ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_041

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

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THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

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

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

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

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

SW8260B:
The following batch spike exceeded criteria:
2A31015-BS1 with a positive bias for Acetone

The following continuing calibration verifications exceeded criteria:
2A02606-CCV1 with a positive bias for Acetone and a negative bias for Bromomethane
2A02704-CCV1 with a negative bias for Bromomethane and Chloromethane and a positive bias for Acetone

2A03011-CCV1 with a positive bias for Acetone
2A03101-CCV1 with a negative bias for Bromomethane and Chloromethane
2B03201-CCV1 with a positive bias for Acetone

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

SW8270C BNA:
The following surrogates exceeded criteria:
2-Fluorophenol with a negative bias in 1201137-03, 1201139-03, -07, -09, -11RE1, and 1201151-03; note – sample 1201139-09 exceeded criteria with a negative bias at 8.31%; however, no re-extraction was performed due to lack of sample volume
2,4,6-Tribromophenol with a negative bias in 1201139-03, -09

The following batch spikes exceeded criteria:
2A26004-BS1 with a negative bias for Caprolactam and with a positive bias Atrazine, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, and Di-n-octylphthalate
2A30004-BS1/BSD1 with a negative bias for Caprolactam, a positive bias for 3,3'-Dichlorobenzidine, and exceeded relative percent difference criteria for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol

The following matrix spikes exceeded criteria:
2A26004-MS1/MSD1 (1201137-03) with a negative bias for Caprolactam and 4,6-Dinitro-2-methylphenol, a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Atrazine, and exceeded relative percent difference criteria for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, and Pentachlorophenol

The following continuing calibration verifications exceeded criteria:
2A02801-CCV1 with a negative bias for Atrazine and Benzaldehyde and with a positive bias for Benzo(b)fluoranthene, Benzo(k)fluoranthene, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Hexachlorocyclopentadiene
2A03106-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Butylbenzylphthalate, Di-n-octylphthalate, Bis(2-ethylhexyl)phthalate, Hexachlorocyclopentadiene, 2,4,5-Trichlorophenol, and Terphenyl-d14
2B03312-CCV1 with a negative bias for Benzaldehyde and with a positive bias for Benzo(b)fluoranthene, Dibenz(a,h)anthracene, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, Bis(2-ethylhexyl)phthalate, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene, and 2,4,5-Trichlorophenol

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

SW8270C PAH:
No anomalies or deviations are noted.

SW8015B DRO:
The following batch spike exceeded criteria:
2A27002-BS1 with a negative bias for Diesel Range Organics; note – all associated samples were re-extracted. Samples 1201137-03, -05, -07, -09, 1201139-01, and -07 were re-extracted 8 days and sample 1201137-01 was re-extracted 22 days after sampling with a 7 day method recommended holding time. Both extractions/analyses are included for the samples re-extracted out of holding time.

The following matrix spikes exceeded criteria:
2A27002-MS1/MSD1 (1201137-03) with a negative bias for Diesel Range Organics; note – the matrix spikes were re-extracted 8 days after sampling with a 7 day method recommended holding time.

The following surrogate exceeded the retention time window:
o-Terphenyl in 2A31004-BLK1, 2A31004-MS1, and 2B03416-CCV3; note – the retention time shift was determined to be negligible for all affected QC.

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

SW8015B GRO:
No anomalies or deviations are noted.

SW8011:
No anomalies or deviations are noted.

SW6010B:
The following matrix spikes exceeded criteria:
2B02007-MS1/MSD1 (1201137-03) for Calcium; note – the parent sample concentrations for Calcium is greater than 4 times the amount spiked

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

Wet Chemistry:
The following matrix spikes exceeded criteria:
2A25015-MS1/MSD1 (1201137-03) with a positive bias for Sulfide
2A27015-MS1 (1201193-01) with a negative bias for Chloride and Sulfate as SO4

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

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

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.2 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.2 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.

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

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

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

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

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

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

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

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

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

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

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

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

S: The associated internal standard failed criteria.

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

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

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

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

LIMS Definitions / Naming Conventions:

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

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

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

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

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

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

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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

GC/MS Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Shaw
Shaw E & I, Inc.

'20137

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW161

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

Samples Shipment Date: 23 JAN 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616505

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Shaw — Date: 1/23/12 Time: 1602
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: 1/24/12 Time: 0845

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	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

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1201137

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW161

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0375	2819-R-CRT-WG-GW0375-REG	23 JAN 2012	09:12	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0376	KAFB-003-WG-GW0376-REG	23 JAN 2012	12:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0376-MS	KAFB-003-WG-GW0376-MS-MS	23 JAN 2012	12:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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Shaw E & I, Inc.

1201137

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW161

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
04	GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0376-MSD	KAFB-003-WG-GW0376-MSD-MSD	23 JAN 2012	12:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
05	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
06	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0377	KAFB-015-WG-GW0377-REG	23 JAN 2012	11:16	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
07	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
08	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0397	KAFB-106018-WG-GW0397-REG	23 JAN 2012	13:48	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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1201137

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW161

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
09	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
0	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0398	KAFB-106019-WG-GW0398-REG	23 JAN 2012	10:55	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
11	GW8161-TB	FIELDQC-BW-GW8161-TB-TB	23 JAN 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 01/24/12 @ 0845

WO# 1201137

1. Tracking # 6505 (last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.4 Degrees Celsius + correction factor 0.0 = 0.4

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/24/12 @ 0845

WO# 1201137

1. Tracking #_____6576_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.7 *Degrees Celsius + correction factor 0.0* = 3.7

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/24/12 @ 0845

WO# 1201137

1. Tracking # 6527 (last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 23 *Degrees Celsius + correction factor 0.0* = 23

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/24/12 @ 0845

1. Tracking #_____6539_____(last 4 digits, FedEx) WO# 1201137

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.2 *Degrees Celsius + correction factor 0.0* = 2.2

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

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Shaw E & I, Inc.

1201139

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW162
Page 1 of 4

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

Samples Shipment Date: 24 JAN 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306610549

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Shaw Date: 1-24-12 Time: 1400
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: 1/25/12 Time: 0700

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	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

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1201139

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW162

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0378	KAFB-016-WG-GW0378-REG	23 JAN 2012	14:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
03	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
04	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8270C (Low Level - SIM)			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0379	ST106-VA2-WG-GW0379-REG	24 JAN 2012	9:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
05	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8270C (Low Level - SIM)			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
06	GW0380	ST106-VA2-WG-GW0380-FD	24 JAN 2012	9:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		

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1201139

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW162

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0396	KAFB-106017-WG-GW0396-REG	23 JAN 2012	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0428	KAFB-106049-WG-GW0428-REG	24 JAN 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
11	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
12	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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1201139

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW162

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B					
11	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
↓	GW0430	KAFB-106051-WG-GW0430-REG	24 JAN 2012	11:21	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
13	GW8162-TB	FIELDQC-BW-GW8162-TB-TB	24 JAN 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 01/25/12 @ 0700

1. Tracking # 6549 (last 4 digits, FedEx) WO# 1201139

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.5 *Degrees Celsius + correction factor 0.0* = 3.5

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/25/12 @ 0700

1. Tracking # 6582 (last 4 digits, FedEx) WO# 1201139

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 4.0 *Degrees Celsius + correction factor 0.0* = 4.0

