:	11/15/12 23:32
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K15027 Sequence: 2K32414 Calibration: 2323001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4705**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06330	127	50 - 150	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K15027-MSD1
File ID: 013F1301.D
Sampled:
Prepared:
Analyzed: 11/16/12 00:10
Solids:
Preparation: 8015GRO
Dilution:
Batch: 2K15027
Sequence: 2K32414
Calibration: 2323001
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5587**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06863	137	50 - 150	X

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_070
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K15028-BLK1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	11/19/12 17:26
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K15028 Sequence: 2K33114 Calibration: 2323001 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	0.07873	157	50 - 150	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K15028-BS1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	11/19/12 18:04
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K15028	Sequence:	2K33114	Calibration:	2323001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5724**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06380	128	50 - 150	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K15028-BSD1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	11/19/12 18:42
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K15028	Sequence:	2K33114	Calibration:	2323001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5535**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06057	121	50 - 150	X

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32304	Instrument:	GL-GCVOA2
Calibration:	2323001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12K0535	GRO Cal 0.1ppm	2K32304-CAL1	003F0101.D	11/14/12 12:23
12K0536	GRO Cal 0.2ppm	2K32304-CAL2	004F0201.D	11/14/12 13:01
12K0537	GRO Cal 0.5ppm	2K32304-CAL3	005F0301.D	11/14/12 13:39
12K0538	GRO Cal 1.0ppm	2K32304-CAL4	006F0401.D	11/14/12 14:16
12K0539	GRO Cal 2.0ppm	2K32304-CAL5	007F0501.D	11/14/12 14:54
12K0540	GRO Cal 5.0ppm	2K32304-CAL6	008F0601.D	11/14/12 15:32

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32304	Instrument:	GL-GCVOA2
Calibration:	2323001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32304-CAL1	003F0101.D	11/14/12 12:23
Cal Standard	2K32304-CAL2	004F0201.D	11/14/12 13:01
Cal Standard	2K32304-CAL3	005F0301.D	11/14/12 13:39
Cal Standard	2K32304-CAL4	006F0401.D	11/14/12 14:16
Cal Standard	2K32304-CAL5	007F0501.D	11/14/12 14:54
Cal Standard	2K32304-CAL6	008F0601.D	11/14/12 15:32
Initial Cal Check	2K32304-ICV1	009F0501.D	11/14/12 19:32

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32414	Instrument:	GL-GCVOA2
Calibration:	2323001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32414-CCV1	003F0301.D	11/15/12 17:50
Blank	2K15027-BLK1	004F0401.D	11/15/12 18:29
LCS	2K15027-BS1	005F0501.D	11/15/12 19:07
LCS Dup	2K15027-BSD1	006F0601.D	11/15/12 19:44
Calibration Check	2K32414-CCV2	010F1001.D	11/15/12 22:16
GW0773	1211066-05	011F1101.D	11/15/12 22:54
GW0773	2K15027-MS1	012F1201.D	11/15/12 23:32
GW0773	2K15027-MSD1	013F1301.D	11/16/12 00:10
GW0829	1211066-07	014F1401.D	11/16/12 00:49
GW0858	1211066-09	015F1501.D	11/16/12 01:27
GW0859	1211066-11	016F1601.D	11/16/12 02:05
Calibration Check	2K32414-CCV3	030F3001.D	11/16/12 11:01

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33114	Instrument:	GL-GCVOA2
Calibration:	2323001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K33114-CCV1	003F0301.D	11/19/12 14:14
GW0761	1211066-01RE1	004F0401.D	11/19/12 14:53
GW0765	1211066-03RE1	005F0501.D	11/19/12 15:31
Blank	2K15028-BLK1	008F0801.D	11/19/12 17:26
LCS	2K15028-BS1	009F0901.D	11/19/12 18:04
LCS Dup	2K15028-BSD1	010F1001.D	11/19/12 18:42
GW0772	1211074-01	014F1401.D	11/19/12 21:15
GW0828	1211074-03	015F1501.D	11/19/12 21:53
GW0830	1211074-05	016F1601.D	11/19/12 22:31
GW0757	1211091-01	017F1701.D	11/19/12 23:10
Calibration Check	2K33114-CCV2	019F1901.D	11/20/12 00:25
GW0831	1211091-03	029F2901.D	11/20/12 10:08
Calibration Check	2K33114-CCV3	033F3301.D	11/20/12 12:42

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2323001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	11/14/12 12:23	11/14/12 15:32

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	1314720	0.2	1012795	0.5	832834	1	831428	2	813135.5	5	785792.8
Bromofluorobenzene	0.01	1087700	0.02	641800	0.05	475580	0.1	394780	0.2	376345	0.5	375376

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2323001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	11/14/12 12:23	11/14/12 15:32

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	931784.2	21.91326	7.793	1.770253E-02	0.9998994		0.995	
Bromofluorobenzene	558596.8	49.82974	20.3135	9.003825E-03	0.9993063		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	009F0501.D	Calibration Date:	11/14/12 12:23
Sequence:	2K32304	Injection Date:	11/14/12
Lab Sample ID:	2K32304-ICV1	Injection Time:	19:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5632	931784.2	974078		12.6	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	003F0301.D	Calibration Date:	11/14/12 12:23
Sequence:	2K32414	Injection Date:	11/15/12
Lab Sample ID:	2K32414-CCV1	Injection Time:	17:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5940	931784.2	1021894		18.8	20
Bromofluorobenzene	L	0.05000	0.06162	558596.8	549160		23.2	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	010F1001.D	Calibration Date:	11/14/12 12:23
Sequence:	2K32414	Injection Date:	11/15/12
Lab Sample ID:	2K32414-CCV2	Injection Time:	22:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5280	931784.2	919348		5.6	20
Bromofluorobenzene	L	0.05000	0.06574	558596.8	579060		31.5	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	030F3001.D	Calibration Date:	11/14/12 12:23
Sequence:	2K32414	Injection Date:	11/16/12
Lab Sample ID:	2K32414-CCV3	Injection Time:	11:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5156	931784.2	899956		3.1	20
Bromofluorobenzene	L	0.05000	0.05868	558596.8	527820		17.4	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	003F0301.D	Calibration Date:	11/14/12 12:23
Sequence:	2K33114	Injection Date:	11/19/12
Lab Sample ID:	2K33114-CCV1	Injection Time:	14:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5935	931784.2	1021206		18.7	20
Bromofluorobenzene	L	0.05000	0.06713	558596.8	589140		34.3	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	019F1901.D	Calibration Date:	11/14/12 12:23
Sequence:	2K33114	Injection Date:	11/20/12
Lab Sample ID:	2K33114-CCV2	Injection Time:	00:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5472	931784.2	949098		9.4	20
Bromofluorobenzene	L	0.05000	0.07007	558596.8	610460		40.1	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2323001
Lab File ID:	033F3301.D	Calibration Date:	11/14/12 12:23
Sequence:	2K33114	Injection Date:	11/20/12
Lab Sample ID:	2K33114-CCV3	Injection Time:	12:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4995	931784.2	874960		-0.1	20
Bromofluorobenzene	L	0.05000	0.05917	558596.8	531360		18.3	20

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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
GW0761	11/05/12 10:14	11/07/12 08:35	11/19/12 14:53	N/A	14.00	11/19/12 14:53	14.15	14.00	
GW0765	11/05/12 13:13	11/07/12 08:35	11/19/12 15:31	N/A	14.00	11/19/12 15:31	14.05	14.00	
GW0773	11/06/12 12:02	11/07/12 08:35	11/15/12 22:54	N/A	14.00	11/15/12 22:54	9.41	14.00	
GW0829	11/06/12 15:57	11/07/12 08:35	11/16/12 00:49	N/A	14.00	11/16/12 00:49	9.33	14.00	
GW0858	11/05/12 13:00	11/07/12 08:35	11/16/12 01:27	N/A	14.00	11/16/12 01:27	10.48	14.00	
GW0859	11/05/12 10:44	11/07/12 08:35	11/16/12 02:05	N/A	14.00	11/16/12 02:05	10.60	14.00	
GW0772	11/07/12 10:39	11/08/12 08:35	11/19/12 21:15	N/A	14.00	11/19/12 21:15	12.40	14.00	
GW0828	11/07/12 12:59	11/08/12 08:35	11/19/12 21:53	N/A	14.00	11/19/12 21:53	12.33	14.00	
GW0830	11/07/12 15:17	11/08/12 08:35	11/19/12 22:31	N/A	14.00	11/19/12 22:31	12.26	14.00	
GW0757	11/08/12 10:37	11/09/12 08:30	11/19/12 23:10	N/A	14.00	11/19/12 23:10	11.48	14.00	
GW0831	11/08/12 13:51	11/09/12 08:30	11/20/12 10:08	N/A	14.00	11/20/12 10:08	11.80	14.00	

PREPARATION BENCH SHEET

2K15027

Empirical Laboratories, LLC

Printed: 11/28/2012 8:41:42AM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-01	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	
1211066-03	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	
1211066-05	J	VGC_GRO_8015B	11/15/2012	5	5				20	2	MS/MSD
1211066-07	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	
1211066-09	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	
1211066-11	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	
1211092-01	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	MS/MSD.
1211092-02	D	VGC_GRO_8015B	11/16/2012	5	5				20	2	
1211132-01	D	VGC_GRO_8015B	11/15/2012	5	5				20	2	
1211132-03	D	VGC_GRO_8015B	11/15/2012	5	5				20	2	
1211132-05	D	VGC_GRO_8015B	11/15/2012	5	5				20	2	
2K15027-BLK1		QC	11/15/2012	5	5				20	NA	
2K15027-BS1		QC	11/15/2012	5	5	12G0753		5	20	NA	
2K15027-BSD1		QC	11/15/2012	5	5	12G0753		5	20	NA	
2K15027-MS1		QC	11/15/2012	5	5	12G0753	1211066-05	5	20	NA	
2K15027-MS2		QC	11/16/2012	5	5	12G0753	1211092-01	5	20	NA	
2K15027-MSD1		QC	11/16/2012	5	5	12G0753	1211066-05	5	20	NA	
2K15027-MSD2		QC	11/16/2012	5	5	12G0753	1211092-01	5	20	NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K15028

Empirical Laboratories, LLC

Printed: 11/28/2012 8:42:50AM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211021-01	A	VGC_GRO_8015C	11/19/2012	5	5				20	2	Check results against expected concentration!
1211066-01RE1	E	VGC_GRO_8015B	11/19/2012	5	5				20	2	From 2K15027 by JST on 11/19/2012
1211066-03RE1	E	VGC_GRO_8015B	11/19/2012	5	5				20	2	From 2K15027 by JST on 11/19/2012
1211070-05	D	VGC_GRO_8015B	11/19/2012	5	5				20	2	TN-GRO; Rerun at dilution.
1211074-01	D	VGC_GRO_8015B	11/19/2012	5	5				20	2	Rerun due to carryover.
1211074-03	D	VGC_GRO_8015B	11/19/2012	5	5				20	2	
1211074-05	D	VGC_GRO_8015B	11/19/2012	5	5				20	2	
1211091-01	D	VGC_GRO_8015B	11/19/2012	5	5				20	2	
1211091-03	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
1211098-03	D	VGC_GRO_8015B	11/19/2012	5	5				20	2	
1211098-05	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
1211098-06	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
1211098-07	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
1211098-08	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
1211098-09	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	limited volume
1211133-01	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	Rerun for possible carryover.
1211146-01	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
1211146-01	D	VGC_GRO_8015C	11/19/2012	5	5				20		Added for BatchQC in: 2K15028
1211147-01	D	VGC_GRO_8015B	11/20/2012	5	5				20	2	
2K15028-BLK1		QC	11/19/2012	5	5				20	NA	
2K15028-BS1		QC	11/19/2012	5	5	12G0753		5	20	NA	
2K15028-BSD1		QC	11/19/2012	5	5	12G0753		5	20	NA	

PREPARATION BENCH SHEET

2K15028

Empirical Laboratories, LLC

Printed: 11/28/2012 8:42:50AM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K15028-MS1		QC	11/20/2012	5	5	12G0753	1211146-01	5	20	NA	
2K15028-MSD1		QC	11/20/2012	5	5	12G0753	1211146-01	5	20	NA	

Reagents Used:

Standard	Description

Data for SW6010B Forms

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-02 [GW0761]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211066-04 [GW0765]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211066-06 [GW0773]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211066-08 [GW0829]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211066-10 [GW0858]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211066-12 [GW0859]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211074-02 [GW0772]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211074-04 [GW0828]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211074-06 [GW0830]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211091-02 [GW0757]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12
1211091-04 [GW0831]	2K14027	50.00/50.00	50.0	50.0	1.00			11/14/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211066-03 [GW0765]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211066-05 [GW0773]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211066-07 [GW0829]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211066-09 [GW0858]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211066-11 [GW0859]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211074-01 [GW0772]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211074-03 [GW0828]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12
1211074-05 [GW0830]	2K19016	50.00/50.00	50.0	50.0	1.00			11/19/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K19017	50.00/50.00	50.0	50.0	1.00			11/19/12
1211091-03 [GW0831]	2K19017	50.00/50.00	50.0	50.0	1.00			11/19/12

ANALYSIS DATA SHEET

GW0761

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/05/12 10:14
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211066-01
Received: 11/07/12 08:35

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**169000**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 16:22
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 16:22
7439-95-4	Magnesium	**27400**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:22
7440-09-7	Potassium	**4450**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 16:22
7440-23-5	Sodium	**46300**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:22

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-02
Sampled:	11/05/12 10:14	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**7330**	30.0	60.0	100	1		SW6010B	2K14027	11/14/12 13:58
7439-96-5	Manganese (dissolved)	**6230**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 13:58

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03
Sampled:	11/05/12 13:13	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**72500**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 16:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 16:26
7439-95-4	Magnesium	**10400**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:26
7440-09-7	Potassium	**2790**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 16:26
7440-23-5	Sodium	**30900**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:26

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-04
Sampled:	11/05/12 13:13	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**263**	30.0	60.0	100	1		SW6010B	2K14027	11/14/12 14:03
7439-96-5	Manganese (dissolved)	**1070**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 14:03

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-05
Sampled:	11/06/12 12:02	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**63300**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 16:31
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 16:31
7439-95-4	Magnesium	**8800**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:31
7440-09-7	Potassium	**2940**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 16:31
7440-23-5	Sodium	**29500**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:31

ANALYSIS DATA SHEET

GW0773

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-06
Sampled:	11/06/12 12:02	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**35.3**	30.0	60.0	100	1	J	SW6010B	2K14027	11/14/12 14:07
7439-96-5	Manganese (dissolved)	**61.8**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 14:07

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-07
Sampled:	11/06/12 15:57	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**33400**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 17:08
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 17:08
7439-95-4	Magnesium	**4550**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:08
7440-09-7	Potassium	**2000**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:08
7440-23-5	Sodium	**21900**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:08

ANALYSIS DATA SHEET

GW0829

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-08
Sampled:	11/06/12 15:57	Received:	11/07/12 08:35
% 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	2K14027	11/14/12 14:26
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K14027	11/14/12 14:26

ANALYSIS DATA SHEET

GW0858

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/05/12 13:00
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211066-09
Received: 11/07/12 08:35

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**68500**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 17:12
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 17:12
7439-95-4	Magnesium	**9920**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:12
7440-09-7	Potassium	**2960**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:12
7440-23-5	Sodium	**29900**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:12

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-10
Sampled:	11/05/12 13:00	Received:	11/07/12 08:35
% 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	2K14027	11/14/12 14:30
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K14027	11/14/12 14:30

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-11
Sampled:	11/05/12 10:44	Received:	11/07/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**51000**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 17:17
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 17:17
7439-95-4	Magnesium	**7480**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:17
7440-09-7	Potassium	**2660**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:17
7440-23-5	Sodium	**24300**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:17

ANALYSIS DATA SHEET

GW0859

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-12
Sampled:	11/05/12 10:44	Received:	11/07/12 08:35
% 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	2K14027	11/14/12 14:34
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K14027	11/14/12 14:34

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01
Sampled:	11/07/12 10:39	Received:	11/08/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**82800**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 17:39
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 17:39
7439-95-4	Magnesium	**11900**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:39
7440-09-7	Potassium	**3070**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:39
7440-23-5	Sodium	**32200**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:39

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-02
Sampled:	11/07/12 10:39	Received:	11/08/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**54.8**	30.0	60.0	100	1	J	SW6010B	2K14027	11/14/12 14:39
7439-96-5	Manganese (dissolved)	**15.4**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 14:39

ANALYSIS DATA SHEET

GW0828

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/07/12 12:59
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211074-03
Received: 11/08/12 08:35

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**65500**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 17:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 17:44
7439-95-4	Magnesium	**9040**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:44
7440-09-7	Potassium	**3030**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:44
7440-23-5	Sodium	**29400**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:44

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-04
Sampled:	11/07/12 12:59	Received:	11/08/12 08:35
% 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	2K14027	11/14/12 14:43
7439-96-5	Manganese (dissolved)	**4.49**	3.00	6.00	15.0	1	J	SW6010B	2K14027	11/14/12 14:43

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05
Sampled:	11/07/12 15:17	Received:	11/08/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**51000**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 17:48
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 17:48
7439-95-4	Magnesium	**7160**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:48
7440-09-7	Potassium	**2640**	1000	3000	5000	1	J	SW6010B	2K19016	11/26/12 17:48
7440-23-5	Sodium	**25100**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 17:48

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-06
Sampled:	11/07/12 15:17	Received:	11/08/12 08:35
% 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	2K14027	11/14/12 14:48
7439-96-5	Manganese (dissolved)	**18.4**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 14:48

ANALYSIS DATA SHEET

GW0757

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/08/12 10:37
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211091-01
Received: 11/09/12 08:30

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	2K19017	11/30/12 13:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19017	11/30/12 13:32
7439-95-4	Magnesium	**6330**	1000	3000	5000	1		SW6010B	2K19017	11/30/12 13:32
7440-09-7	Potassium	**2250**	1000	3000	5000	1	J	SW6010B	2K19017	11/30/12 13:32
7440-23-5	Sodium	**26000**	1000	3000	5000	1		SW6010B	2K19017	11/30/12 13:32

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-02
Sampled:	11/08/12 10:37	Received:	11/09/12 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)	**91.2**	30.0	60.0	100	1	J	SW6010B	2K14027	11/14/12 15:05
7439-96-5	Manganese (dissolved)	**271**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 15:05

ANALYSIS DATA SHEET

GW0831

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/08/12 13:51
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211091-03
Received: 11/09/12 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**118000**	1000	2000	5000	1		SW6010B	2K19017	11/30/12 13:37
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K19017	11/30/12 13:37
7439-95-4	Magnesium	**18900**	1000	3000	5000	1		SW6010B	2K19017	11/30/12 13:37
7440-09-7	Potassium	**3570**	1000	3000	5000	1	J	SW6010B	2K19017	11/30/12 13:37
7440-23-5	Sodium	**44500**	1000	3000	5000	1		SW6010B	2K19017	11/30/12 13:37

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-04
Sampled:	11/08/12 13:51	Received:	11/09/12 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)	**2000**	30.0	60.0	100	1		SW6010B	2K14027	11/14/12 15:09
7439-96-5	Manganese (dissolved)	**2520**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 15:09

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K14027-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**31.4**	30.0	60.0	100	1	J	SW6010B	2K14027	11/14/12 13:47
7439-96-5	Manganese (dissolved)	ND	3.00	6.00	15.0	1	U	SW6010B	2K14027	11/14/12 13:47

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K14027-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1094**	30.0	60.0	100	1		SW6010B	2K14027	11/14/12 13:52
7439-96-5	Manganese (dissolved)	**513.2**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 13:52

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K14027-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	150	300	500	5	U	SW6010B	2K14027	11/14/12 14:21
7439-96-5	Manganese (dissolved)	**67.12**	15.0	30.0	75.0	5	J D	SW6010B	2K14027	11/14/12 14:21

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K14027-MS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1097**	30.0	60.0	100	1		SW6010B	2K14027	11/14/12 14:11
7439-96-5	Manganese (dissolved)	**566.9**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 14:11

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K14027-MSD1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1089**	30.0	60.0	100	1		SW6010B	2K14027	11/14/12 14:16
7439-96-5	Manganese (dissolved)	**566.6**	3.00	6.00	15.0	1		SW6010B	2K14027	11/14/12 14:16

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19016-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2K19016	11/26/12 15:40
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2K19016	11/26/12 15:40
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2K19016	11/26/12 15:40
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2K19016	11/26/12 15:40
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2K19016	11/26/12 15:40

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19016-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**5405**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 15:44
7439-92-1	Lead	**261.0**	1.50	3.00	3.00	1		SW6010B	2K19016	11/26/12 15:44
7439-95-4	Magnesium	**5239**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 15:44
7440-09-7	Potassium	**5032**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 15:44
7440-23-5	Sodium	**5179**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 15:44

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19016-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**64620**	5000	10000	25000	5	D	SW6010B	2K19016	11/26/12 16:49
7439-92-1	Lead	ND	7.50	15.0	15.0	5	U	SW6010B	2K19016	11/26/12 16:49
7439-95-4	Magnesium	**9213**	5000	15000	25000	5	J D	SW6010B	2K19016	11/26/12 16:49
7440-09-7	Potassium	ND	5000	15000	25000	5	U	SW6010B	2K19016	11/26/12 16:49
7440-23-5	Sodium	**30110**	5000	15000	25000	5	D	SW6010B	2K19016	11/26/12 16:49

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K19016-MS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**67180**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 16:35
7439-92-1	Lead	**250.0**	1.50	3.00	3.00	1		SW6010B	2K19016	11/26/12 16:35
7439-95-4	Magnesium	**13830**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:35
7440-09-7	Potassium	**8113**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:35
7440-23-5	Sodium	**34100**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:35

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K19016-MSD1
% Solids: 0.00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**66830**	1000	2000	5000	1		SW6010B	2K19016	11/26/12 16:40
7439-92-1	Lead	**246.6**	1.50	3.00	3.00	1		SW6010B	2K19016	11/26/12 16:40
7439-95-4	Magnesium	**13690**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:40
7440-09-7	Potassium	**8014**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:40
7440-23-5	Sodium	**33890**	1000	3000	5000	1		SW6010B	2K19016	11/26/12 16:40

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19017-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2K19017	11/30/12 13:21
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2K19017	11/30/12 13:21
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2K19017	11/30/12 13:21
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2K19017	11/30/12 13:21
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2K19017	11/30/12 13:21

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19017-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**4820**	1000	2000	5000	1	J	SW6010B	2K19017	11/30/12 13:26
7439-92-1	Lead	**248.6**	1.50	3.00	3.00	1		SW6010B	2K19017	11/30/12 13:26
7439-95-4	Magnesium	**4590**	1000	3000	5000	1	J	SW6010B	2K19017	11/30/12 13:26
7440-09-7	Potassium	**4618**	1000	3000	5000	1	J	SW6010B	2K19017	11/30/12 13:26
7440-23-5	Sodium	**4708**	1000	3000	5000	1	J	SW6010B	2K19017	11/30/12 13:26

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_070
Project: Kirtland AFB 2011
Calibration: 2319004
Sequence: 2K31912

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31912-ICV1	Iron (dissolved)	10000	10480	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	998.2	99.8	ug/L	+/- 10.00%
2K31912-CCV1	Iron (dissolved)	10000	10200	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	994.1	99.4	ug/L	+/- 10.00%
2K31912-CCV3	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1001	100	ug/L	+/- 10.00%
2K31912-CCV4	Iron (dissolved)	10000	10390	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	991.0	99.1	ug/L	+/- 10.00%
2K31912-CCV5	Iron (dissolved)	10000	10210	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	978.6	97.9	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_070
Project: Kirtland AFB 2011
Calibration: 2332001
Sequence: 2K33203

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K33203-ICV1	Calcium	50000	51490	103	ug/L	+/- 10.00%
	Lead	1000	991.9	99.2	ug/L	+/- 10.00%
	Magnesium	50000	50750	102	ug/L	+/- 10.00%
	Potassium	10000	9859	98.6	ug/L	+/- 10.00%
	Sodium	50000	50740	101	ug/L	+/- 10.00%
2K33203-CCV1	Calcium	50000	51310	103	ug/L	+/- 10.00%
	Lead	1000	997.4	99.7	ug/L	+/- 10.00%
	Magnesium	50000	50640	101	ug/L	+/- 10.00%
	Potassium	10000	9857	98.6	ug/L	+/- 10.00%
	Sodium	50000	50900	102	ug/L	+/- 10.00%
2K33203-CCV2	Calcium	50000	50580	101	ug/L	+/- 10.00%
	Lead	1000	974.5	97.5	ug/L	+/- 10.00%
	Magnesium	50000	50080	100	ug/L	+/- 10.00%
	Potassium	10000	9778	97.8	ug/L	+/- 10.00%
	Sodium	50000	50340	101	ug/L	+/- 10.00%
2K33203-CCV3	Calcium	50000	51300	103	ug/L	+/- 10.00%
	Lead	1000	963.0	96.3	ug/L	+/- 10.00%
	Magnesium	50000	50670	101	ug/L	+/- 10.00%
	Potassium	10000	10060	101	ug/L	+/- 10.00%
	Sodium	50000	51180	102	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_070
Project: Kirtland AFB 2011
Calibration: 2338002
Sequence: 2L33804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2L33804-ICV1	Calcium	50000	51780	104	ug/L	+/- 10.00%
	Lead	1000	959.0	95.9	ug/L	+/- 10.00%
	Magnesium	50000	51910	104	ug/L	+/- 10.00%
	Potassium	10000	9953	99.5	ug/L	+/- 10.00%
	Sodium	50000	51440	103	ug/L	+/- 10.00%
2L33804-CCV1	Calcium	50000	50300	101	ug/L	+/- 10.00%
	Lead	1000	963.0	96.3	ug/L	+/- 10.00%
	Magnesium	50000	46640	93.3	ug/L	+/- 10.00%
	Potassium	10000	9600	96.0	ug/L	+/- 10.00%
	Sodium	50000	50160	100	ug/L	+/- 10.00%
2L33804-CCV2	Calcium	50000	49230	98.5	ug/L	+/- 10.00%
	Lead	1000	954.2	95.4	ug/L	+/- 10.00%
	Magnesium	50000	45030	90.1	ug/L	+/- 10.00%
	Potassium	10000	9386	93.9	ug/L	+/- 10.00%
	Sodium	50000	49160	98.3	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2319004

Sequence: 2K31912

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31912-CRL1	Iron (dissolved)	60.00	70.24	117	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.230	104	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2332001

Sequence: 2K33203

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K33203-CRL1	Calcium	2000	2166	108	ug/L	80 - 120
	Lead	3.000	3.230	108	ug/L	80 - 120
	Magnesium	3000	3195	106	ug/L	80 - 120
	Potassium	3000	3052	102	ug/L	80 - 120
	Sodium	3000	3123	104	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2338002

Sequence: 2L33804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2L33804-CRL1	Calcium	2000	2042	102	ug/L	80 - 120
	Lead	3.000	3.048	102	ug/L	80 - 120
	Magnesium	3000	2932	97.7	ug/L	80 - 120
	Potassium	3000	2925	97.5	ug/L	80 - 120
	Sodium	3000	3003	100	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31912
Calibration: 2319004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31912-ICB1	Iron (dissolved)	14.19	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.03410	3.00	15.0	ug/L	U	SW6010B
2K31912-CCB1	Iron (dissolved)	4.96	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0526	3.00	15.0	ug/L	U	SW6010B
2K31912-CCB3	Iron (dissolved)	39.0	30.0	100	ug/L	J	SW6010B
	Manganese (dissolved)	0.245	3.00	15.0	ug/L	U	SW6010B
2K14027-BLK1	Iron (dissolved)	31.4	30.0	100	ug/L	J	SW6010B
	Manganese (dissolved)	0.148	3.00	15.0	ug/L	U	SW6010B
2K31912-CCB4	Iron (dissolved)	2.90	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.170	3.00	15.0	ug/L	U	SW6010B
2K31912-CCB5	Iron (dissolved)	9.31	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.184	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K33203
Calibration: 2332001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K33203-ICB1	Calcium	-0.04000	1000	5000	ug/L	U	SW6010B
	Lead	0.4832	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.300	1000	5000	ug/L	U	SW6010B
	Potassium	-52.12	1000	5000	ug/L	U	SW6010B
	Sodium	-7.060	1000	5000	ug/L	U	SW6010B
2K33203-CCB1	Calcium	-1.76	1000	5000	ug/L	U	SW6010B
	Lead	-0.0627	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.04	1000	5000	ug/L	U	SW6010B
	Potassium	-33.6	1000	5000	ug/L	U	SW6010B
	Sodium	-0.430	1000	5000	ug/L	U	SW6010B
2K19016-BLK1	Calcium	4.35	1000	5000	ug/L	U	SW6010B
	Lead	-0.134	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.63	1000	5000	ug/L	U	SW6010B
	Potassium	-25.6	1000	5000	ug/L	U	SW6010B
	Sodium	5.49	1000	5000	ug/L	U	SW6010B
2K33203-CCB2	Calcium	2.61	1000	5000	ug/L	U	SW6010B
	Lead	0.194	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.29	1000	5000	ug/L	U	SW6010B
	Potassium	-36.8	1000	5000	ug/L	U	SW6010B
	Sodium	-1.57	1000	5000	ug/L	U	SW6010B
2K33203-CCB3	Calcium	0.760	1000	5000	ug/L	U	SW6010B
	Lead	-0.170	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.04	1000	5000	ug/L	U	SW6010B
	Potassium	-41.0	1000	5000	ug/L	U	SW6010B
	Sodium	-0.330	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2L33804
Calibration: 2338002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2L33804-ICB1	Calcium	0.4700	1000	5000	ug/L	U	SW6010B
	Lead	0.1073	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.600	1000	5000	ug/L	U	SW6010B
	Potassium	-11.49	1000	5000	ug/L	U	SW6010B
	Sodium	3.220	1000	5000	ug/L	U	SW6010B
2L33804-CCB1	Calcium	-1.18	1000	5000	ug/L	U	SW6010B
	Lead	-0.778	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-5.90	1000	5000	ug/L	U	SW6010B
	Potassium	-14.8	1000	5000	ug/L	U	SW6010B
	Sodium	3.47	1000	5000	ug/L	U	SW6010B
2K19017-BLK1	Calcium	5.09	1000	5000	ug/L	U	SW6010B
	Lead	-0.713	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.67	1000	5000	ug/L	U	SW6010B
	Potassium	-13.6	1000	5000	ug/L	U	SW6010B
	Sodium	6.47	1000	5000	ug/L	U	SW6010B
2L33804-CCB2	Calcium	3.88	1000	5000	ug/L	U	SW6010B
	Lead	-0.591	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.110	1000	5000	ug/L	U	SW6010B
	Potassium	-5.48	1000	5000	ug/L	U	SW6010B
	Sodium	-0.450	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2319004
Sequence: 2K31912