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/25/12 @ 0700

WO# R91139

1. Tracking # 6550 (last 4 digits, FedEx)

Courier: ___FED-EX

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

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/25/12 @ 0700

1. Tracking # 6560 (last 4 digits, FedEx) WO# 1201139

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.5 *Degrees Celsius + correction factor 0.0* = 3.5

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/25/12 @ 0700

1. Tracking # 6571 (last 4 digits, FedEx) WO# 1201139

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.2° Degrees Celsius + correction factor 0.0 = 2.2

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

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

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

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

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

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

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

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

Additional Details:

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120 1151

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW163
Page 1 of 2

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

Samples Shipment Date: 25 JAN 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618593

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Shaw Date: 1-25-12 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: 1/26/12 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
01	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

1201151

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW163

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0404	KAFB-106025-WG-GW0404-REG	25 JAN 2012	14:41	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0410	KAFB-106033-WG-GW0410-REG	24 JAN 2012	14:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0429	KAFB-106050-WG-GW0429-REG	25 JAN 2012	10:21	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
07	GW8163-TB	FIELDQC-BW-GW8163-TB-TB	25 JAN 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 01/26/12 @ 0830

1. Tracking # 6608 (last 4 digits, FedEx) WO# 1201151

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.5 *Degrees Celsius + correction factor 0.0* = 3.5

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

I certify that I unloaded the cooler and answered questions 7-14 (intial) [illegible]

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

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

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

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/26/12 @ 0830

1. Tracking #_____6542_____(last 4 digits, FedEx) WO# 1201151

Courier: ___FED-EX

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

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Shaw
Shaw E & I, Inc.

1201193

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW164

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

Samples Shipment Date: 26 JAN 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616619

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) SHAW Date: 1-26-2012 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) Date: 1/27/11 Time: 0820

Comments:

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

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1201193

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW164

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0466	KAFB-106083-WG-GW0466-REG	26 JAN 2012	13:52	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
03	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0467	KAFB-106083-WG-GW0467-FD	26 JAN 2012	13:52	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
05	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
06	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0468	KAFB-106084-WG-GW0468-REG	26 JAN 2012	11:32	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
07	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		

Shaw
Shaw E & I, Inc.

1201193

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW164

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
08	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0472	KAFB-106088-WG-GW0472-REG	26 JAN 2012	9:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
09	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
0	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0475	KAFB-106090-WG-GW0475-REG	26 JAN 2012	14:03	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
12	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0493	KAFB-106023-WG-GW0493-REG	25 JAN 2012	15:47	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
13	GW8164-TB	FIELDQC-BW-GW8164-TB-TB	26 JAN 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 01/27/12 @ 0820

1. Tracking #_6619_(last 4 digits, FedEx) WO# 1201193

Courier: ___FED-EX

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

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/27/12 @ 0820

1. Tracking # 6620 (last 4 digits, FedEx) WO# 1201193

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.1 *Degrees Celsius + correction factor 0.0* = 1.1

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

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

If yes, how many and where: 1 BACK

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/27/12 @ 0820

1. Tracking # 6641 (last 4 digits, FedEx) WO# 1201193

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.8 *Degrees Celsius + correction factor 0.0* = 2.8

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

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

If yes, how many and where: FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 01/27/12 @ 0820

1. Tracking # 6630 (last 4 digits, FedEx) WO# 1201193

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.8 *Degrees Celsius + correction factor 0.0* = 2.8

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

WORK ORDER **Printed: 2/14/2012 11:43:00AM**

1201137

Empirical Laboratories, LLC

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

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

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

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

Date Due: 02/14/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright
Date Received: 01/24/2012 08:45

Logged In By: Benjamin C. Wright
Date Logged In: 01/24/2012 11:06

Samples Received at: **0.4°C**

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

Method	Test Code	Due	TAT	Expires	Comments

WORK ORDER

Printed: 2/14/2012 11:43:00AM

1201137

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201137-01 GW0375 [Water] Sampled 01/23/2012 09:12 Mountain					
SM2320B	WC_ALKALINITY_2320B	02/09/2012 14:00	15	02/06/2012 10:12	carb/bicarb
SW8015B DR(	SGC_DRO_8015B_3510	02/09/2012 14:00	15	01/30/2012 10:12	
SW8011	SGC_EDB_8011	02/09/2012 14:00	15	02/06/2012 10:12	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	02/09/2012 14:00	15	07/21/2012 10:12	Ca, Pb, K, Na, Mg
SW8260B	VOC_8260B_REG	02/09/2012 14:00	15	02/06/2012 10:12	Must report Naphthalene
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/09/2012 14:00	15	02/20/2012 10:12	
E300.0	WC_ANIONS_300.0 (Regular)	02/09/2012 14:00	15	02/20/2012 10:12	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	02/09/2012 14:00	15	02/20/2012 10:12	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/09/2012 14:00	15	01/30/2012 10:12	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/09/2012 14:00	15	01/30/2012 10:12	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GR(	VGC_GRO_8015B	02/09/2012 14:00	15	02/06/2012 10:12	
1201137-02 GW0375 [Water] Sampled 01/23/2012 09:12 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/09/2012 14:00	15	07/21/2012 10:12	Fe & Mn

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1201137

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201137-03 GW0376 [Water] Sampled 01/23/2012 12:46 Mountain					**MS/MSD.**
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/09/2012 14:00	15	01/30/2012 13:46	MS/MSD.requires 3-Methlphenol/4-Methylphenol/Naphthale
SW8015B DR(	SGC_DRO_8015B_3510	02/09/2012 14:00	15	01/30/2012 13:46	MS/MSD.
SW6010B	MET_ICP_6010B_FULL	02/09/2012 14:00	15	07/21/2012 13:46	MS/MSD.Ca, Pb, K, Na, Mg
E300.0	WC_ANIONS_300.0 (Regular)	02/09/2012 14:00	15	02/20/2012 13:46	MS/MSD.Cl, SO4
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/09/2012 14:00	15	02/20/2012 13:46	MS/MSD.
SW8011	SGC_EDB_8011	02/09/2012 14:00	15	02/06/2012 13:46	MS/MSD.Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	02/09/2012 14:00	15	01/30/2012 13:46	MS/MSD.
SW8015B GR(	VGC_GRO_8015B	02/09/2012 14:00	15	02/06/2012 13:46	MS/MSD.
E353.2	WC_NO3NO2_N_353.2	02/09/2012 14:00	15	02/20/2012 13:46	MS/MSD.
SM2320B	WC_ALKALINITY_2320B	02/09/2012 14:00	15	02/06/2012 13:46	MS/MSD.carb/bicarb
SW8260B	VOC_8260B_REG	02/09/2012 14:00	15	02/06/2012 13:46	MS/MSD.Must report Naphthalene
1201137-04 GW0376 [Water] Sampled 01/23/2012 12:46 Mountain					**MS/MSD.**
SW6010B	MET_ICP_6010B_FULL_DIS	02/09/2012 14:00	15	07/21/2012 13:46	MS/MSD.Fe & Mn