Lab Sample ID	Analyte	True	Found	%R	Units
2K31912-IFA1	Iron (dissolved)	200000	201,290.00	101	ug/L
	Manganese (dissolved)		-3.91		ug/L
2K31912-IFB1	Iron (dissolved)	200000	209,850.00	105	ug/L
	Manganese (dissolved)	500.0	468.41	93.7	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2332001
Sequence: 2K33203

Lab Sample ID	Analyte	True	Found	%R	Units
2K33203-IFA1	Calcium	500000	499,730.00	99.9	ug/L
	Lead		2.82		ug/L
	Magnesium	500000	494,980.00	99.0	ug/L
	Potassium		-75.35		ug/L
	Sodium		40.52		ug/L
2K33203-IFB1	Calcium	500000	492,310.00	98.5	ug/L
	Lead	50.00	52.55	105	ug/L
	Magnesium	500000	497,340.00	99.5	ug/L
	Potassium		-71.71		ug/L
	Sodium		60.13		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2338002
Sequence: 2L33804

Lab Sample ID	Analyte	True	Found	%R	Units
2L33804-IFA1	Calcium	500000	465,710.00	93.1	ug/L
	Lead		-1.32		ug/L
	Magnesium	500000	447,720.00	89.5	ug/L
	Potassium		-40.02		ug/L
	Sodium		51.71		ug/L
2L33804-IFB1	Calcium	500000	472,200.00	94.4	ug/L
	Lead	50.00	46.53	93.1	ug/L
	Magnesium	500000	457,820.00	91.6	ug/L
	Potassium		-27.34		ug/L
	Sodium		40.78		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K14027

% Solids:

Source Sample Name: **1211066-06**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	35.29	1097	106		80 - 120
Manganese (dissolved)	500.0	61.83	566.9	101		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1089	105	0.705		20	80 - 120
Manganese (dissolved)	500.0	566.6	101	0.0670		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K19016

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	63280	67180	78.0	4x	80 - 120
Lead	250.0	ND	250.0	100		80 - 120
Magnesium	5000	8802	13830	101		80 - 120
Potassium	5000	2936	8113	104		80 - 120
Sodium	5000	29530	34100	91.3		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	66830	71.1	0.516	4x	20	80 - 120
Lead	250.0	246.6	98.6	1.35		20	80 - 120
Magnesium	5000	13690	97.7	1.05		20	80 - 120
Potassium	5000	8014	102	1.23		20	80 - 120
Sodium	5000	33890	87.3	0.597		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0773

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K19016-PS1
Batch: 2K19016
Lab Source ID: 1211066-05
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	68290	63280	5000	100	80 - 120
Lead	245.4	ND	250.0	98.8	80 - 120
Magnesium	13930	8802	5000	103	80 - 120
Potassium	8090	2936	5000	103	80 - 120
Sodium	34540	29530	5000	100	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K14027	Laboratory ID:	2K14027-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	1094	109	80 - 120
Manganese (dissolved)	500.0	513.2	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K19016	Laboratory ID:	2K19016-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	5405	108	80 - 120
Lead	250.0	261.0	104	80 - 120
Magnesium	5000	5239	105	80 - 120
Potassium	5000	5032	101	80 - 120
Sodium	5000	5179	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K19017	Laboratory ID:	2K19017-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	4820	96.4	80 - 120
Lead	250.0	248.6	99.4	80 - 120
Magnesium	5000	4590	91.8	80 - 120
Potassium	5000	4618	92.4	80 - 120
Sodium	5000	4708	94.2	80 - 120

SERIAL DILUTION

SW6010B

GW0773

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K31912
Preparation: MET_3005A

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K14027-DUP1
Lab Source ID: 1211066-06
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)	35.289	ND			SW6010B	10.00
Manganese (dissolved)	61.832	67.12	8.55		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0773

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K33203
Preparation: MET_3005A

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19016-DUP1
Lab Source ID: 1211066-05
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	63276	64620	2.12		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	8802.3	9213	4.67		SW6010B	10.00
Potassium	2935.6	ND			SW6010B	10.00
Sodium	29529	30114	1.98		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_070

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
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	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
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
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
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
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_070

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
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	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
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_070

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
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
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
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
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	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
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_070

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
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	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
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
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	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
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_070

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
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
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
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	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
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_070

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				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	589.6	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_070

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
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K14027 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-02	11/14/12 13:37	50.00	50.00
GW0765	1211066-04	11/14/12 13:37	50.00	50.00
GW0773	1211066-06	11/14/12 13:37	50.00	50.00
GW0829	1211066-08	11/14/12 13:37	50.00	50.00
GW0858	1211066-10	11/14/12 13:37	50.00	50.00
GW0859	1211066-12	11/14/12 13:37	50.00	50.00
GW0772	1211074-02	11/14/12 13:37	50.00	50.00
GW0828	1211074-04	11/14/12 13:37	50.00	50.00
GW0830	1211074-06	11/14/12 13:37	50.00	50.00
GW0757	1211091-02	11/14/12 13:37	50.00	50.00
GW0831	1211091-04	11/14/12 13:37	50.00	50.00
Blank	2K14027-BLK1	11/14/12 13:37	50.00	50.00
LCS	2K14027-BS1	11/14/12 13:37	50.00	50.00
GW0773	2K14027-DUP1	11/14/12 13:37	50.00	50.00
GW0773	2K14027-MS1	11/14/12 13:37	50.00	50.00
GW0773	2K14027-MSD1	11/14/12 13:37	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K19016 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/19/12 09:17	50.00	50.00
GW0765	1211066-03	11/19/12 09:17	50.00	50.00
GW0773	1211066-05	11/19/12 09:17	50.00	50.00
GW0829	1211066-07	11/19/12 09:17	50.00	50.00
GW0858	1211066-09	11/19/12 09:17	50.00	50.00
GW0859	1211066-11	11/19/12 09:17	50.00	50.00
GW0772	1211074-01	11/19/12 09:17	50.00	50.00
GW0828	1211074-03	11/19/12 09:17	50.00	50.00
GW0830	1211074-05	11/19/12 09:17	50.00	50.00
Blank	2K19016-BLK1	11/19/12 09:17	50.00	50.00
LCS	2K19016-BS1	11/19/12 09:17	50.00	50.00
GW0773	2K19016-DUP1	11/19/12 09:17	50.00	50.00
GW0773	2K19016-MS1	11/19/12 09:17	50.00	50.00
GW0773	2K19016-MSD1	11/19/12 09:17	50.00	50.00
GW0773	2K19016-PS1	11/19/12 09:17	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K19017 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/19/12 09:19	50.00	50.00
GW0831	1211091-03	11/19/12 09:19	50.00	50.00
Blank	2K19017-BLK1	11/19/12 09:19	50.00	50.00
LCS	2K19017-BS1	11/19/12 09:19	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31912	Instrument:	ME-ICP
Calibration:	2319004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31912-CAL1	11-14-12A-001	11/14/12 09:59
Cal Standard	2K31912-CAL2	11-14-12A-002	11/14/12 10:03
Cal Standard	2K31912-CAL3	11-14-12A-003	11/14/12 10:07
Cal Standard	2K31912-CAL4	11-14-12A-004	11/14/12 10:12
Cal Standard	2K31912-CAL5	11-14-12A-005	11/14/12 10:17
Cal Standard	2K31912-CAL6	11-14-12A-006	11/14/12 10:21
Initial Cal Check	2K31912-ICV1	11-14-12B-001	11/14/12 11:00
Initial Cal Blank	2K31912-ICB1	11-14-12B-002	11/14/12 11:07
Instrument RL Check	2K31912-CRL1	11-14-12B-003	11/14/12 11:12
Interference Check A	2K31912-IFA1	11-14-12B-006	11/14/12 11:28
Interference Check B	2K31912-IFB1	11-14-12B-007	11/14/12 11:33
Calibration Check	2K31912-CCV1	11-14-12B-009	11/14/12 11:43
Calibration Blank	2K31912-CCB1	11-14-12B-010	11/14/12 11:51
Calibration Check	2K31912-CCV3	121412C-011	11/14/12 13:33
Calibration Blank	2K31912-CCB3	121412C-012	11/14/12 13:40
Blank	2K14027-BLK1	121412C-013	11/14/12 13:47
LCS	2K14027-BS1	121412C-014	11/14/12 13:52
GW0761	1211066-02	121412C-015	11/14/12 13:58
GW0765	1211066-04	121412C-016	11/14/12 14:03
GW0773	1211066-06	121412C-017	11/14/12 14:07
GW0773	2K14027-MS1	121412C-018	11/14/12 14:11
GW0773	2K14027-MSD1	121412C-019	11/14/12 14:16
GW0773	2K14027-DUP1	121412C-020	11/14/12 14:21
GW0829	1211066-08	121412C-021	11/14/12 14:26
GW0858	1211066-10	121412C-022	11/14/12 14:30
GW0859	1211066-12	121412C-023	11/14/12 14:34
GW0772	1211074-02	121412C-024	11/14/12 14:39
GW0828	1211074-04	121412C-025	11/14/12 14:43
GW0830	1211074-06	121412C-026	11/14/12 14:48
Calibration Check	2K31912-CCV4	121412C-027	11/14/12 14:53
Calibration Blank	2K31912-CCB4	121412C-028	11/14/12 15:00
GW0757	1211091-02	121412C-029	11/14/12 15:05

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31912	Instrument:	ME-ICP
Calibration:	2319004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0831	1211091-04	121412C-030	11/14/12 15:09
Calibration Check	2K31912-CCV5	121412C-038	11/14/12 15:47
Calibration Blank	2K31912-CCB5	121412C-039	11/14/12 15:54

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33203	Instrument:	ME-ICP
Calibration:	2332001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K33203-CAL1	11-26-12A-001	11/26/12 13:47
Cal Standard	2K33203-CAL2	11-26-12A-002	11/26/12 13:52
Cal Standard	2K33203-CAL3	11-26-12A-003	11/26/12 13:56
Cal Standard	2K33203-CAL5	11-26-12A-005	11/26/12 14:05
Cal Standard	2K33203-CAL6	11-26-12A-006	11/26/12 14:10
Cal Standard	2K33203-CAL7	11-26-12A-007	11/26/12 14:16
Cal Standard	2K33203-CAL8	11-26-12A-008	11/26/12 14:21
Initial Cal Check	2K33203-ICV1	11-26-12B-001	11/26/12 14:52
Initial Cal Blank	2K33203-ICB1	11-26-12B-002	11/26/12 14:59
Instrument RL Check	2K33203-CRL1	11-26-12B-003	11/26/12 15:04
Interference Check A	2K33203-IFA1	11-26-12B-005	11/26/12 15:13
Interference Check B	2K33203-IFB1	11-26-12B-006	11/26/12 15:18
Calibration Check	2K33203-CCV1	11-26-12B-008	11/26/12 15:28
Calibration Blank	2K33203-CCB1	11-26-12B-009	11/26/12 15:35
Blank	2K19016-BLK1	11-26-12B-010	11/26/12 15:40
LCS	2K19016-BS1	11-26-12B-011	11/26/12 15:44
GW0761	1211066-01	11-26-12B-019	11/26/12 16:22
GW0765	1211066-03	11-26-12B-020	11/26/12 16:26
GW0773	1211066-05	11-26-12B-021	11/26/12 16:31
GW0773	2K19016-MS1	11-26-12B-022	11/26/12 16:35
GW0773	2K19016-MSD1	11-26-12B-023	11/26/12 16:40
GW0773	2K19016-PS1	11-26-12B-024	11/26/12 16:44
GW0773	2K19016-DUP1	11-26-12B-025	11/26/12 16:49
Calibration Check	2K33203-CCV2	11-26-12B-026	11/26/12 16:55
Calibration Blank	2K33203-CCB2	11-26-12B-027	11/26/12 17:02
GW0829	1211066-07	11-26-12C-001	11/26/12 17:08
GW0858	1211066-09	11-26-12C-002	11/26/12 17:12
GW0859	1211066-11	11-26-12C-003	11/26/12 17:17
GW0772	1211074-01	11-26-12C-008	11/26/12 17:39
GW0828	1211074-03	11-26-12C-009	11/26/12 17:44
GW0830	1211074-05	11-26-12C-010	11/26/12 17:48
Calibration Check	2K33203-CCV3	11-26-12C-011	11/26/12 17:53

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33203	Instrument:	ME-ICP
Calibration:	2332001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	2K33203-CCB3	11-26-12C-012	11/26/12 18:01

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2L33804	Instrument:	ME-ICP
Calibration:	2338002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2L33804-CAL1	113012A-001	11/30/12 11:04
Cal Standard	2L33804-CAL2	113012A-002	11/30/12 11:09
Cal Standard	2L33804-CAL3	113012A-003	11/30/12 11:13
Cal Standard	2L33804-CAL5	113012A-005	11/30/12 11:22
Cal Standard	2L33804-CAL6	113012A-006	11/30/12 11:27
Cal Standard	2L33804-CAL7	113012A-007	11/30/12 11:33
Cal Standard	2L33804-CAL8	113012A-008	11/30/12 11:38
Initial Cal Check	2L33804-ICV1	113012B-001	11/30/12 12:06
Initial Cal Blank	2L33804-ICB1	113012B-002	11/30/12 12:22
Instrument RL Check	2L33804-CRL1	113012B-004	11/30/12 12:33
Interference Check A	2L33804-IFA1	113012B-008	11/30/12 12:54
Interference Check B	2L33804-IFB1	113012B-009	11/30/12 12:59
Calibration Check	2L33804-CCV1	113012B-011	11/30/12 13:10
Calibration Blank	2L33804-CCB1	113012B-012	11/30/12 13:17
Blank	2K19017-BLK1	113012B-013	11/30/12 13:21
LCS	2K19017-BS1	113012B-014	11/30/12 13:26
GW0757	1211091-01	113012B-015	11/30/12 13:32
GW0831	1211091-03	113012B-016	11/30/12 13:37
Calibration Check	2L33804-CCV2	113012B-029	11/30/12 14:37
Calibration Blank	2L33804-CCB2	113012B-030	11/30/12 14:44

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/14/12 9:59 11/14/12 10:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.9148E-05	10000	2.9117E-05			500000	2.7924E-05		
Antimony	0	0	100	0.0005835	1000	6.2841E-04					10000	6.1071E-04
Arsenic	0	0	100	0.0003177	1000	3.4584E-04					10000	3.3262E-04
Barium	0	0	50	0.0108942	1000	0.010634	5000	0.010854				
Beryllium	0	0	100	0.0021918	1000	0.0022418					10000	0.0021715
Boron	0	0	50	0.0000212	1000	2.299E-05					5000	2.1958E-05
Cadmium	0	0	100	0.016961	1000	0.017142					10000	0.016263
Calcium	0	0	1100	6.395455E-05	50000	6.3686E-05					10000	
Chromium	0	0	100	0.0000486	1000	4.772E-05					10000	4.669E-05
Cobalt	0	0	100	0.0046186	1000	0.0045586					10000	0.0045807
Copper	0	0	100	0.0001026	1000	0.0000936					10000	9.1021E-05
Iron	0	0	5100	2.503726E-05	10000	2.4297E-05			500000	2.289E-05	10000	
Lead	0	0	100	0.0011911	1000	0.0011477					10000	0.0011697
Magnesium	0	0	5100		50000	2.7572E-06			500000	2.6706E-06	10000	
Manganese	0	0	100	0.0003727	1000	3.6055E-04	10000	3.5086E-04			10000	
Molybdenum	0	0	100	0.0034614	1000	0.0036237					10000	0.0035252
Nickel	0	0	100	0.0032117	1000	0.0031917					10000	0.0031637
Potassium	0	0	1000	0.0000171	10000	1.9249E-05						
Selenium	0	0	100	0.000323	1000	3.4056E-04					10000	3.2517E-04
Silver	0	0	20	0.000082	500	7.841999E-05	2000	8.090999E-05				
Sodium	0	0	1000		50000	7.1696E-05						
Strontium	0	0	100	0.001712	1000	0.001747					10000	0.001705
Thallium	0	0	100	0.0007636	1000	7.4706E-04					10000	7.5022E-04
Tin	0	0	50	0.0011744	1000	0.0012404					5000	0.0012242
Titanium	0	0	100	0.0001939	1000	1.9792E-04					10000	1.9858E-04
Vanadium	0	0	100	0.000045	1000	4.609E-05					10000	4.4919E-05
Zinc	0	0	100	0.0068507	1000	0.0069972					10000	0.0068277

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/14/12 9:59 11/14/12 10:31

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	0.0000609								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6051E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.9426E-05										
Selenium												
Silver												
Sodium	100000	6.964E-05	500000	6.882E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2319004	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	11/14/12 9:59	11/14/12 10:31	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.154725E-05	66.7191	5.048515	170.9948	0.9999994		0.998	
Antimony	4.55655E-04	66.7898	4.56375	189.4333	0.9999892		0.998	
Arsenic	2.4904E-04	66.82627	3.635307	187.4948	0.9999814		0.998	
Barium	8.09555E-03	66.68163	2.398397	193.1537	0.9999815		0.998	
Beryllium	1.651275E-03	66.69067	13.24289	190.067	0.9999897		0.998	
Boron	1.6537E-05	66.8141	19.10268	184.3815	0.9998998		0.998	
Cadmium	0.0125915	66.73457	2.04508	171.9113	0.9999727		0.998	
Calcium	4.713514E-05	66.73101	2.216653	133.747	0.9999796		0.998	
Chromium	3.57525E-05	66.70241	6.289578	174.6359	0.999996		0.998	
Cobalt	3.439475E-03	66.67056	1.59036	189.3567	0.9999997		0.998	
Copper	7.180525E-05	67.02407	0.9092325	40.50218	0.9999963		0.998	
Iron	1.805606E-05	66.84889	46.52795	198.6077	0.9999988		0.998	
Lead	8.77125E-04	66.69726	5.765607	186.1153	0.9999959		0.998	
Magnesium	2.008225E-06	66.73879	45.25008	198.1436	0.999946		0.998	
Manganese	2.710275E-04	66.74813	27.95518	193.2305	0.9999935		0.998	
Molybdenum	2.652575E-03	66.71416	5.601295	196.3348	0.9999915		0.998	
Nickel	2.391775E-03	66.67175	5.288502	194.4973	0.9999993		0.998	
Potassium	1.394375E-05	67.09645	1.266838	126.3387	0.9999999		0.998	
Selenium	2.471825E-04	66.74163	35.10575	198.4758	0.9999769		0.998	
Silver	6.03325E-05	66.71291	3.602032	138.6164	0.9999279		0.998	
Sodium	5.2539E-05	66.70642	14.95103	191.792	0.9999843		0.998	
Strontium	0.001291	66.68185	2.9142	142.4514	0.9999936		0.998	
Thallium	5.6522E-04	66.67873	9.12732	193.8413	0.9999997		0.998	
Tin	9.0975E-04	66.7381	3.083032	182.8732	0.9999905		0.998	
Titanium	0.0001476	66.68139	2.45188	169.9397	0.9999996		0.998	
Vanadium	3.400225E-05	66.68516	24.82937	193.504	0.9999933		0.998	
Zinc	0.0051689	66.68249	3.686025	193.4176	0.999994		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2332001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/26/12 13:47 11/26/12 14:21

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	2.4064E-05	10000	2.424E-05			500000	2.3626E-05		
Antimony	0	0	100	0.000641	1000	6.8169E-04					10000	6.7298E-04
Arsenic	0	0	100	0.0003625	1000	3.9951E-04					10000	3.9122E-04
Barium	0	0	50	0.0117394	1000	0.011482	5000	0.0116108				
Beryllium	0	0	100	0.0022827	1000	0.0022683					10000	0.0021978
Boron	0	0	50	0.0000172	1000	1.807E-05					5000	1.7792E-05
Cadmium	0	0	100	0.018697	1000	0.018831					10000	0.017811
Calcium	0	0	1100	0.0000717	50000	6.6578E-05					10000	
Chromium	0	0	100	0.000051	1000	4.999E-05					10000	5.0452E-05
Cobalt	0	0	100	0.0048151	1000	0.0047168					10000	0.004731
Copper	0	0	100	0.0000727	1000	7.017E-05					10000	7.0017E-05
Iron	0	0	5100	2.116274E-05	10000	2.0455E-05			500000	1.97606E-05	10000	
Lead	0	0	100	0.0012423	1000	0.0011844					10000	0.0012009
Magnesium	0	0	5100		50000	2.2532E-06			500000	2.2704E-06	10000	
Manganese	0	0	100	0.0002733	1000	2.6431E-04	10000	0.0002597			10000	
Molybdenum	0	0	100	0.0038096	1000	0.0039822					10000	0.0039372
Nickel	0	0	100	0.0034264	1000	0.0034044					10000	0.0034092
Potassium	0	0	1000	1.492E-05	10000	1.605E-05						
Selenium	0	0	100	0.0003731	1000	3.8914E-04					10000	3.8303E-04
Silver	0	0	20	0.000065	500	6.196E-05	2000	6.5285E-05				
Sodium	0	0	1000		50000	5.6686E-05						
Strontium	0	0	100	0.001536	1000	0.001507					10000	0.00149
Thallium	0	0	100	0.0008119	1000	7.9377E-04					10000	8.0983E-04
Tin	0	0	50	0.0013272	1000	0.0013967					5000	1.38522E-03
Titanium	0	0	100	0.0002089	1000	1.9739E-04					10000	2.0124E-04
Vanadium	0	0	100	0.0000424	1000	4.138E-05					10000	4.091E-05
Zinc	0	0	100	0.0076656	1000	0.007793					10000	0.007645

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2332001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/26/12 13:47 11/26/12 14:21

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	6.4082E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.188E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.6513E-05										
Selenium												
Silver												
Sodium	100000	5.6329E-05	500000	5.5688E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2332001	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	11/26/12 13:47	11/26/12 14:21	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.79825E-05	66.68212	3.1051	177.4253	0.9999998		0.998	
Antimony	4.989175E-04	66.75881	4.520068	174.8173	0.9999971		0.998	
Arsenic	2.883075E-04	66.89319	5.096275	178.9616	0.9999929		0.998	
Barium	8.70805E-03	66.67759	2.739195	178.3512	0.9999942		0.998	
Beryllium	0.0016872	66.70291	65.35211	198.2063	0.9999906		0.998	
Boron	1.32655E-05	66.72274	15.54713	193.5969	0.9999886		0.998	
Cadmium	1.383475E-02	66.74687	0.4101675	101.1147	0.9999696		0.998	
Calcium	5.059E-05	66.96069	0.7436725	96.87706	0.9999858		0.998	
Chromium	3.78605E-05	66.67558	4.94074	180.0775	0.999999		0.998	
Cobalt	3.565725E-03	66.67777	3.653	177.7333	0.9999998		0.998	
Copper	5.322175E-05	66.70673	2.479025	150.4939	0.9999999		0.998	
Iron	1.534459E-05	66.77094	4.899932	162.8103	0.9999995		0.998	
Lead	0.0009069	66.72074	12.67674	191.3588	0.9999974		0.998	
Magnesium	1.6779E-06	66.70022	26.97219	198.6687	0.999944		0.998	
Manganese	1.993275E-04	66.72684	9.103977	186.8623	0.9999974		0.998	
Molybdenum	2.93225E-03	66.71327	15.92849	196.687	0.9999982		0.998	
Nickel	0.00256	66.66769	28.21486	197.9703	1		0.998	
Potassium	1.187075E-05	66.9045	8.49211	182.6345	0.9999958		0.998	
Selenium	2.863175E-04	66.70663	165.8503	199.694	0.999997		0.998	
Silver	4.806125E-05	66.74014	6.508242	183.3399	0.9998137		0.998	
Sodium	4.217575E-05	66.67385	1.728593	146.1867	0.9999939		0.998	
Strontium	1.13325E-03	66.68773	4.99865	166.8128	0.9999989		0.998	
Thallium	6.03875E-04	66.68017	7.9773	185.4846	0.9999962		0.998	
Tin	1.02728E-03	66.7324	1.644177	169.383	0.9999959		0.998	
Titanium	1.518825E-04	66.74103	4.006695	176.5197	0.9999949		0.998	
Vanadium	3.11725E-05	66.69651	2.04595	141.4485	0.9999992		0.998	
Zinc	0.0057759	66.6763	4.136295	192.2897	0.9999963		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2338002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/30/12 11:04 11/30/12 11:38

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	2.737E-05	10000	2.732E-05			500000	2.7116E-05		
Antimony	0	0	100	0.00058	1000	6.1319E-04					10000	6.1225E-04
Arsenic	0	0	100	0.0003133	1000	3.3334E-04					10000	3.2841E-04
Barium	0	0	50	0.0104466	1000	0.010118	5000	0.0102238				
Beryllium	0	0	100	0.0022212	1000	0.0022192					10000	0.0021767
Boron	0	0	50	0.0000178	1000	1.676E-05					5000	1.6836E-05
Cadmium	0	0	100	0.01551	1000	0.015741					10000	0.014965
Calcium	0	0	1100	6.667273E-05	50000	6.404E-05					10000	
Chromium	0	0	100	0.000047	1000	4.452E-05					10000	4.4445E-05
Cobalt	0	0	100	0.0043288	1000	0.0042447					10000	0.0043186
Copper	0	0	100	0.0000995	1000	8.945E-05					10000	8.9134E-05
Iron	0	0	5100	2.462549E-05	10000	2.378E-05			500000	2.2728E-05	10000	
Lead	0	0	100	0.0011237	1000	0.0010757					10000	0.0011064
Magnesium	0	0	5100		50000	2.7558E-06			500000	2.806E-06	10000	
Manganese	0	0	100	0.0002859	1000	0.0002717	10000	2.7127E-04			10000	
Molybdenum	0	0	100	0.0032892	1000	0.0034031					10000	0.0033601
Nickel	0	0	100	0.0030754	1000	0.0030426					10000	0.0030874
Potassium	0	0	1000	1.809E-05	10000	1.8457E-05						
Selenium	0	0	100	0.0003198	1000	3.2656E-04					10000	3.1979E-04
Silver	0	0	20	8.149999E-05	500	7.536E-05	2000	8.1015E-05				
Sodium	0	0	1000		50000	4.7336E-05						
Strontium	0	0	100	0.001649	1000	0.001637					10000	0.001638
Thallium	0	0	100	0.0006853	1000	6.7677E-04					10000	6.9689E-04
Tin	0	0	50	0.0011378	1000	0.0011858					5000	1.17588E-03
Titanium	0	0	100	0.0002015	1000	1.9357E-04					10000	1.9649E-04
Vanadium	0	0	100	0.0000449	1000	4.356E-05					10000	4.3481E-05
Zinc	0	0	100	0.0065709	1000	0.0066537					10000	0.0065457

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2338002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/30/12 11:04 11/30/12 11:38