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1201137

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201137-05 GW0377 [Water] Sampled 01/23/2012 11:16 Mountain					
SW8015B GR(	VGC_GRO_8015B	02/09/2012 14:00	15	02/06/2012 12:16	
SW8260B	VOC_8260B_REG	02/09/2012 14:00	15	02/06/2012 12:16	Must report Naphthalene
SM2320B	WC_ALKALINITY_2320B	02/09/2012 14:00	15	02/06/2012 12:16	carb/bicarb
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/09/2012 14:00	15	01/30/2012 12:16	requires 3-Methlphenol/4-Methylphenol/Napthalene
SW6010B	MET_ICP_6010B_FULL	02/09/2012 14:00	15	07/21/2012 12:16	Ca, Pb, K, Na, Mg
SW8015B DR(	SGC_DRO_8015B_3510	02/09/2012 14:00	15	01/30/2012 12:16	
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/09/2012 14:00	15	02/20/2012 12:16	
E300.0	WC_ANIONS_300.0 (Regular)	02/09/2012 14:00	15	02/20/2012 12:16	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	02/09/2012 14:00	15	02/20/2012 12:16	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/09/2012 14:00	15	01/30/2012 12:16	
SW8011	SGC_EDB_8011	02/09/2012 14:00	15	02/06/2012 12:16	Run dilutions based on 8260 results!
1201137-06 GW0377 [Water] Sampled 01/23/2012 11:16 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/09/2012 14:00	15	07/21/2012 12:16	Fe & Mn

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1201137

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201137-07 GW0397 [Water] Sampled 01/23/2012 13:48 Mountain					
SW6010B	MET_ICP_6010B_FULL	02/09/2012 14:00	15	07/21/2012 14:48	Ca, Pb, K, Na, Mg
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/09/2012 14:00	15	01/30/2012 14:48	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E353.2	WC_NO3NO2_N_353.2	02/09/2012 14:00	15	02/20/2012 14:48	
E300.0	WC_ANIONS_300.0 (Regular)	02/09/2012 14:00	15	02/20/2012 14:48	Cl, SO4
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/09/2012 14:00	15	02/20/2012 14:48	
SM2320B	WC_ALKALINITY_2320B	02/09/2012 14:00	15	02/06/2012 14:48	carb/bicarb
SW8260B	VOC_8260B_REG	02/09/2012 14:00	15	02/06/2012 14:48	Must report Naphthalene
SW8015B GR(	VGC_GRO_8015B	02/09/2012 14:00	15	02/06/2012 14:48	
SW8015B DR(	SGC_DRO_8015B_3510	02/09/2012 14:00	15	01/30/2012 14:48	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/09/2012 14:00	15	01/30/2012 14:48	
SW8011	SGC_EDB_8011	02/09/2012 14:00	15	02/06/2012 14:48	Run dilutions based on 8260 results!
1201137-08 GW0397 [Water] Sampled 01/23/2012 13:48 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/09/2012 14:00	15	07/21/2012 14:48	Fe & Mn

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1201137

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1201137-09 GW0398 [Water] Sampled 01/23/2012 10:55 Mountain					
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/09/2012 14:00	15	01/30/2012 11:55	requires 3-Methlphenol/4-Methylphenol/Napthalene
SW6010B	MET_ICP_6010B_FULL	02/09/2012 14:00	15	07/21/2012 11:55	Ca, Pb, K, Na, Mg
SW8015B DR(	SGC_DRO_8015B_3510	02/09/2012 14:00	15	01/30/2012 11:55	
SW8011	SGC_EDB_8011	02/09/2012 14:00	15	02/06/2012 11:55	Run dilutions based on 8260 results!
SW8015B GR(	VGC_GRO_8015B	02/09/2012 14:00	15	02/06/2012 11:55	
SW8260B	VOC_8260B_REG	02/09/2012 14:00	15	02/06/2012 11:55	Must report Naphthalene
SM2320B	WC_ALKALINITY_2320B	02/09/2012 14:00	15	02/06/2012 11:55	carb/bicarb
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/09/2012 14:00	15	02/20/2012 11:55	
E300.0	WC_ANIONS_300.0 (Regular)	02/09/2012 14:00	15	02/20/2012 11:55	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	02/09/2012 14:00	15	02/20/2012 11:55	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/09/2012 14:00	15	01/30/2012 11:55	
1201137-10 GW0398 [Water] Sampled 01/23/2012 10:55 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/09/2012 14:00	15	07/21/2012 11:55	Fe & Mn
1201137-11 GW8161-TB [Water] Sampled 01/23/2012 08:00 Mountain					
SW8260B	VOC_8260B_REG	02/09/2012 14:00	15	02/06/2012 09:00	Must report Naphthalene

Reviewed By

Date

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1201139

Empirical Laboratories, LLC

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

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

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

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

Date Due: 02/15/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright
Date Received: 01/25/2012 07:00

Logged In By: Benjamin C. Wright
Date Logged In: 01/25/2012 09:39

Samples Received at: **3.5°C**

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

Method	Test Code	Due	TAT	Expires	Comments

WORK ORDER

Printed: 2/14/2012 11:44:10AM

1201139

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201139-01 GW0378 [Water] Sampled 01/23/2012 14:10 Mountain					
E353.2	WC_NO3NO2_N_353.2	02/10/2012 14:00	15	02/20/2012 15:10	
SW6010B	MET_ICP_6010B_FULL	02/10/2012 14:00	15	07/21/2012 15:10	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	02/10/2012 14:00	15	01/30/2012 15:10	
E300.0	WC_ANIONS_300.0 (Regular)	02/10/2012 14:00	15	02/20/2012 15:10	Cl, SO4
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/10/2012 14:00	15	02/20/2012 15:10	
SM2320B	WC_ALKALINITY_2320B	02/10/2012 14:00	15	02/06/2012 15:10	carb/bicarb
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/06/2012 15:10	Must report Naphthalene
SW8015B GR(	VGC_GRO_8015B	02/10/2012 14:00	15	02/06/2012 15:10	
SW8011	SGC_EDB_8011	02/10/2012 14:00	15	02/06/2012 15:10	Run dilutions based on 8260 results!
SW8015B DR(	SGC_DRO_8015B_3510	02/10/2012 14:00	15	01/30/2012 15:10	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/10/2012 14:00	15	01/30/2012 15:10	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1201139-02 GW0378 [Water] Sampled 01/23/2012 14:10 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/10/2012 14:00	15	07/21/2012 15:10	Fe & Mn

WORK ORDER

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1201139

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201139-03 GW0379 [Water] Sampled 01/24/2012 09:10 Mountain					
SW8015B GR(	VGC_GRO_8015B	02/10/2012 14:00	15	02/07/2012 10:10	
E300.0	WC_ANIONS_300.0 (Regular)	02/10/2012 14:00	15	02/21/2012 10:10	Cl, SO4
SW8270C	ZZ_SMS_PAH_8270C_3510_LOW	02/10/2012 14:00	15	01/31/2012 10:10	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/10/2012 14:00	15	01/31/2012 10:10	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	02/10/2012 14:00	15	01/31/2012 10:10	
E353.2	WC_NO3NO2_N_353.2	02/10/2012 14:00	15	02/21/2012 10:10	
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/10/2012 14:00	15	02/21/2012 10:10	
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/07/2012 10:10	Must report Naphthalene
SW8011	SGC_EDB_8011	02/10/2012 14:00	15	02/07/2012 10:10	Run dilutions based on 8260 results!
SW8015B DR(	SGC_DRO_8015B_3510	02/10/2012 14:00	15	01/31/2012 10:10	
SW6010B	MET_ICP_6010B_FULL	02/10/2012 14:00	15	07/22/2012 10:10	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	02/10/2012 14:00	15	02/07/2012 10:10	carb/bicarb
1201139-04 GW0379 [Water] Sampled 01/24/2012 09:10 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/10/2012 14:00	15	07/22/2012 10:10	Fe & Mn