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	6.213E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.7011E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.8861E-05										
Selenium												
Silver												
Sodium	100000	4.7062E-05	500000	4.5956E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2338002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/30/12 11:04 11/30/12 11:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.04515E-05	66.66883	9.788915	187.0107	1		0.998	
Antimony	4.5136E-04	66.75425	3.008828	157.1611	0.9999996		0.998	
Arsenic	2.437625E-04	66.75836	11.69548	186.3609	0.9999967		0.998	
Barium	0.0076971	66.69041	3.28083	152.6806	0.9999947		0.998	
Beryllium	1.654275E-03	66.67821	56.87627	197.3699	0.9999965		0.998	
Boron	1.2849E-05	66.76838	2.844925	102.9878	0.9999976		0.998	
Cadmium	0.011554	66.7261	6.021	178.5575	0.9999746		0.998	
Calcium	4.821068E-05	66.77849	3.185138	129.0267	0.9999911		0.998	
Chromium	3.399125E-05	66.75808	5.879125	150.5289	0.9999998		0.998	
Cobalt	3.223025E-03	66.67681	1.547008	132.7429	0.9999969		0.998	
Copper	6.9521E-05	67.0253	1.702425	37.66717	0.9999996		0.998	
Iron	1.778337E-05	66.8094	37.86172	193.1669	0.9999993		0.998	
Lead	8.2645E-04	66.70991	6.496502	183.4628	0.9999915		0.998	
Magnesium	2.065725E-06	66.69891	15.28771	192.7955	0.9999449		0.998	
Manganese	2.072175E-04	66.74732	2.68445	63.85749	0.9999998		0.998	
Molybdenum	0.0025131	66.69286	3.69078	165.8633	0.999998		0.998	
Nickel	2.30135E-03	66.67174	8.55972	185.5225	0.999998		0.998	
Potassium	1.3852E-05	66.70541	5.503325	170.4354	0.9999964		0.998	
Selenium	2.415375E-04	66.67974	162.0773	199.178	0.9999954		0.998	
Silver	5.946875E-05	66.8312	2.409375	33.55504	0.9996487		0.998	
Sodium	3.50885E-05	66.68835	4.36783	144.1246	0.9999777		0.998	
Strontium	0.001231	66.66813	2.874975	124.12	1		0.998	
Thallium	5.1474E-04	66.68591	8.187078	177.991	0.9999927		0.998	
Tin	8.7487E-04	66.7086	1.49702	142.5459	0.9999958		0.998	
Titanium	1.4789E-04	66.70343	6.459433	175.3842	0.9999969		0.998	
Vanadium	3.298525E-05	66.69589	10.51439	174.3599	1		0.998	
Zinc	4.942575E-03	66.6732	6.46469	181.632	0.9999974		0.998	

PREPARATION BENCH SHEET

2K14027

Empirical Laboratories, LLC

Printed: 11/28/2012 8:52:02AM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-02	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211066-04	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211066-06	C	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	MS/MSD, Fe & Mn
1211066-08	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211066-10	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211066-12	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211074-02	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211074-04	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211074-06	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211091-02	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211091-04	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211132-02	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211132-04	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211132-06	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
1211133-02	A	MET_ICP_6010B_FULL_DIS	11/14/2012	50	50					NA	Fe & Mn
2K14027-BLK1		QC	11/14/2012	50	50					NA	
2K14027-BS1		QC	11/14/2012	50	50	12J0553		50000		NA	
2K14027-DUP1		QC	11/14/2012	50	50		1211066-06			NA	
2K14027-MS1		QC	11/14/2012	50	50	12J0556	1211066-06	50		NA	
2K14027-MSD1		QC	11/14/2012	50	50	12J0556	1211066-06	50		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K19016

Empirical Laboratories, LLC

Printed: 11/28/2012 8:53:26AM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211035-13	E	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211035-14	E	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211035-15	E	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211061-31	D	MET_ICP_6010C_FULL	11/19/2012	50	50					NA	TAL list
1211061-32	D	MET_ICP_6010C_FULL	11/19/2012	50	50					NA	TAL list
1211061-33	D	MET_ICP_6010C_FULL	11/19/2012	50	50					NA	TAL list
1211066-01	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211066-03	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211066-05	AJ	MET_ICP_6010C_FULL	11/19/2012	50	50					NA	Added for BatchQC in: 2K19016
1211066-05	AJ	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	MS/MSD, Ca, Pb, K, Na, Mg
1211066-07	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211066-09	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211066-11	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211067-02	E	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211067-03	E	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211067-04	E	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211070-05	I	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	see version
1211074-01	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211074-03	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211074-05	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211146-01	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
2K19016-BLK1		QC	11/19/2012	50	50					NA	

PREPARATION BENCH SHEET

2K19016

Empirical Laboratories, LLC

Printed: 11/28/2012 8:53:26AM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K19016-BS1		QC	11/19/2012	50	50	12J0553		50000		NA	
2K19016-DUP1		QC	11/19/2012	50	50		1211066-05			NA	
2K19016-MS1		QC	11/19/2012	50	50	12J0556	1211066-05	50		NA	
2K19016-MSD1		QC	11/19/2012	50	50	12J0556	1211066-05	50		NA	
2K19016-PS1		QC	11/19/2012	20	20	12J0556	1211066-05	20		NA	

Reagents Used:

Standard	Description
12I0242	Hydrochloric Acid
12K0197	Nitric acid

PREPARATION BENCH SHEET

2K19017

Empirical Laboratories, LLC

Printed: 12/4/2012 3:05:30PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211091-01	K	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211091-03	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211101-04	O	MET_ICP_200.7_FULL	11/19/2012	50	50					NA	Added for BatchQC in: 2K19017
1211101-04	O	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	MS/MSD, See version
1211101-05	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See version
1211133-01	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211147-01	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211154-02	A	MET_ICP_200.7_FULL	11/19/2012	50	50					NA	
1211156-01	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211156-03	A	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-02	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-03	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-04	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-05	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-06	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-07	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-08	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-09	L	MET_ICP_200.7_FULL	11/19/2012	50	50					NA	Added for BatchQC in: 2K19017
1211157-09	L	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	MS/MSD See Version
1211157-10	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-11	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version
1211157-12	D	MET_ICP_6010B_FULL	11/19/2012	50	50					NA	See Version

PREPARATION BENCH SHEET

2K19017

Empirical Laboratories, LLC

Printed: 12/4/2012 3:05:30PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K19017-BLK1		QC	11/19/2012	50	50					NA	
2K19017-BS1		QC	11/19/2012	50	50	12J0553		50000		NA	
2K19017-DUP1		QC	11/19/2012	50	50		1211101-04			NA	
2K19017-DUP2		QC	11/19/2012	50	50		1211157-09			NA	
2K19017-MS1		QC	11/19/2012	50	50	12J0556	1211101-04	50		NA	
2K19017-MS2		QC	11/19/2012	50	50	12J0556	1211157-09	50		NA	
2K19017-MSD1		QC	11/19/2012	50	50	12J0556	1211101-04	50		NA	
2K19017-MSD2		QC	11/19/2012	50	50	12J0556	1211157-09	50		NA	
2K19017-PS1		QC	11/19/2012	20	20	12J0556	1211101-04	20		NA	
2K19017-PS2		QC	11/19/2012	20	20	12J0556	1211157-09	20		NA	

Reagents Used:

Standard	Description
12I0242	Hydrochloric Acid
12K0197	Nitric acid

Data for Wet Chemistry Forms

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211066-03 [GW0765]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211066-05 [GW0773]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211066-07 [GW0829]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211066-09 [GW0858]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211066-11 [GW0859]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211074-01 [GW0772]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211074-03 [GW0828]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211074-05 [GW0830]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211091-01 [GW0757]	2K12009	250.00/200.00	270	200	1.00			11/12/12
1211091-03 [GW0831]	2K12009	250.00/200.00	270	200	1.00			11/12/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211066-03 [GW0765]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211066-09 [GW0858]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211066-11 [GW0859]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-05 [GW0773]	2K15025	5.00/5.00	5.00	5.00	1.00			11/15/12
1211066-07 [GW0829]	2K15025	5.00/5.00	5.00	5.00	1.00			11/15/12
1211074-01 [GW0772]	2K15025	5.00/5.00	5.00	5.00	1.00			11/15/12
1211074-03 [GW0828]	2K15025	5.00/5.00	5.00	5.00	1.00			11/15/12
1211074-05 [GW0830]	2K15025	5.00/5.00	5.00	5.00	1.00			11/15/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211066-03 [GW0765]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211066-05 [GW0773]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211066-07 [GW0829]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211066-09 [GW0858]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211066-11 [GW0859]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211074-01 [GW0772]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211074-03 [GW0828]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211074-05 [GW0830]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211091-01 [GW0757]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12
1211091-03 [GW0831]	2K17001	25.00/25.00	25.0	25.0	1.00			11/17/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211066-03 [GW0765]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211066-05 [GW0773]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211066-07 [GW0829]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211066-09 [GW0858]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211066-11 [GW0859]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211074-01 [GW0772]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211074-03 [GW0828]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12
1211074-05 [GW0830]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211066-01 [GW0761]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211066-03 [GW0765]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211066-05 [GW0773]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211066-07 [GW0829]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211066-09 [GW0858]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211066-11 [GW0859]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211074-01 [GW0772]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211074-03 [GW0828]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211074-05 [GW0830]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211091-01 [GW0757]	2K19001	100.00/100.00	100	100	1.00			11/19/12
1211091-03 [GW0831]	2K19001	100.00/100.00	100	100	1.00			11/19/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K19012	5.00/5.00	5.00	5.00	1.00			11/19/12
1211091-03 [GW0831]	2K19012	5.00/5.00	5.00	5.00	1.00			11/19/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211091-01 [GW0757]	2K21016	20.00/20.00	4.00	20.0	1.00			11/21/12
1211091-03 [GW0831]	2K21016	20.00/20.00	4.00	20.0	1.00			11/21/12

ANALYSIS DATA SHEET

GW0761

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-01
Sampled:	11/05/12 10:14	Received:	11/07/12 08:35
% 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	2K19001	11/19/12 12:47
18496-25-8	Sulfide	**1.00**	0.741	1.85	3.70	1	J	SM4500S2CF	2K12009	11/12/12 10:51
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**414**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 07:56
16887-00-6	Chloride	**129**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 22:17
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K17002	11/17/12 13:03
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 07:56
14808-79-8	Sulfate as SO4		0.330	1.00	2.50	1	M U	E300.0	2K14023	11/14/12 22:17

ANALYSIS DATA SHEET

GW0765

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-03
Sampled:	11/05/12 13:13	Received:	11/07/12 08:35
% 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	2K19001	11/19/12 12:48
18496-25-8	Sulfide	**1.00**	0.741	1.85	3.70	1	J	SM4500S2CF	2K12009	11/12/12 10:51
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**203**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:04
16887-00-6	Chloride	**13.3**	0.170	0.330	0.500	1		E300.0	2K14023	11/15/12 00:18
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K17002	11/17/12 13:04
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:04
14808-79-8	Sulfate as SO4	**19.3**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/15/12 00:18

ANALYSIS DATA SHEET

GW0773

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/06/12 12:02
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211066-05
Received: 11/07/12 08:35

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	2K19001	11/19/12 12:49
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:52
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**101**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:11
16887-00-6	Chloride	**51.3**	0.170	0.330	0.500	1		E300.0	2K15025	11/15/12 21:58
NA	Nitrate/Nitrite as N	**0.692**	0.250	0.750	1.50	1	J	E353.2	2K17002	11/17/12 13:05
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:11
14808-79-8	Sulfate as SO4	**60.3**	0.330	1.00	2.50	1	M	E300.0	2K15025	11/15/12 21:58

ANALYSIS DATA SHEET

GW0829

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/06/12 15:57
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211066-07
Received: 11/07/12 08:35

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	2K19001	11/19/12 12:52
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:53
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**100**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:19
16887-00-6	Chloride	**7.21**	0.170	0.330	0.500	1		E300.0	2K15025	11/16/12 01:27
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K17002	11/17/12 13:10
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:19
14808-79-8	Sulfate as SO4	**28.1**	0.330	1.00	2.50	1	M	E300.0	2K15025	11/16/12 01:27

ANALYSIS DATA SHEET

GW0858

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211066-09
Sampled:	11/05/12 13:00	Received:	11/07/12 08:35
% 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	2K19001	11/19/12 12:53
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:54
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**103**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:28
16887-00-6	Chloride	**40.5**	0.170	0.330	0.500	1		E300.0	2K14023	11/15/12 00:36
NA	Nitrate/Nitrite as N	**3.68**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:11
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:28
14808-79-8	Sulfate as SO4	**75.3**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/15/12 00:36

ANALYSIS DATA SHEET

GW0859

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/05/12 10:44
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 1211066-11
Received: 11/07/12 08:35

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	2K19001	11/19/12 12:54
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:54
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**90.8**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:31
16887-00-6	Chloride	**27.2**	0.170	0.330	0.500	1		E300.0	2K14023	11/15/12 00:53
NA	Nitrate/Nitrite as N	**1.67**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:13
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:31
14808-79-8	Sulfate as SO4	**58.0**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/15/12 00:53

ANALYSIS DATA SHEET

GW0772

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-01
Sampled:	11/07/12 10:39	Received:	11/08/12 08:35
% 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	2K19001	11/19/12 12:55
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:55
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**110**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:36
16887-00-6	Chloride	**60.0**	0.170	0.330	0.500	1		E300.0	2K15025	11/15/12 20:31
NA	Nitrate/Nitrite as N	**1.61**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:14
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:36
14808-79-8	Sulfate as SO4	**95.8**	0.330	1.00	2.50	1	M	E300.0	2K15025	11/15/12 20:31

ANALYSIS DATA SHEET

GW0828

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-03
Sampled:	11/07/12 12:59	Received:	11/08/12 08:35
% 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	2K19001	11/19/12 12:56
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:55
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**121**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:41
16887-00-6	Chloride	**52.4**	0.170	0.330	0.500	1		E300.0	2K15025	11/15/12 20:48
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K17002	11/17/12 13:16
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:41
14808-79-8	Sulfate as SO4	**40.2**	0.330	1.00	2.50	1	M	E300.0	2K15025	11/15/12 20:48

ANALYSIS DATA SHEET

GW0830

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211074-05
Sampled:	11/07/12 15:17	Received:	11/08/12 08:35
% 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	2K19001	11/19/12 12:57
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:56
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**130**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 08:45
16887-00-6	Chloride	**18.7**	0.170	0.330	0.500	1		E300.0	2K15025	11/15/12 21:06
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K17002	11/17/12 13:17
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 08:45
14808-79-8	Sulfate as SO4	**31.2**	0.330	1.00	2.50	1	M	E300.0	2K15025	11/15/12 21:06

ANALYSIS DATA SHEET

GW0757

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-01
Sampled:	11/08/12 10:37	Received:	11/09/12 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	2K19001	11/19/12 13:03
18496-25-8	Sulfide	**1.00**	0.741	1.85	3.70	1	J	SM4500S2CF	2K12009	11/12/12 10:57
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**141**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 09:21
16887-00-6	Chloride	**11.8**	0.170	0.330	0.500	1		E300.0	2K19012	11/20/12 03:48
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K21016	11/21/12 14:47
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 09:21
14808-79-8	Sulfate as SO4	**25.7**	0.330	1.00	2.50	1	M	E300.0	2K19012	11/20/12 03:48

ANALYSIS DATA SHEET

GW0831

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211091-03
Sampled:	11/08/12 13:51	Received:	11/09/12 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	2K19001	11/19/12 13:04
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:58
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**240**	1.00	1.00	1.00	1		SM2320B	2K17001	11/17/12 09:32
16887-00-6	Chloride	**41.3**	0.170	0.330	0.500	1		E300.0	2K19012	11/20/12 06:42
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K21016	11/21/12 14:48
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 09:32
14808-79-8	Sulfate as SO4	**81.4**	0.330	1.00	2.50	1	M	E300.0	2K19012	11/20/12 06:42

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K12009-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	ND	0.800	2.00	4.00	1	U	SM4500S2CF	2K12009	11/12/12 10:50

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K12009-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1218**	83.3	208	417	1		SM4500S2CF	2K12009	11/12/12 10:50

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K12009-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1296**	90.0	225	450	1		SM4500S2CF	2K12009	11/12/12 10:52

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K12009-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1296**	90.0	225	450	1		SM4500S2CF	2K12009	11/12/12 10:53

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K14023-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K14023	11/14/12 17:03
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.00	1	U	E300.0	2K14023	11/14/12 17:03

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K14023-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**5.190**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 16:28
14808-79-8	Sulfate as SO4	**24.06**	0.330	1.00	2.00	1		E300.0	2K14023	11/14/12 16:28

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K15025-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K15025	11/15/12 19:56
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.00	1	U	E300.0	2K15025	11/15/12 19:56

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K15025-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**4.374**	0.170	0.330	0.500	1		E300.0	2K15025	11/15/12 19:21
14808-79-8	Sulfate as SO4	**20.82**	0.330	1.00	2.00	1		E300.0	2K15025	11/15/12 19:21

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K15025-DUP1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**50.75**	0.170	0.330	0.500	1		E300.0	2K15025	11/15/12 22:50
14808-79-8	Sulfate as SO4	**59.50**	0.330	1.00	2.00	1		E300.0	2K15025	11/15/12 22:50

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K15025-DUP2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**7.208**	0.170	0.330	0.500	1		E300.0	2K15025	11/16/12 02:19
14808-79-8	Sulfate as SO4	**28.07**	0.330	1.00	2.00	1		E300.0	2K15025	11/16/12 02:19

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K15025-MS1
% Solids: 0.00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**79.26**	0.189	0.367	0.556	1		E300.0	2K15025	11/15/12 22:15
14808-79-8	Sulfate as SO4	**88.10**	0.367	1.11	2.22	1		E300.0	2K15025	11/15/12 22:15

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K15025-MS2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**35.81**	0.189	0.367	0.556	1		E300.0	2K15025	11/16/12 01:44
14808-79-8	Sulfate as SO4	**56.53**	0.367	1.11	2.22	1		E300.0	2K15025	11/16/12 01:44

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K15025-MSD1
% Solids: 0.00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**79.41**	0.189	0.367	0.556	1		E300.0	2K15025	11/15/12 22:33
14808-79-8	Sulfate as SO4	**88.35**	0.367	1.11	2.22	1		E300.0	2K15025	11/15/12 22:33

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K15025-MSD2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**35.73**	0.189	0.367	0.556	1		E300.0	2K15025	11/16/12 02:02
14808-79-8	Sulfate as SO4	**56.44**	0.367	1.11	2.22	1		E300.0	2K15025	11/16/12 02:02

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K17001-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K17001	11/17/12 07:41

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K17001-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1011**	5.00	5.00	5.00	1		SM2320B	2K17001	11/17/12 07:37

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K17001-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**207.6**	1.11	1.11	1.11	1		SM2320B	2K17001	11/17/12 07:45

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K17001-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**206.8**	1.11	1.11	1.11	1		SM2320B	2K17001	11/17/12 07:52

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K17002-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	ND	0.0500	0.150	0.300	1	U	E353.2	2K17002	11/17/12 12:55

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K17002-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**14.27**	1.00	3.00	6.00	1		E353.2	2K17002	11/17/12 12:57

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K17002-MS2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**3.435**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:07

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K17002-MSD2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**3.408**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:08

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19001-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	ND	0.110	0.150	0.300	1	U	SM4500NH3BG	2K19001	11/19/12 12:43

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19001-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.126**	0.110	0.150	0.300	1		SM4500NH3BG	2K19001	11/19/12 12:43

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K19001-MS2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**4.977**	0.110	0.150	0.300	1		SM4500NH3BG	2K19001	11/19/12 12:50

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19001-MSD2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.129**	0.110	0.150	0.300	1		SM4500NH3BG	2K19001	11/19/12 12:51

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K19012-BLK1
% Solids:

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K19012	11/19/12 18:31
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.00	1	U	E300.0	2K19012	11/19/12 18:31

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19012-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**4.429**	0.170	0.330	0.500	1		E300.0	2K19012	11/19/12 17:56
14808-79-8	Sulfate as SO4	**20.80**	0.330	1.00	2.00	1		E300.0	2K19012	11/19/12 17:56

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_070

Project: Kirtland AFB 2011

Laboratory ID: 2K19012-DUP2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**11.77**	0.170	0.330	0.500	1		E300.0	2K19012	11/20/12 04:40
14808-79-8	Sulfate as SO4	**25.54**	0.330	1.00	2.00	1		E300.0	2K19012	11/20/12 04:40

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Laboratory ID: 2K19012-MS2

% Solids: 0.00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**40.08**	0.189	0.367	0.556	1		E300.0	2K19012	11/20/12 04:05
14808-79-8	Sulfate as SO4	**53.84**	0.367	1.11	2.22	1		E300.0	2K19012	11/20/12 04:05

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K19012-MSD2
% Solids: 0.00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**40.16**	0.189	0.367	0.556	1		E300.0	2K19012	11/20/12 04:23
14808-79-8	Sulfate as SO4	**53.65**	0.367	1.11	2.22	1		E300.0	2K19012	11/20/12 04:23

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K21016-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	ND	0.0500	0.150	0.300	1	U	E353.2	2K21016	11/21/12 14:38

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K21016-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**14.54**	1.00	3.00	6.00	1		E353.2	2K21016	11/21/12 14:39

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_070
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K31404

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31404-ICV1	Chloride	4.800	4.831	101	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.52	98.0	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_070
Project: Kirtland AFB 2011
Calibration: 2322002
Sequence: 2K32202

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32202-ICV1	Nitrate/Nitrite as N	1.200	1.233	103	mg/L	+/- 10.00%
2K32202-CCV1	Nitrate/Nitrite as N	1.200	1.232	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_070
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K32405

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32405-CCV1	Chloride	25.00	25.22	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.41	102	mg/L	+/- 10.00%
2K32405-CCV2	Chloride	25.00	25.35	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.08	100	mg/L	+/- 10.00%
2K32405-CCV3	Chloride	25.00	25.53	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.20	101	mg/L	+/- 10.00%
2K32405-CCV4	Chloride	25.00	25.68	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.38	102	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_070
Project: Kirtland AFB 2011
Calibration: 2324003
Sequence: 2K32411

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32411-ICV1	Ammonia as N	2.000	2.144	107	mg/L	+/- 10.00%
2K32411-CCV1	Ammonia as N	2.000	2.142	107	mg/L	+/- 10.00%
2K32411-CCV2	Ammonia as N	2.000	2.104	105	mg/L	+/- 10.00%
2K32411-CCV3	Ammonia as N	2.000	2.121	106	mg/L	+/- 10.00%
2K32411-CCV4	Ammonia as N	2.000	2.107	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_070
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K32503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32503-CCV1	Chloride	25.00	24.80	99.2	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.02	100	mg/L	+/- 10.00%
2K32503-CCV2	Chloride	25.00	25.10	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.97	99.9	mg/L	+/- 10.00%
2K32503-CCV3	Chloride	25.00	25.05	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.95	99.8	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_070
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K32510

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32510-CCV1	Chloride	25.00	25.25	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.81	99.2	mg/L	+/- 10.00%
2K32510-CCV2	Chloride	25.00	25.18	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.01	100	mg/L	+/- 10.00%
2K32510-CCV3	Chloride	25.00	25.14	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.06	100	mg/L	+/- 10.00%
2K32510-CCV4	Chloride	25.00	25.31	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.83	99.3	mg/L	+/- 10.00%
2K32510-CCV5	Chloride	25.00	25.41	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.04	100	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_070
Project: Kirtland AFB 2011
Calibration: 2326002
Sequence: 2K32615

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32615-ICV1	Nitrate/Nitrite as N	1.200	1.259	105	mg/L	+/- 10.00%
2K32615-CCV1	Nitrate/Nitrite as N	1.200	1.266	106	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K32405

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32405-CRL1	Chloride	0.5000	0.4690	93.8	mg/L	75 - 125
2K32405-CRL3	Sulfate as SO4	2.500	2.318	92.7	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K32503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32503-CRL1	Chloride	0.5000	0.4380	87.6	mg/L	75 - 125
2K32503-CRL3	Sulfate as SO4	2.500	2.245	89.8	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K32510

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32510-CRL1	Chloride	0.5000	0.4470	89.4	mg/L	75 - 125
2K32510-CRL3	Sulfate as SO4	2.500	2.313	92.5	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K12009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K12009-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K14023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K14023-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_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K15025

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K15025-BLK1	Chloride	-0.0280	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K17001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K17001-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_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K17002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K17002-BLK1	Nitrate/Nitrite as N	-0.0288	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K19001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K19001-BLK1	Ammonia as N	0.0761	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K19012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K19012-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
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K21016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K21016-BLK1	Nitrate/Nitrite as N	-0.0384	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31404
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31404-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
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32202
Calibration: 2322002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32202-ICB1	Nitrate/Nitrite as N	-0.03162	0.0500	0.300	mg/L	U	E353.2
2K32202-CCB1	Nitrate/Nitrite as N	-0.0374	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32405
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32405-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
2K32405-CCB2	Chloride	-0.0360	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K32405-CCB3	Chloride	0.0210	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K32405-CCB4	Chloride	0.00200	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_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32411
Calibration: 2324003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32411-ICB1	Ammonia as N	-0.01282	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB1	Ammonia as N	0.00749	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB2	Ammonia as N	-0.00844	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB3	Ammonia as N	0.00103	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB4	Ammonia as N	0.0114	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32503
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32503-CCB1	Chloride	-0.0260	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K32503-CCB2	Chloride	-0.0170	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K32503-CCB3	Chloride	0.0180	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32510
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32510-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
2K32510-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
2K32510-CCB3	Chloride	-0.0520	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K32510-CCB4	Chloride	-0.0460	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K32510-CCB5	Chloride	-0.0560	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_070
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32615
Calibration: 2326002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32615-ICB1	Nitrate/Nitrite as N	-0.03748	0.0500	0.300	mg/L	U	E353.2
2K32615-CCB1	Nitrate/Nitrite as N	-0.0450	0.0500	0.300	mg/L	U	E353.2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K12009

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1250	ND	1296	104		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1250	1296	104	0.00		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K15025

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	51.30	79.26	101		80 - 120
Sulfate as SO4	27.78	60.25	88.10	100		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	79.41	101	0.183		20	80 - 120
Sulfate as SO4	27.78	88.35	101	0.280		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0829

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K15025

% Solids:

Source Sample Name: **1211066-07**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	7.208	35.81	103		80 - 120
Sulfate as SO4	27.78	28.06	56.53	102		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Chloride	27.78	35.73	103	0.236		20	80 - 120
Sulfate as SO4	27.78	56.44	102	0.150		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K17001

% Solids:

Source Sample Name: **1211066-05**

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	101.3	207.6	95.7		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	206.8	94.9	0.433		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K17002

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	0.6920	3.435	110		90 - 110

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	3.408	109	0.789		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0773

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K19001

% Solids:

Source Sample Name: **1211066-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.977	99.5		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	5.129	103	3.01		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0757

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K19012

% Solids:

Source Sample Name: **1211091-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	11.85	40.08	102		80 - 120
Sulfate as SO4	27.78	25.70	53.84	101		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	40.16	102	0.180		20	80 - 120
Sulfate as SO4	27.78	53.65	101	0.339		20	80 - 120

GW0773

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K15025
Preparation: pNone
Source Sample Name: GW0773

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K15025-DUP1
Lab Source ID: 1211066-05
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	51.3	50.75	1.08		E300.0
Sulfate as SO4	20	60.3	59.50	1.26		E300.0

DUPLICATES

GW0829

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K15025
Preparation: pNone
Source Sample Name: GW0829

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K15025-DUP2
Lab Source ID: 1211066-07
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	7.21	7.208	0.00		E300.0
Sulfate as SO4	20	28.1	28.07	0.0570		E300.0

GW0757

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K19012
Preparation: pNone
Source Sample Name: GW0757

SDG: Kirtland_070
Project: Kirtland AFB 2011
Laboratory ID: 2K19012-DUP2
Lab Source ID: 1211091-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	11.8	11.77	0.686		E300.0
Sulfate as SO4	20	25.7	25.54	0.624		E300.0

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K12009	Laboratory ID:	2K12009-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1250	1218	97.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K14023	Laboratory ID:	2K14023-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	5.190	108	90 - 110
Sulfate as SO4	24.00	24.06	100	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15025	Laboratory ID:	2K15025-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.200	4.374	104	90 - 110
Sulfate as SO4	21.00	20.82	99.1	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K17001	Laboratory ID:	2K17001-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	1011	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K17002	Laboratory ID:	2K17002-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	14.27	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K19001	Laboratory ID:	2K19001-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	5.126	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K19012	Laboratory ID:	2K19012-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.200	4.429	105	90 - 110
Sulfate as SO4	21.00	20.80	99.0	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K21016	Laboratory ID:	2K21016-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	14.54	103	90 - 110