WORK ORDER

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1201139

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201139-05 GW0380 [Water] Sampled 01/24/2012 09:10 Mountain					
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/10/2012 14:00	15	01/31/2012 10:10	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8270C	ZZ_SMS_PAH_8270C_3510_LOW	02/10/2012 14:00	15	01/31/2012 10:10	
SW6010B	MET_ICP_6010B_FULL	02/10/2012 14:00	15	07/22/2012 10:10	Ca, Pb, K, Na, Mg
SW8015B DR(	SGC_DRO_8015B_3510	02/10/2012 14:00	15	01/31/2012 10:10	
SW8011	SGC_EDB_8011	02/10/2012 14:00	15	02/07/2012 10:10	Run dilutions based on 8260 results!
SW8015B GR(	VGC_GRO_8015B	02/10/2012 14:00	15	02/07/2012 10:10	
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/07/2012 10:10	Must report Naphthalene
E353.2	WC_NO3NO2_N_353.2	02/10/2012 14:00	15	02/21/2012 10:10	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/10/2012 14:00	15	01/31/2012 10:10	
E300.0	WC_ANIONS_300.0 (Regular)	02/10/2012 14:00	15	02/21/2012 10:10	Cl, SO4
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/10/2012 14:00	15	02/21/2012 10:10	
SM2320B	WC_ALKALINITY_2320B	02/10/2012 14:00	15	02/07/2012 10:10	carb/bicarb
1201139-06 GW0380 [Water] Sampled 01/24/2012 09:10 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/10/2012 14:00	15	07/22/2012 10:10	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:44:10AM

1201139

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201139-07 GW0396 [Water] Sampled 01/23/2012 16:45 Mountain					
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/10/2012 14:00	15	01/30/2012 17:45	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	02/10/2012 14:00	15	01/30/2012 17:45	
E353.2	WC_NO3NO2_N_353.2	02/10/2012 14:00	15	02/20/2012 17:45	
SW8015B GR(	VGC_GRO_8015B	02/10/2012 14:00	15	02/06/2012 17:45	
SW8011	SGC_EDB_8011	02/10/2012 14:00	15	02/06/2012 17:45	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	02/10/2012 14:00	15	07/21/2012 17:45	Ca, Pb, K, Na, Mg
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/10/2012 14:00	15	02/20/2012 17:45	
SM2320B	WC_ALKALINITY_2320B	02/10/2012 14:00	15	02/06/2012 17:45	carb/bicarb
SW8015B DR(	SGC_DRO_8015B_3510	02/10/2012 14:00	15	01/30/2012 17:45	
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/06/2012 17:45	Must report Naphthalene
E300.0	WC_ANIONS_300.0 (Regular)	02/10/2012 14:00	15	02/20/2012 17:45	Cl, SO4
1201139-08 GW0396 [Water] Sampled 01/23/2012 16:45 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/10/2012 14:00	15	07/21/2012 17:45	Fe & Mn

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1201139

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201139-09 GW0428 [Water] Sampled 01/24/2012 14:00 Mountain					
SM2320B	WC_ALKALINITY_2320B	02/10/2012 14:00	15	02/07/2012 15:00	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	02/10/2012 14:00	15	02/21/2012 15:00	Cl, SO4
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/07/2012 15:00	Must report Naphthalene
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/10/2012 14:00	15	02/21/2012 15:00	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/10/2012 14:00	15	01/31/2012 15:00	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/10/2012 14:00	15	01/31/2012 15:00	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E353.2	WC_NO3NO2_N_353.2	02/10/2012 14:00	15	02/21/2012 15:00	
SW8015B DR(	SGC_DRO_8015B_3510	02/10/2012 14:00	15	01/31/2012 15:00	
SW8011	SGC_EDB_8011	02/10/2012 14:00	15	02/07/2012 15:00	Run dilutions based on 8260 results!
SW8015B GR(	VGC_GRO_8015B	02/10/2012 14:00	15	02/07/2012 15:00	
SW6010B	MET_ICP_6010B_FULL	02/10/2012 14:00	15	07/22/2012 15:00	Ca, Pb, K, Na, Mg
1201139-10 GW0428 [Water] Sampled 01/24/2012 14:00 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/10/2012 14:00	15	07/22/2012 15:00	Fe & Mn

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1201139

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201139-11 GW0430 [Water] Sampled 01/24/2012 11:21 Mountain					
SW8011	SGC_EDB_8011	02/10/2012 14:00	15	02/07/2012 12:21	Run dilutions based on 8260 results!
E300.0	WC_ANIONS_300.0 (Regular)	02/10/2012 14:00	15	02/21/2012 12:21	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	02/10/2012 14:00	15	02/21/2012 12:21	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/10/2012 14:00	15	01/31/2012 12:21	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/10/2012 14:00	15	01/31/2012 12:21	requires 3-Methlphenol/4-Methylphenol/Napthalene
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/07/2012 12:21	Must report Naphthalene
SW6010B	MET_ICP_6010B_FULL	02/10/2012 14:00	15	07/22/2012 12:21	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	02/10/2012 14:00	15	02/07/2012 12:21	carb/bicarb
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/10/2012 14:00	15	02/21/2012 12:21	
SW8015B GR(	VGC_GRO_8015B	02/10/2012 14:00	15	02/07/2012 12:21	
SW8015B DR(	SGC_DRO_8015B_3510	02/10/2012 14:00	15	01/31/2012 12:21	
1201139-12 GW0430 [Water] Sampled 01/24/2012 11:21 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/10/2012 14:00	15	07/22/2012 12:21	Fe & Mn
1201139-13 GW8162-TB [Water] Sampled 01/24/2012 08:00 Mountain					
SW8260B	VOC_8260B_REG	02/10/2012 14:00	15	02/07/2012 09:00	Must report Naphthalene

Reviewed By

Date

WORK ORDER

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1201151

Empirical Laboratories, LLC

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

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

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

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

Date Due: 02/16/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright
Date Received: 01/26/2012 08:30

Logged In By: Benjamin C. Wright
Date Logged In: 01/26/2012 10:52

Samples Received at: **0°C**

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

Method	Test Code	Due	TAT	Expires	Comments

WORK ORDER

Printed: 2/14/2012 11:50:52AM

1201151

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201151-01 GW0404 [Water] Sampled 01/25/2012 14:41 Mountain					
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/13/2012 14:00	15	02/01/2012 15:41	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	02/13/2012 14:00	15	02/08/2012 15:41	Run dilutions based on 8260 results!
SW8015B DR(	SGC_DRO_8015B_3510	02/13/2012 14:00	15	02/01/2012 15:41	
SW8260B	VOC_8260B_REG	02/13/2012 14:00	15	02/08/2012 15:41	Must report naphthalene
SM2320B	WC_ALKALINITY_2320B	02/13/2012 14:00	15	02/08/2012 15:41	carb/bicarb
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/13/2012 14:00	15	02/22/2012 15:41	
E300.0	WC_ANIONS_300.0 (Regular)	02/13/2012 14:00	15	02/22/2012 15:41	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	02/13/2012 14:00	15	02/22/2012 15:41	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/13/2012 14:00	15	02/01/2012 15:41	
SW8015B GR(	VGC_GRO_8015B	02/13/2012 14:00	15	02/08/2012 15:41	
SW6010B	MET_ICP_6010B_FULL	02/13/2012 14:00	15	07/23/2012 15:41	Ca, Pb, K, Na, Mg
1201151-02 GW0404 [Water] Sampled 01/25/2012 14:41 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/13/2012 14:00	15	07/23/2012 15:41	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:50:52AM