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K12009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/12/12 07:13	270.00	200.00
GW0765	1211066-03	11/12/12 07:13	270.00	200.00
GW0773	1211066-05	11/12/12 07:13	270.00	200.00
GW0829	1211066-07	11/12/12 07:13	270.00	200.00
GW0858	1211066-09	11/12/12 07:13	270.00	200.00
GW0859	1211066-11	11/12/12 07:13	270.00	200.00
GW0772	1211074-01	11/12/12 07:13	270.00	200.00
GW0828	1211074-03	11/12/12 07:13	270.00	200.00
GW0830	1211074-05	11/12/12 07:13	270.00	200.00
GW0757	1211091-01	11/12/12 07:13	270.00	200.00
GW0831	1211091-03	11/12/12 07:13	270.00	200.00
Blank	2K12009-BLK1	11/12/12 07:13	250.00	200.00
LCS	2K12009-BS1	11/12/12 07:13	3.00	250.00
GW0773	2K12009-MS1	11/12/12 07:13	3.00	270.00
GW0773	2K12009-MSD1	11/12/12 07:13	3.00	270.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K14023 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/14/12 12:30	5.00	5.00
GW0765	1211066-03	11/14/12 12:30	5.00	5.00
GW0858	1211066-09	11/14/12 12:30	5.00	5.00
GW0859	1211066-11	11/14/12 12:30	5.00	5.00
Blank	2K14023-BLK1	11/14/12 12:30	5.00	5.00
LCS	2K14023-BS1	11/14/12 12:30	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K15025 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0773	1211066-05	11/15/12 11:07	5.00	5.00
GW0829	1211066-07	11/15/12 11:07	5.00	5.00
GW0772	1211074-01	11/15/12 11:07	5.00	5.00
GW0828	1211074-03	11/15/12 11:07	5.00	5.00
GW0830	1211074-05	11/15/12 11:07	5.00	5.00
Blank	2K15025-BLK1	11/15/12 11:07	5.00	5.00
LCS	2K15025-BS1	11/15/12 11:07	5.00	5.00
GW0773	2K15025-DUP1	11/15/12 11:07	5.00	5.00
GW0829	2K15025-DUP2	11/15/12 11:07	5.00	5.00
GW0773	2K15025-MS1	11/15/12 11:07	22.50	25.00
GW0829	2K15025-MS2	11/15/12 11:07	22.50	25.00
GW0773	2K15025-MSD1	11/15/12 11:07	22.50	25.00
GW0829	2K15025-MSD2	11/15/12 11:07	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K17001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/17/12 07:07	25.00	25.00
GW0765	1211066-03	11/17/12 07:07	25.00	25.00
GW0773	1211066-05	11/17/12 07:07	25.00	25.00
GW0829	1211066-07	11/17/12 07:07	25.00	25.00
GW0858	1211066-09	11/17/12 07:07	25.00	25.00
GW0859	1211066-11	11/17/12 07:07	25.00	25.00
GW0772	1211074-01	11/17/12 07:07	25.00	25.00
GW0828	1211074-03	11/17/12 07:07	25.00	25.00
GW0830	1211074-05	11/17/12 07:07	25.00	25.00
GW0757	1211091-01	11/17/12 07:07	25.00	25.00
GW0831	1211091-03	11/17/12 07:07	25.00	25.00
Blank	2K17001-BLK1	11/17/12 07:07	25.00	25.00
LCS	2K17001-BS1	11/17/12 07:07	5.00	25.00
GW0773	2K17001-MS1	11/17/12 07:07	22.50	25.00
GW0773	2K17001-MSD1	11/17/12 07:07	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K17002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/17/12 09:30	4.00	20.00
GW0765	1211066-03	11/17/12 09:30	4.00	20.00
GW0773	1211066-05	11/17/12 09:30	4.00	20.00
GW0829	1211066-07	11/17/12 09:30	4.00	20.00
GW0858	1211066-09	11/17/12 09:30	4.00	20.00
GW0859	1211066-11	11/17/12 09:30	4.00	20.00
GW0772	1211074-01	11/17/12 09:30	4.00	20.00
GW0828	1211074-03	11/17/12 09:30	4.00	20.00
GW0830	1211074-05	11/17/12 09:30	4.00	20.00
Blank	2K17002-BLK1	11/17/12 09:30	20.00	20.00
LCS	2K17002-BS1	11/17/12 09:30	1.00	20.00
GW0773	2K17002-MS2	11/17/12 09:30	4.00	20.00
GW0773	2K17002-MSD2	11/17/12 09:30	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K19001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0761	1211066-01	11/19/12 05:36	100.00	100.00
GW0765	1211066-03	11/19/12 05:36	100.00	100.00
GW0773	1211066-05	11/19/12 05:36	100.00	100.00
GW0829	1211066-07	11/19/12 05:36	100.00	100.00
GW0858	1211066-09	11/19/12 05:36	100.00	100.00
GW0859	1211066-11	11/19/12 05:36	100.00	100.00
GW0772	1211074-01	11/19/12 05:36	100.00	100.00
GW0828	1211074-03	11/19/12 05:36	100.00	100.00
GW0830	1211074-05	11/19/12 05:36	100.00	100.00
GW0757	1211091-01	11/19/12 05:36	100.00	100.00
GW0831	1211091-03	11/19/12 05:36	100.00	100.00
Blank	2K19001-BLK1	11/19/12 05:36	100.00	100.00
LCS	2K19001-BS1	11/19/12 05:36	100.00	100.00
GW0773	2K19001-MS2	11/19/12 05:36	100.00	100.00
GW0773	2K19001-MSD2	11/19/12 05:36	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K19012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/19/12 08:05	5.00	5.00
GW0831	1211091-03	11/19/12 08:05	5.00	5.00
Blank	2K19012-BLK1	11/19/12 08:05	5.00	5.00
LCS	2K19012-BS1	11/19/12 08:05	5.00	5.00
GW0757	2K19012-DUP2	11/19/12 08:05	5.00	5.00
GW0757	2K19012-MS2	11/19/12 08:05	22.50	25.00
GW0757	2K19012-MSD2	11/19/12 08:05	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_070

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

Batch: 2K21016 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0757	1211091-01	11/21/12 13:34	4.00	20.00
GW0831	1211091-03	11/21/12 13:34	4.00	20.00
Blank	2K21016-BLK1	11/21/12 13:34	20.00	20.00
LCS	2K21016-BS1	11/21/12 13:34	1.00	20.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2K17001-BS1	111712-002	11/17/12 07:37
Blank	2K17001-BLK1	111712-003	11/17/12 07:41
GW0773	2K17001-MS1	111712-004	11/17/12 07:45
GW0773	2K17001-MSD1	111712-005	11/17/12 07:52

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_070

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2K12009-BS1		11/12/12 10:50
Blank	2K12009-BLK1	111212-001	11/12/12 10:50
GW0773	2K12009-MS1	111212-005	11/12/12 10:52
GW0773	2K12009-MSD1	111212-006	11/12/12 10:53

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31404	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31404-CAL1	110612-003	11/06/12 08:58
Cal Standard	2K31404-CAL2	110612-004	11/06/12 09:15
Cal Standard	2K31404-CAL3	110612-005	11/06/12 09:32
Cal Standard	2K31404-CAL4	110612-006	11/06/12 09:50
Cal Standard	2K31404-CAL5	110612-007	11/06/12 10:07
Cal Standard	2K31404-CAL6	110612-008	11/06/12 10:25
Cal Standard	2K31404-CAL7	110612-009	11/06/12 10:42
Cal Standard	2K31404-CAL8	110612-010	11/06/12 10:59
Initial Cal Check	2K31404-ICV1	110612-011	11/06/12 11:17
Initial Cal Blank	2K31404-ICB1	110612-012	11/06/12 11:34

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32202	Instrument:	WC-Lachat
Calibration:	2322002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32202-CAL1	M_11-17-2012_12-37-48PM-0	11/17/12 12:39
Cal Standard	2K32202-CAL2	M_11-17-2012_12-37-48PM-0	11/17/12 12:41
Cal Standard	2K32202-CAL3	M_11-17-2012_12-37-48PM-0	11/17/12 12:42
Cal Standard	2K32202-CAL4	M_11-17-2012_12-37-48PM-0	11/17/12 12:44
Cal Standard	2K32202-CAL5	M_11-17-2012_12-37-48PM-0	11/17/12 12:45
Cal Standard	2K32202-CAL6	M_11-17-2012_12-37-48PM-0	11/17/12 12:47
Cal Standard	2K32202-CAL7	M_11-17-2012_12-37-48PM-0	11/17/12 12:48
Cal Standard	2K32202-CAL8	M_11-17-2012_12-37-48PM-0	11/17/12 12:49
Initial Cal Check	2K32202-ICV1	M_11-17-2012_12-37-48PM-0	11/17/12 12:51
Initial Cal Blank	2K32202-ICB1	M_11-17-2012_12-37-48PM-0	11/17/12 12:52
Blank	2K17002-BLK1	M_11-17-2012_12-37-48PM-0	11/17/12 12:55
LCS	2K17002-BS1	M_11-17-2012_12-37-48PM-0	11/17/12 12:57
GW0761	1211066-01	M_11-17-2012_12-37-48PM-0	11/17/12 13:03
GW0765	1211066-03	M_11-17-2012_12-37-48PM-0	11/17/12 13:04
GW0773	1211066-05	M_11-17-2012_12-37-48PM-0	11/17/12 13:05
GW0773	2K17002-MS2	M_11-17-2012_12-37-48PM-0	11/17/12 13:07
GW0773	2K17002-MSD2	M_11-17-2012_12-37-48PM-0	11/17/12 13:08
GW0829	1211066-07	M_11-17-2012_12-37-48PM-0	11/17/12 13:10
GW0858	1211066-09	M_11-17-2012_12-37-48PM-0	11/17/12 13:11
GW0859	1211066-11	M_11-17-2012_12-37-48PM-0	11/17/12 13:13
GW0772	1211074-01	M_11-17-2012_12-37-48PM-0	11/17/12 13:14
GW0828	1211074-03	M_11-17-2012_12-37-48PM-0	11/17/12 13:16
GW0830	1211074-05	M_11-17-2012_12-37-48PM-0	11/17/12 13:17
Calibration Check	2K32202-CCV1	M_11-17-2012_12-37-48PM-0	11/17/12 13:18
Calibration Blank	2K32202-CCB1	M_11-17-2012_12-37-48PM-0	11/17/12 13:20

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32405	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32405-CCV1	111412-003	11/14/12 15:01
Calibration Blank	2K32405-CCB1	111412-004	11/14/12 15:19
Instrument RL Check	2K32405-CRL1	111412-005	11/14/12 15:36
Instrument RL Check	2K32405-CRL3	111412-007	11/14/12 16:11
LCS	2K14023-BS1	111412-008	11/14/12 16:28
Blank	2K14023-BLK1	111412-010	11/14/12 17:03
Calibration Check	2K32405-CCV2	111412-021	11/14/12 20:15
Calibration Blank	2K32405-CCB2	111412-022	11/14/12 20:32
GW0761	1211066-01	111412-028	11/14/12 22:17
Calibration Check	2K32405-CCV3	111412-033	11/14/12 23:44
Calibration Blank	2K32405-CCB3	111412-034	11/15/12 00:01
GW0765	1211066-03	111412-035	11/15/12 00:18
GW0858	1211066-09	111412-036	11/15/12 00:36
GW0859	1211066-11	111412-037	11/15/12 00:53
Calibration Check	2K32405-CCV4	111412-041	11/15/12 02:03
Calibration Blank	2K32405-CCB4	111412-042	11/15/12 02:20

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32411	Instrument:	WC-Lachat
Calibration:	2324003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32411-CAL1	M_11-19-2012_12-05-36PM-0	11/19/12 12:06
Cal Standard	2K32411-CAL2	M_11-19-2012_12-05-36PM-0	11/19/12 12:07
Cal Standard	2K32411-CAL3	M_11-19-2012_12-05-36PM-0	11/19/12 12:08
Cal Standard	2K32411-CAL4	M_11-19-2012_12-05-36PM-0	11/19/12 12:09
Cal Standard	2K32411-CAL5	M_11-19-2012_12-05-36PM-0	11/19/12 12:10
Cal Standard	2K32411-CAL6	M_11-19-2012_12-05-36PM-0	11/19/12 12:11
Cal Standard	2K32411-CAL7	M_11-19-2012_12-05-36PM-0	11/19/12 12:12
Cal Standard	2K32411-CAL8	M_11-19-2012_12-05-36PM-0	11/19/12 12:13
Initial Cal Check	2K32411-ICV1	M_11-19-2012_12-05-36PM-0	11/19/12 12:14
Initial Cal Blank	2K32411-ICB1	M_11-19-2012_12-05-36PM-0	11/19/12 12:15
Calibration Check	2K32411-CCV1	M_11-19-2012_12-05-36PM-0	11/19/12 12:29
Calibration Blank	2K32411-CCB1	M_11-19-2012_12-05-36PM-0	11/19/12 12:30
Calibration Check	2K32411-CCV2	M_11-19-2012_12-05-36PM-0	11/19/12 12:41
Calibration Blank	2K32411-CCB2	M_11-19-2012_12-05-36PM-0	11/19/12 12:42
LCS	2K19001-BS1	M_11-19-2012_12-05-36PM-0	11/19/12 12:43
Blank	2K19001-BLK1	M_11-19-2012_12-05-36PM-0	11/19/12 12:43
GW0761	1211066-01	M_11-19-2012_12-05-36PM-0	11/19/12 12:47
GW0765	1211066-03	M_11-19-2012_12-05-36PM-0	11/19/12 12:48
GW0773	1211066-05	M_11-19-2012_12-05-36PM-0	11/19/12 12:49
GW0773	2K19001-MS2	M_11-19-2012_12-05-36PM-0	11/19/12 12:50
GW0773	2K19001-MSD2	M_11-19-2012_12-05-36PM-0	11/19/12 12:51
GW0829	1211066-07	M_11-19-2012_12-05-36PM-0	11/19/12 12:52
GW0858	1211066-09	M_11-19-2012_12-05-36PM-0	11/19/12 12:53
GW0859	1211066-11	M_11-19-2012_12-05-36PM-0	11/19/12 12:54
GW0772	1211074-01	M_11-19-2012_12-05-36PM-0	11/19/12 12:55
GW0828	1211074-03	M_11-19-2012_12-05-36PM-0	11/19/12 12:56
GW0830	1211074-05	M_11-19-2012_12-05-36PM-0	11/19/12 12:57
Calibration Check	2K32411-CCV3	M_11-19-2012_12-05-36PM-0	11/19/12 12:58
Calibration Blank	2K32411-CCB3	M_11-19-2012_12-05-36PM-0	11/19/12 12:59
GW0757	1211091-01	M_11-19-2012_12-05-36PM-0	11/19/12 13:03
GW0831	1211091-03	M_11-19-2012_12-05-36PM-0	11/19/12 13:04
Calibration Check	2K32411-CCV4	M_11-19-2012_12-05-36PM-0	11/19/12 13:10

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32411	Instrument:	WC-Lachat
Calibration:	2324003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	2K32411-CCB4	M_11-19-2012_12-05-36PM-0	11/19/12 13:11

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32503	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32503-CCV1	111512-003	11/15/12 17:37
Calibration Blank	2K32503-CCB1	111512-004	11/15/12 17:54
Instrument RL Check	2K32503-CRL1	111512-005	11/15/12 18:11
Instrument RL Check	2K32503-CRL3	111512-007	11/15/12 18:46
LCS	2K15025-BS1	111512-009	11/15/12 19:21
Blank	2K15025-BLK1	111512-011	11/15/12 19:56
GW0772	1211074-01	111512-013	11/15/12 20:31
GW0828	1211074-03	111512-014	11/15/12 20:48
GW0830	1211074-05	111512-015	11/15/12 21:06
GW0773	1211066-05	111512-018	11/15/12 21:58
GW0773	2K15025-MS1	111512-019	11/15/12 22:15
GW0773	2K15025-MSD1	111512-020	11/15/12 22:33
GW0773	2K15025-DUP1	111512-021	11/15/12 22:50
Calibration Check	2K32503-CCV2	111512-022	11/15/12 23:07
Calibration Blank	2K32503-CCB2	111512-023	11/15/12 23:25
GW0829	1211066-07	111512-030	11/16/12 01:27
GW0829	2K15025-MS2	111512-031	11/16/12 01:44
GW0829	2K15025-MSD2	111512-032	11/16/12 02:02
GW0829	2K15025-DUP2	111512-033	11/16/12 02:19
Calibration Check	2K32503-CCV3	111512-034	11/16/12 02:36
Calibration Blank	2K32503-CCB3	111512-035	11/16/12 02:54