1201151

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201151-03 GW0410 [Water] Sampled 01/24/2012 14:59 Mountain					
SW8015B DR(	SGC_DRO_8015B_3510	02/13/2012 14:00	15	01/31/2012 15:59	
SW8011	SGC_EDB_8011	02/13/2012 14:00	15	02/07/2012 15:59	Run dilutions based on 8260 results!
SW8015B GR(	VGC_GRO_8015B	02/13/2012 14:00	15	02/07/2012 15:59	
SW8260B	VOC_8260B_REG	02/13/2012 14:00	15	02/07/2012 15:59	Must report Naphthalene
SM2320B	WC_ALKALINITY_2320B	02/13/2012 14:00	15	02/07/2012 15:59	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	02/13/2012 14:00	15	01/31/2012 15:59	
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/13/2012 14:00	15	02/21/2012 15:59	
SW6010B	MET_ICP_6010B_FULL	02/13/2012 14:00	15	07/22/2012 15:59	Ca, Pb, K, Na, Mg
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/13/2012 14:00	15	01/31/2012 15:59	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E353.2	WC_NO3NO2_N_353.2	02/13/2012 14:00	15	02/21/2012 15:59	
E300.0	WC_ANIONS_300.0 (Regular)	02/13/2012 14:00	15	02/21/2012 15:59	Cl, SO4
1201151-04 GW0410 [Water] Sampled 01/24/2012 14:59 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/13/2012 14:00	15	07/22/2012 15:59	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:50:52AM

1201151

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1201151-05 GW0429 [Water] Sampled 01/25/2012 10:21 Mountain					
SW8260B	VOC_8260B_REG	02/13/2012 14:00	15	02/08/2012 11:21	Must report Naphthalene
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/13/2012 14:00	15	02/01/2012 11:21	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	02/13/2012 14:00	15	02/01/2012 11:21	
E353.2	WC_NO3NO2_N_353.2	02/13/2012 14:00	15	02/22/2012 11:21	
E300.0	WC_ANIONS_300.0 (Regular)	02/13/2012 14:00	15	02/22/2012 11:21	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	02/13/2012 14:00	15	02/08/2012 11:21	carb/bicarb
SW8015B GR(	VGC_GRO_8015B	02/13/2012 14:00	15	02/08/2012 11:21	
SW8011	SGC_EDB_8011	02/13/2012 14:00	15	02/08/2012 11:21	Run dilutions based on 8260 results!
SW8015B DR(	SGC_DRO_8015B_3510	02/13/2012 14:00	15	02/01/2012 11:21	
SW6010B	MET_ICP_6010B_FULL	02/13/2012 14:00	15	07/23/2012 11:21	Ca, Pb, K, Na, Mg
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/13/2012 14:00	15	02/22/2012 11:21	
1201151-06 GW0429 [Water] Sampled 01/25/2012 10:21 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/13/2012 14:00	15	07/23/2012 11:21	Fe & Mn
1201151-07 GW8163-TB [Water] Sampled 01/25/2012 08:00 Mountain					
SW8260B	VOC_8260B_REG	02/13/2012 14:00	15	02/08/2012 09:00	Must report Naphthalene

Reviewed By

Date

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

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

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

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

Date Due: 02/17/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright
Date Received: 01/27/2012 08:20

Logged In By: Benjamin C. Wright
Date Logged In: 01/27/2012 09:59

Samples Received at: **3.3°C**

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

Method	Test Code	Due	TAT	Expires	Comments

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201193-01 GW0466 [Water] Sampled 01/26/2012 13:52 Mountain					
SM4500S2CF	WC_SULFIDE_4500S2CF	02/14/2012 14:00	15	02/02/2012 14:52	
SW6010B	MET_ICP_6010B_FULL	02/14/2012 14:00	15	07/24/2012 14:52	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	02/14/2012 14:00	15	02/09/2012 14:52	Run dilutions based on 8260 results!
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/14/2012 14:00	15	02/02/2012 14:52	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GR(	VGC_GRO_8015B	02/14/2012 14:00	15	02/09/2012 14:52	
E353.2	WC_NO3NO2_N_353.2	02/14/2012 14:00	15	02/23/2012 14:52	
E300.0	WC_ANIONS_300.0 (Regular)	02/14/2012 14:00	15	02/23/2012 14:52	Cl, SO4
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/14/2012 14:00	15	02/23/2012 14:52	
SM2320B	WC_ALKALINITY_2320B	02/14/2012 14:00	15	02/09/2012 14:52	carb/bicarb
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/09/2012 14:52	naphthalene must be reported
SW8015B DR(	SGC_DRO_8015B_3510	02/14/2012 14:00	15	02/02/2012 14:52	
1201193-02 GW0466 [Water] Sampled 01/26/2012 13:52 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/14/2012 14:00	15	07/24/2012 14:52	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201193-03 GW0467 [Water] Sampled 01/26/2012 13:52 Mountain					
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/14/2012 14:00	15	02/23/2012 14:52	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/14/2012 14:00	15	02/02/2012 14:52	requires 3-Methlphenol/4-Methylphenol/Naphthalene
E353.2	WC_NO3NO2_N_353.2	02/14/2012 14:00	15	02/23/2012 14:52	
E300.0	WC_ANIONS_300.0 (Regular)	02/14/2012 14:00	15	02/23/2012 14:52	Cl, SO4
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/09/2012 14:52	naphthalene must be reported
SW6010B	MET_ICP_6010B_FULL	02/14/2012 14:00	15	07/24/2012 14:52	Ca, Pb, K, Na, Mg
SW8015B GR(	VGC_GRO_8015B	02/14/2012 14:00	15	02/09/2012 14:52	
SW8011	SGC_EDB_8011	02/14/2012 14:00	15	02/09/2012 14:52	Run dilutions based on 8260 results!
SW8015B DR(	SGC_DRO_8015B_3510	02/14/2012 14:00	15	02/02/2012 14:52	
SM2320B	WC_ALKALINITY_2320B	02/14/2012 14:00	15	02/09/2012 14:52	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	02/14/2012 14:00	15	02/02/2012 14:52	
1201193-04 GW0467 [Water] Sampled 01/26/2012 13:52 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/14/2012 14:00	15	07/24/2012 14:52	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201193-05 GW0468 [Water] Sampled 01/26/2012 11:32 Mountain					
SW8015B GR(	VGC_GRO_8015B	02/14/2012 14:00	15	02/09/2012 12:32	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/14/2012 14:00	15	02/02/2012 12:32	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	02/14/2012 14:00	15	02/02/2012 12:32	
E353.2	WC_NO3NO2_N_353.2	02/14/2012 14:00	15	02/23/2012 12:32	
E300.0	WC_ANIONS_300.0 (Regular)	02/14/2012 14:00	15	02/23/2012 12:32	Cl, SO4
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/14/2012 14:00	15	02/23/2012 12:32	
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/09/2012 12:32	naphthalene must be reported
SW8011	SGC_EDB_8011	02/14/2012 14:00	15	02/09/2012 12:32	Run dilutions based on 8260 results!
SW8015B DR(	SGC_DRO_8015B_3510	02/14/2012 14:00	15	02/02/2012 12:32	
SW6010B	MET_ICP_6010B_FULL	02/14/2012 14:00	15	07/24/2012 12:32	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	02/14/2012 14:00	15	02/09/2012 12:32	carb/bicarb
1201193-06 GW0468 [Water] Sampled 01/26/2012 11:32 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/14/2012 14:00	15	07/24/2012 12:32	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201193-07 GW0472 [Water] Sampled 01/26/2012 09:37 Mountain					
E300.0	WC_ANIONS_300.0 (Regular)	02/14/2012 14:00	15	02/23/2012 10:37	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	02/14/2012 14:00	15	07/24/2012 10:37	Ca, Pb, K, Na, Mg
SW8015B GR(	VGC_GRO_8015B	02/14/2012 14:00	15	02/09/2012 10:37	
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/14/2012 14:00	15	02/02/2012 10:37	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DR(	SGC_DRO_8015B_3510	02/14/2012 14:00	15	02/02/2012 10:37	
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/09/2012 10:37	naphthalene must be reported
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/14/2012 14:00	15	02/23/2012 10:37	
SW8011	SGC_EDB_8011	02/14/2012 14:00	15	02/09/2012 10:37	Run dilutions based on 8260 results!
E353.2	WC_NO3NO2_N_353.2	02/14/2012 14:00	15	02/23/2012 10:37	
SM2320B	WC_ALKALINITY_2320B	02/14/2012 14:00	15	02/09/2012 10:37	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	02/14/2012 14:00	15	02/02/2012 10:37	
1201193-08 GW0472 [Water] Sampled 01/26/2012 09:37 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/14/2012 14:00	15	07/24/2012 10:37	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1201193-09 GW0475 [Water] Sampled 01/26/2012 14:03 Mountain					
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/14/2012 14:00	15	02/02/2012 15:03	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	02/14/2012 14:00	15	02/02/2012 15:03	
E353.2	WC_NO3NO2_N_353.2	02/14/2012 14:00	15	02/23/2012 15:03	
E300.0	WC_ANIONS_300.0 (Regular)	02/14/2012 14:00	15	02/23/2012 15:03	Cl, SO4
SW6010B	MET_ICP_6010B_FULL	02/14/2012 14:00	15	07/24/2012 15:03	Ca, Pb, K, Na, Mg
SW8015B DR(	SGC_DRO_8015B_3510	02/14/2012 14:00	15	02/02/2012 15:03	
SM2320B	WC_ALKALINITY_2320B	02/14/2012 14:00	15	02/09/2012 15:03	carb/bicarb
SW8015B GR(	VGC_GRO_8015B	02/14/2012 14:00	15	02/09/2012 15:03	
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/09/2012 15:03	naphthalene must be reported
SW8011	SGC_EDB_8011	02/14/2012 14:00	15	02/09/2012 15:03	Run dilutions based on 8260 results!
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/14/2012 14:00	15	02/23/2012 15:03	
1201193-10 GW0475 [Water] Sampled 01/26/2012 14:03 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/14/2012 14:00	15	07/24/2012 15:03	Fe & Mn

WORK ORDER

Printed: 2/14/2012 11:45:27AM

1201193

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1201193-11 GW0493 [Water] Sampled 01/25/2012 15:47 Mountain					
E300.0	WC_ANIONS_300.0 (Regular)	02/14/2012 14:00	15	02/22/2012 16:47	Cl, SO4
SW8270C	ZZ_SMS_BNA_8270C_3510_REG	02/14/2012 14:00	15	02/01/2012 16:47	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM2320B	WC_ALKALINITY_2320B	02/14/2012 14:00	15	02/08/2012 16:47	carb/bicarb
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/08/2012 16:47	naphthalene must be reported
SW8015B GR(	VGC_GRO_8015B	02/14/2012 14:00	15	02/08/2012 16:47	
SM4500NH3B	WC_AMMONIA_PHENATE_4500NH	02/14/2012 14:00	15	02/22/2012 16:47	
E353.2	WC_NO3NO2_N_353.2	02/14/2012 14:00	15	02/22/2012 16:47	
SM4500S2CF	WC_SULFIDE_4500S2CF	02/14/2012 14:00	15	02/01/2012 16:47	
SW8015B DR(	SGC_DRO_8015B_3510	02/14/2012 14:00	15	02/01/2012 16:47	
SW6010B	MET_ICP_6010B_FULL	02/14/2012 14:00	15	07/23/2012 16:47	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	02/14/2012 14:00	15	02/08/2012 16:47	Run dilutions based on 8260 results!
1201193-12 GW0493 [Water] Sampled 01/25/2012 15:47 Mountain					
SW6010B	MET_ICP_6010B_FULL_DIS	02/14/2012 14:00	15	07/23/2012 16:47	Fe & Mn
1201193-13 GW8164-TB [Water] Sampled 01/26/2012 08:00 Mountain					
SW8260B	VOC_8260B_REG	02/14/2012 14:00	15	02/09/2012 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_041
MATRIX: Water

QC LEVEL: Level IV
Report Due: 2/14/2012 - 2/17/2012
Client Sample Count: 40

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	1/23/2012	1/24/2012	1201137-01	GW0375	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/23/2012	1/24/2012	1201137-02	GW0375						X					
Client Sample	1/23/2012	1/24/2012	1201137-03	GW0376	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.	MS/MSD.
Client Sample	1/23/2012	1/24/2012	1201137-04	GW0376						MS/MSD.					
Client Sample	1/23/2012	1/24/2012	1201137-05	GW0377	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/23/2012	1/24/2012	1201137-06	GW0377						X					
Client Sample	1/23/2012	1/24/2012	1201137-07	GW0397	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/23/2012	1/24/2012	1201137-08	GW0397						X					
Client Sample	1/23/2012	1/24/2012	1201137-09	GW0398	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/23/2012	1/24/2012	1201137-10	GW0398						X					
Trip Blank	1/23/2012	1/24/2012	1201137-11	GW8161-TB										X	
Client Sample	1/23/2012	1/25/2012	1201139-01	GW0378	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/23/2012	1/25/2012	1201139-02	GW0378						X					
Client Sample	1/24/2012	1/25/2012	1201139-03	GW0379	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/24/2012	1/25/2012	1201139-04	GW0379						X					
Client Sample	1/24/2012	1/25/2012	1201139-05	GW0380	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/24/2012	1/25/2012	1201139-06	GW0380						X					
Client Sample	1/23/2012	1/25/2012	1201139-07	GW0396	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/23/2012	1/25/2012	1201139-08	GW0396						X					
Client Sample	1/24/2012	1/25/2012	1201139-09	GW0428	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/24/2012	1/25/2012	1201139-10	GW0428						X					
Client Sample	1/24/2012	1/25/2012	1201139-11	GW0430	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/24/2012	1/25/2012	1201139-12	GW0430						X					
Trip Blank	1/24/2012	1/25/2012	1201139-13	GW8162-TB										X	
Client Sample	1/25/2012	1/26/2012	1201151-01	GW0404	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/25/2012	1/26/2012	1201151-02	GW0404						X					
Client Sample	1/24/2012	1/26/2012	1201151-03	GW0410	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/24/2012	1/26/2012	1201151-04	GW0410						X					
Client Sample	1/25/2012	1/26/2012	1201151-05	GW0429	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/25/2012	1/26/2012	1201151-06	GW0429						X					
Trip Blank	1/25/2012	1/26/2012	1201151-07	GW8163-TB										X	
Client Sample	1/26/2012	1/27/2012	1201193-01	GW0466	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/26/2012	1/27/2012	1201193-02	GW0466						X					
Client Sample	1/26/2012	1/27/2012	1201193-03	GW0467	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/26/2012	1/27/2012	1201193-04	GW0467						X					
Client Sample	1/26/2012	1/27/2012	1201193-05	GW0468	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/26/2012	1/27/2012	1201193-06	GW0468						X					
Client Sample	1/26/2012	1/27/2012	1201193-07	GW0472	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/26/2012	1/27/2012	1201193-08	GW0472						X					
Client Sample	1/26/2012	1/27/2012	1201193-09	GW0475	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/26/2012	1/27/2012	1201193-10	GW0475						X					
Client Sample	1/25/2012	1/27/2012	1201193-11	GW0493	X	X	X	X	X	X	X	X	X	X	X
Client Sample	1/25/2012	1/27/2012	1201193-12	GW0493						X					
Trip Blank	1/26/2012	1/27/2012	1201193-13	GW8164-TB										X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	0113701.D
Sampled:	01/23/12 09:12	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 10:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	0113701.D
Sampled:	01/23/12 09:12	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 10:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.80	103	75 - 120	
Dibromofluoromethane	30.00	32.49	108	85 - 115	
1,2-Dichloroethane-d4	30.00	32.44	108	70 - 120	
Toluene-d8	30.00	31.05	104	85 - 120	