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32510	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32510-CCV1	111912-003	11/19/12 16:29
Calibration Blank	2K32510-CCB1	111912-004	11/19/12 16:47
Instrument RL Check	2K32510-CRL1	111912-005	11/19/12 17:04
Instrument RL Check	2K32510-CRL3	111912-007	11/19/12 17:39
LCS	2K19012-BS1	111912-008	11/19/12 17:56
Blank	2K19012-BLK1	111912-010	11/19/12 18:31
Calibration Check	2K32510-CCV2	111912-022	11/19/12 22:00
Calibration Blank	2K32510-CCB2	111912-023	11/19/12 22:17
Calibration Check	2K32510-CCV3	111912-034	11/20/12 01:29
Calibration Blank	2K32510-CCB3	111912-035	11/20/12 01:46
GW0757	1211091-01	111912-042	11/20/12 03:48
GW0757	2K19012-MS2	111912-043	11/20/12 04:05
GW0757	2K19012-MSD2	111912-044	11/20/12 04:23
GW0757	2K19012-DUP2	111912-045	11/20/12 04:40
Calibration Check	2K32510-CCV4	111912-046	11/20/12 04:58
Calibration Blank	2K32510-CCB4	111912-047	11/20/12 05:15
GW0831	1211091-03	111912-052	11/20/12 06:42
Calibration Check	2K32510-CCV5	111912-057	11/20/12 08:09
Calibration Blank	2K32510-CCB5	111912-058	11/20/12 08:27

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_070
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32615	Instrument:	WC-Lachat
Calibration:	2326002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32615-CAL1	M_11-21-2012_02-20-25PM-0	11/21/12 14:22
Cal Standard	2K32615-CAL2	M_11-21-2012_02-20-25PM-0	11/21/12 14:23
Cal Standard	2K32615-CAL3	M_11-21-2012_02-20-25PM-0	11/21/12 14:25
Cal Standard	2K32615-CAL4	M_11-21-2012_02-20-25PM-0	11/21/12 14:26
Cal Standard	2K32615-CAL5	M_11-21-2012_02-20-25PM-0	11/21/12 14:28
Cal Standard	2K32615-CAL6	M_11-21-2012_02-20-25PM-0	11/21/12 14:29
Cal Standard	2K32615-CAL7	M_11-21-2012_02-20-25PM-0	11/21/12 14:31
Cal Standard	2K32615-CAL8	M_11-21-2012_02-20-25PM-0	11/21/12 14:32
Initial Cal Check	2K32615-ICV1	M_11-21-2012_02-20-25PM-0	11/21/12 14:34
Initial Cal Blank	2K32615-ICB1	M_11-21-2012_02-20-25PM-0	11/21/12 14:35
Blank	2K21016-BLK1	M_11-21-2012_02-20-25PM-0	11/21/12 14:38
LCS	2K21016-BS1	M_11-21-2012_02-20-25PM-0	11/21/12 14:39
GW0757	1211091-01	M_11-21-2012_02-20-25PM-0	11/21/12 14:47
GW0831	1211091-03	M_11-21-2012_02-20-25PM-0	11/21/12 14:48
Calibration Check	2K32615-CCV1	M_11-21-2012_02-20-25PM-0	11/21/12 14:52
Calibration Blank	2K32615-CCB1	M_11-21-2012_02-20-25PM-0	11/21/12 14:54

PREPARATION BENCH SHEET

2K12009

Empirical Laboratories, LLC

Printed: 11/18/2012 2:14:31PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-01	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211066-03	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211066-05	AM	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	MS/MSD
1211066-07	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211066-09	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211066-11	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211074-01	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211074-03	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211074-05	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211075-02	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211087-04	U	WC_SULFIDE_4500S2CF	11/12/2012	295	200					NA	NO MS/MSD, Insufficient volume provided.
1211091-01	L	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
1211091-03	M	WC_SULFIDE_4500S2CF	11/12/2012	270	200					NA	
2K12009-BLK1		QC	11/12/2012	250	200					NA	
2K12009-BS1		QC	11/12/2012	3	250	12K0359		3000		NA	
2K12009-MS1		QC	11/12/2012	3	270	12K0359	1211066-05	3000		NA	
2K12009-MSD1		QC	11/12/2012	3	270	12K0359	1211066-05	3000		NA	

PREPARATION BENCH SHEET

2K12009

Empirical Laboratories, LLC

Printed: 11/18/2012 2:14:31PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
11L0688	Sulfide Thyodene Indicator
12D0082	Sulfide Sodium Hydroxide Solution 6N
12D0111	Sulfide 6M HCl Reagent
12J0849	Sulfide 0.025N Sodium Thiosulfate Reagent
12J0852	Sulfide 0.025N Iodine Solution Reagent

PREPARATION BENCH SHEET

2K14023

Empirical Laboratories, LLC

Printed: 11/27/2012 3:08:36PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-03	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-05	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-07	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-09	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-11	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-13	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-15	AD	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	MS/MSD, Cl, SO4
1211036-15	AD	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	Added for BatchQC in: 2K14023
1211036-17	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-19	AD	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	Added for BatchQC in: 2K14023
1211036-19	AD	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	MS/MSD, Cl, SO4
1211036-21	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-01	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-03	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-09	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-11	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211131-04	A	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	see versions
1211132-01	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211132-03	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211132-05	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211134-01	C	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	

PREPARATION BENCH SHEET

2K14023

Empirical Laboratories, LLC

Printed: 11/27/2012 3:08:36PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K14023-BLK1		QC	11/14/2012	5	5					NA	
2K14023-BS1		QC	11/14/2012	5	5	12J0971		5000		NA	
2K14023-BS2		QC	11/14/2012	5	5	12K0289		5000		NA	
2K14023-DUP1		QC	11/14/2012	5	5		1211036-15			NA	
2K14023-DUP2		QC	11/14/2012	5	5		1211036-19			NA	
2K14023-MS1		QC	11/14/2012	22.5	25	12J0966	1211036-15	2500		NA	
2K14023-MS2		QC	11/14/2012	22.5	25	12J0966	1211036-19	2500		NA	
2K14023-MSD1		QC	11/14/2012	22.5	25	12J0966	1211036-15	2500		NA	
2K14023-MSD2		QC	11/14/2012	22.5	25	12J0966	1211036-19	2500		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K15025

Empirical Laboratories, LLC

Printed: 11/29/2012 4:49:48PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-05	AD	WC_ANIONS_300.0 (Short Hol	11/15/2012	5	5					NA	Added for BatchQC in: 2K15025
1211066-05	AD	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	MS/MSD, Cl, SO4
1211066-07	J	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl, SO4
1211066-07	J	WC_ANIONS_300.0 (Short Hol	11/15/2012	5	5					NA	Added for BatchQC in: 2K15025
1211074-01	J	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl, SO4
1211074-03	J	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl, SO4
1211074-05	J	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl, SO4
1211076-01	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211076-02	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211076-03	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211076-04	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211076-05	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211076-06	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211076-07	C	WC_ANIONS_300.0 (Regular)	11/15/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211139-04	B	WC_ANIONS_300.0 (Short Hol	11/15/2012	5	5					NA	see versions
2K15025-BLK1		QC	11/15/2012	5	5					NA	
2K15025-BS1		QC	11/15/2012	5	5	12K0289		5000		NA	
2K15025-DUP1		QC	11/15/2012	5	5		1211066-05			NA	
2K15025-DUP2		QC	11/15/2012	5	5		1211066-07			NA	
2K15025-MS1		QC	11/15/2012	22.5	25	12J0966	1211066-05	2500		NA	
2K15025-MS2		QC	11/15/2012	22.5	25	12J0966	1211066-07	2500		NA	
2K15025-MSD1		QC	11/15/2012	22.5	25	12J0966	1211066-05	2500		NA	

PREPARATION BENCH SHEET

2K15025

Empirical Laboratories, LLC

Printed: 11/29/2012 4:49:48PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K15025-MSD2		QC	11/15/2012	22.5	25	12J0966	1211066-07	2500		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K17001

Empirical Laboratories, LLC

Printed: 11/28/2012 8:59:10AM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-01	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211066-03	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211066-05	AC	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	MS/MSD, carb/bicarb
1211066-07	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211066-09	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211066-11	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211074-01	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211074-03	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211074-05	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211088-07	G	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	
1211088-08	G	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	
1211088-09	G	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	
1211088-10	G	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	
1211088-11	G	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	
1211091-01	I	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211091-03	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211132-01	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211132-03	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211132-05	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
1211146-01	J	WC_ALKALINITY_2320B	11/17/2012	25	25					NA	carb/bicarb
2K17001-BLK1		QC	11/17/2012	25	25					NA	
2K17001-BS1		QC	11/17/2012	5	25	12K0073		5000		NA	

PREPARATION BENCH SHEET

2K17001

Empirical Laboratories, LLC

Printed: 11/28/2012 8:59:10AM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K17001-MS1		QC	11/17/2012	22.5	25	12K0073	1211066-05	2500		NA	
2K17001-MSD1		QC	11/17/2012	22.5	25	12K0073	1211066-05	2500		NA	

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12E0017	Alkalinity Sulfuric Acid Solution 0.020 N
12J0158	pH 7.0 Buffer Yellow

PREPARATION BENCH SHEET

2K17002

Empirical Laboratories, LLC

Printed: 11/27/2012 3:13:16PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-19	AG	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	MS/MSD
1211066-01	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-03	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-05	AG	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	MS/MSD
1211066-07	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-09	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-11	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211074-01	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211074-03	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211074-05	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-01	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-02	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-03	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-04	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-05	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-06	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-07	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211134-01	D	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211145-01	A	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211146-01	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
2K17002-BLK1		QC	11/17/2012	20	20					NA	
2K17002-BS1		QC	11/17/2012	1	20	12G0617		1000		NA	

PREPARATION BENCH SHEET

2K17002

Empirical Laboratories, LLC

Printed: 11/27/2012 3:13:16PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K17002-MS1		QC	11/17/2012	4	20	12J0190	1211036-19	500		NA	
2K17002-MS2		QC	11/17/2012	4	20	12J0190	1211066-05	500		NA	
2K17002-MSD1		QC	11/17/2012	4	20	12J0190	1211036-19	500		NA	
2K17002-MSD2		QC	11/17/2012	4	20	12J0190	1211066-05	500		NA	

Reagents Used:

Standard	Description
12K0110	NO2/NO3 Buffer
12K0603	NO3/NO2 Carrier (Acid DI)
12K0617	NO2/NO3 Sulfanilimide Color Reagent

PREPARATION BENCH SHEET

2K19001

Empirical Laboratories, LLC

Printed: 11/27/2012 3:14:17PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-15	AF	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	MS/MSD
1211066-01	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-03	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-05	AF	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	MS/MSD
1211066-07	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-09	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-11	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211074-01	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211074-03	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211074-05	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211085-13	B	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211085-14	B	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211085-15	B	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211091-01	J	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211091-03	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211131-01	A	WC_AMMONIA_PHENATE_45	11/19/2012	10	100					NA	
1211131-03	A	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211139-01	A	WC_AMMONIA_PHENATE_45	11/19/2012	10	100					NA	
1211139-03	A	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211139-04	A	WC_AMMONIA_PHENATE_45	11/19/2012	10	100					NA	
2K19001-BLK1		QC	11/19/2012	100	100					NA	9.47
2K19001-BLK2		QC	11/19/2012	100	100					NA	

PREPARATION BENCH SHEET

2K19001

Empirical Laboratories, LLC

Printed: 11/27/2012 3:14:17PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K19001-BS1		QC	11/19/2012	100	100	12J0868		100000		NA	9.45
2K19001-MS1		QC	11/19/2012	100	100	12A0397	1211036-15	500		NA	9.47
2K19001-MS2		QC	11/19/2012	100	100	12A0397	1211066-05	500		NA	9.55
2K19001-MSD1		QC	11/19/2012	100	100	12A0397	1211036-15	500		NA	9.56
2K19001-MSD2		QC	11/19/2012	100	100	12A0397	1211066-05	500		NA	9.47

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12B0877	10.00 pH Buffer
12G0038	10 N NaOH
12G0053	1N H2SO4
12G0621	1N NaOH Solution
12I0495	Boric Acid
12I0537	NH3 Sodium Nitroprusside Reagent
12J0158	pH 7.0 Buffer Yellow
12J0895	NH3 Buffer
12K0255	Borate Buffer
12K0543	NH3 Sodium Phenolate Reagent
12K0657	NH3 Sodium Hypochlorite Reagent

PREPARATION BENCH SHEET

2K19012

Empirical Laboratories, LLC

Printed: 11/28/2012 9:00:48AM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211085-01	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-02	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-03	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-04	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-05	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-06	C	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	MS/MSD.SO4 only
1211085-07	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-08	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-09	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-10	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-11	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-12	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-13	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-14	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211085-15	A	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	SO4 only
1211091-01	I	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	Cl, SO4
1211091-03	J	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	Cl, SO4
1211093-01	C	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211133-01	J	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	Cl, SO4
1211146-01	J	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	Cl, SO4
2K19012-BLK1		QC	11/19/2012	5	5					NA	
2K19012-BS1		QC	11/19/2012	5	5	12K0289		5000		NA	

PREPARATION BENCH SHEET

2K19012

Empirical Laboratories, LLC

Printed: 11/28/2012 9:00:48AM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K19012-DUP1		QC	11/19/2012	5	5		1211085-06			NA	
2K19012-DUP2		QC	11/19/2012	5	5		1211091-01			NA	
2K19012-MS1		QC	11/19/2012	22.5	25	12J0966	1211085-06	2500		NA	
2K19012-MS2		QC	11/19/2012	22.5	25	12J0966	1211091-01	2500		NA	
2K19012-MSD1		QC	11/19/2012	22.5	25	12J0966	1211085-06	2500		NA	
2K19012-MSD2		QC	11/19/2012	22.5	25	12J0966	1211091-01	2500		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K21016

Empirical Laboratories, LLC

Printed: 11/28/2012 9:03:47AM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211091-01	J	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211091-03	K	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211093-01	E	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211093-02	E	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211093-03	E	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211093-04	E	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211093-05	E	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211093-06	E	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211133-01	K	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211147-01	K	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211166-01	K	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
1211175-01	A	WC_NO3NO2_N_353.2	11/21/2012	4	20					NA	
2K21016-BLK1		QC	11/21/2012	20	20					NA	
2K21016-BS1		QC	11/21/2012	1	20	12G0617		1000		NA	
2K21016-MS1		QC	11/21/2012	4	20	12J0190	1211166-01	500		NA	
2K21016-MSD1		QC	11/21/2012	4	20	12J0190	1211166-01	500		NA	

Reagents Used:

Standard	Description
12K0110	NO2/NO3 Buffer
12K0603	NO3/NO2 Carrier (Acid DI)
12K0617	NO2/NO3 Sulfanilimide Color Reagent