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	0113703.D
Sampled:	01/23/12 12:46	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 10:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	0113703.D
Sampled:	01/23/12 12:46	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 10:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.35	101	75 - 120	
Dibromofluoromethane	30.00	32.43	108	85 - 115	
1,2-Dichloroethane-d4	30.00	33.24	111	70 - 120	
Toluene-d8	30.00	30.22	101	85 - 120	

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	0113705.D
Sampled:	01/23/12 11:16	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 11:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	0113705.D
Sampled:	01/23/12 11:16	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 11:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.50	98.3	75 - 120	
Dibromofluoromethane	30.00	32.77	109	85 - 115	
1,2-Dichloroethane-d4	30.00	32.83	109	70 - 120	
Toluene-d8	30.00	30.47	102	85 - 120	

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	0113707.D
Sampled:	01/23/12 13:48	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 16:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.01	2.50	5.00	10.0	X, J
71-43-2	Benzene	0.552	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	0.332	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	0.460	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.266	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.418	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	0113707.D
Sampled:	01/23/12 13:48	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 16:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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	3.41	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	0.455	0.250	0.500	1.00	J
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene	0.991	0.250	0.500	1.00	J
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.702	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	0.403	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.05	100	75 - 120	
Dibromofluoromethane	30.00	32.63	109	85 - 115	
1,2-Dichloroethane-d4	30.00	31.90	106	70 - 120	
Toluene-d8	30.00	30.97	103	85 - 120	

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	0113709.D
Sampled:	01/23/12 10:55	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 11:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	0.395	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	0.263	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	1.16	0.250	0.500	1.00	
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)	0.329	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	0113709.D
Sampled:	01/23/12 10:55	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 11:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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	7.75	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	0.773	0.250	0.500	1.00	J
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene	1.00	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.68	102	75 - 120	
Dibromofluoromethane	30.00	31.77	106	85 - 115	
1,2-Dichloroethane-d4	30.00	32.11	107	70 - 120	
Toluene-d8	30.00	29.51	98.4	85 - 120	

ANALYSIS DATA SHEET

GW8161-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-11	File ID:	0113711.D
Sampled:	01/23/12 08:00	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 09:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW8161-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-11	File ID:	0113711.D
Sampled:	01/23/12 08:00	Prepared:	01/25/12 00:00	Analyzed:	01/25/12 09:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.75	102	75 - 120	
Dibromofluoromethane	30.00	32.45	108	85 - 115	
1,2-Dichloroethane-d4	30.00	31.98	107	70 - 120	
Toluene-d8	30.00	29.51	98.4	85 - 120	

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	0113901.D
Sampled:	01/23/12 14:10	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 12:40
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	0113901.D
Sampled:	01/23/12 14:10	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 12:40
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.43	101	75 - 120	
Dibromofluoromethane	30.00	31.80	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.75	106	70 - 120	
Toluene-d8	30.00	29.96	99.9	85 - 120	

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	0113903.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 13:08
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	0113903.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 13:08
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.86	103	75 - 120	
Dibromofluoromethane	30.00	32.01	107	85 - 115	
1,2-Dichloroethane-d4	30.00	32.20	107	70 - 120	
Toluene-d8	30.00	30.21	101	85 - 120	

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	0113905.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 13:36
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	0113905.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 13:36
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.07	100	75 - 120	
Dibromofluoromethane	30.00	32.69	109	85 - 115	
1,2-Dichloroethane-d4	30.00	33.95	113	70 - 120	
Toluene-d8	30.00	30.72	102	85 - 120	

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	0113907.D
Sampled:	01/23/12 16:45	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 14:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	0.758	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, 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	0.519	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, 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)	1.47	0.250	0.500	1.00	
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	0.764	0.500	1.00	2.00	J
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	0113907.D
Sampled:	01/23/12 16:45	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 14:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	4.73	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene	0.663	0.250	0.500	1.00	J
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene	0.400	0.250	0.500	1.00	J
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	0.322	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	1.05	0.750	1.50	3.00	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.29	104	75 - 120	
Dibromofluoromethane	30.00	33.10	110	85 - 115	
1,2-Dichloroethane-d4	30.00	34.38	115	70 - 120	
Toluene-d8	30.00	32.12	107	85 - 120	

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09	File ID:	0113909.D
Sampled:	01/24/12 14:00	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 14:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09	File ID:	0113909.D
Sampled:	01/24/12 14:00	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 14:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.44	101	75 - 120	
Dibromofluoromethane	30.00	31.84	106	85 - 115	
1,2-Dichloroethane-d4	30.00	32.70	109	70 - 120	
Toluene-d8	30.00	30.50	102	85 - 120	

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11	File ID:	0113911.D
Sampled:	01/24/12 11:21	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 15:01
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11	File ID:	0113911.D
Sampled:	01/24/12 11:21	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 15:01
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.45	101	75 - 120	
Dibromofluoromethane	30.00	32.11	107	85 - 115	
1,2-Dichloroethane-d4	30.00	32.96	110	70 - 120	
Toluene-d8	30.00	30.50	102	85 - 120	

ANALYSIS DATA SHEET

GW8162-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-13	File ID:	0113913.D
Sampled:	01/24/12 08:00	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 11:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8162-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-13	File ID:	0113913.D
Sampled:	01/24/12 08:00	Prepared:	01/26/12 00:00	Analyzed:	01/26/12 11:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.96	99.9	75 - 120	
Dibromofluoromethane	30.00	32.63	109	85 - 115	
1,2-Dichloroethane-d4	30.00	33.13	110	70 - 120	
Toluene-d8	30.00	30.50	102	85 - 120	

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01	File ID:	0115101.D
Sampled:	01/25/12 14:41	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 16:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01	File ID:	0115101.D
Sampled:	01/25/12 14:41	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 16:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	33.25	111	85 - 115	
1,2-Dichloroethane-d4	30.00	33.59	112	70 - 120	
Toluene-d8	30.00	30.38	101	85 - 120	

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03	File ID:	0115103.D
Sampled:	01/24/12 14:59	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 16:34
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.32	2.50	5.00	10.0	X, J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.818	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:	Water	Laboratory ID:	1201151-03	File ID:	0115103.D
Sampled:	01/24/12 14:59	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 16:34
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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	0.320	0.250	0.500	1.00	J
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	3.03	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.343	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	0.901	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	3.99	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.66	102	75 - 120	
Dibromofluoromethane	30.00	32.37	108	85 - 115	
1,2-Dichloroethane-d4	30.00	32.38	108	70 - 120	
Toluene-d8	30.00	31.04	103	85 - 120	

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05	File ID:	0115105.D
Sampled:	01/25/12 10:21	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 17:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05	File ID:	0115105.D
Sampled:	01/25/12 10:21	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 17:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.62	102	75 - 120	
Dibromofluoromethane	30.00	32.97	110	85 - 115	
1,2-Dichloroethane-d4	30.00	33.60	112	70 - 120	
Toluene-d8	30.00	30.85	103	85 - 120	

ANALYSIS DATA SHEET

GW8163-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-07	File ID:	0115107.D
Sampled:	01/25/12 08:00	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 13:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW8163-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-07	File ID:	0115107.D
Sampled:	01/25/12 08:00	Prepared:	01/27/12 00:00	Analyzed:	01/27/12 13:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.17	101	75 - 120	
Dibromofluoromethane	30.00	32.43	108	85 - 115	
1,2-Dichloroethane-d4	30.00	31.90	106	70 - 120	
Toluene-d8	30.00	30.26	101	85 - 120	

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01RE1	File ID:	0119301R.D
Sampled:	01/26/12 13:52	Prepared:	01/31/12 00:00	Analyzed:	01/31/12 19:38
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.81	2.50	5.00	10.0	Q, X, J
71-43-2	Benzene	3.55	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene	0.843	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	1.14	0.250	0.500	1.00	
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	0.576	0.250	0.500	1.00	J
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)	0.251	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	1.98	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	2.49	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01RE1	File ID:	0119301R.D
Sampled:	01/26/12 13:52	Prepared:	01/31/12 00:00	Analyzed:	01/31/12 19:38
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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	16.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	2.56	0.250	0.500	1.00	
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	1.38	0.250	0.500	1.00	
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	7.72	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	16.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	46.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	116	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.64	98.8	75 - 120	
Dibromofluoromethane	30.00	30.85	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	30.87	103	85 - 120	

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	0119303.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 14:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.73	2.50	5.00	10.0	J
71-43-2	Benzene	3.76	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	0.948	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	1.38	0.250	0.500	1.00	
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	0.750	0.250	0.500	1.00	J
74-87-3	Chloromethane		0.250	0.500	1.00	Y, 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)	0.271	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	1.95	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	2.72	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	0119303.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 14:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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	18.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	2.99	0.250	0.500	1.00	
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	1.59	0.250	0.500	1.00	
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	8.85	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	17.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	124	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.54	98.5	75 - 120	
Dibromofluoromethane	30.00	31.60	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.21	101	70 - 120	
Toluene-d8	30.00	31.98	107	85 - 120	

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	0119305.D
Sampled:	01/26/12 11:32	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 12:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	0119305.D
Sampled:	01/26/12 11:32	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 12:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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	0.350	0.250	0.500	1.00	J
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		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	32.25	108	75 - 120	
Dibromofluoromethane	30.00	32.93	110	85 - 115	
1,2-Dichloroethane-d4	30.00	32.47	108	70 - 120	
Toluene-d8	30.00	31.27	104	85 - 120	

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	0119307.D
Sampled:	01/26/12 09:37	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 12:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	10.3	2.50	5.00	10.0	
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	Y, 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	Y, 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)	0.550	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	0119307.D
Sampled:	01/26/12 09:37	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 12:58
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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	0.513	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	1.00	U
108-10-1	4-Methyl-2-pentanone	3.73	1.25	2.50	5.00	J
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	0.631	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	2.08	0.750	1.50	3.00	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.73	106	75 - 120	
Dibromofluoromethane	30.00	32.46	108	85 - 115	
1,2-Dichloroethane-d4	30.00	31.73	106	70 - 120	
Toluene-d8	30.00	30.55	102	85 - 120	

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	0119309.D
Sampled:	01/26/12 14:03	Prepared:	01/31/12 00:00	Analyzed:	01/31/12 17:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	0119309.D
Sampled:	01/26/12 14:03	Prepared:	01/31/12 00:00	Analyzed:	01/31/12 17:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.76	99.2	75 - 120	
Dibromofluoromethane	30.00	32.77	109	85 - 115	
1,2-Dichloroethane-d4	30.00	33.47	112	70 - 120	
Toluene-d8	30.00	29.60	98.7	85 - 120	

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	0119311.D
Sampled:	01/25/12 15:47	Prepared:	01/31/12 00:00	Analyzed:	01/31/12 18:13
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	0119311.D
Sampled:	01/25/12 15:47	Prepared:	01/31/12 00:00	Analyzed:	01/31/12 18:13
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.59	102	75 - 120	
Dibromofluoromethane	30.00	33.25	111	85 - 115	
1,2-Dichloroethane-d4	30.00	32.39	108	70 - 120	
Toluene-d8	30.00	30.72	102	85 - 120	

ANALYSIS DATA SHEET

GW8164-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-13	File ID:	0119313.D
Sampled:	01/26/12 08:00	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 11:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

GW8164-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-13	File ID:	0119313.D
Sampled:	01/26/12 08:00	Prepared:	01/30/12 00:00	Analyzed:	01/30/12 11:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.77	103	75 - 120	
Dibromofluoromethane	30.00	32.16	107	85 - 115	
1,2-Dichloroethane-d4	30.00	32.80	109	70 - 120	
Toluene-d8	30.00	30.99	103	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02606	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A02606-CCV1) ug/L				Lab File ID: 0125CCV1.D		Analyzed: 01/25/12 07:29		
Bromofluorobenzene	30.00	106	80 - 120	12.246	12.246	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	80 - 120	6.933	6.933	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	80 - 120	7.425	7.425	0.0000	+/-1.000	
Toluene-d8	30.00	104	80 - 120	9.629	9.629	0.0000	+/-1.000	
LCS (2A25013-BS1) ug/L				Lab File ID: 0125LCS1.D		Analyzed: 01/25/12 08:04		
Bromofluorobenzene	30.00	105	75 - 120	12.25	12.246	0.0040	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.928	6.933	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.42	7.425	-0.0050	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.634	9.629	0.0050	+/-1.000	
Blank (2A25013-BLK1) ug/L				Lab File ID: 0125BLK1.D		Analyzed: 01/25/12 09:29		
Bromofluorobenzene	30.00	102	75 - 120	12.25	12.246	0.0040	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.928	6.933	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.43	7.425	0.0050	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.633	9.629	0.0040	+/-1.000	
GW8161-TB (1201137-11) ug/L				Lab File ID: 0113711.D		Analyzed: 01/25/12 09:58		
Bromofluorobenzene	30.00	102	75 - 120	12.251	12.246	0.0050	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.929	6.933	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.421	7.425	-0.0040	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	9.634	9.629	0.0050	+/-1.000	
GW0375 (1201137-01) ug/L				Lab File ID: 0113701.D		Analyzed: 01/25/12 10:26		
Bromofluorobenzene	30.00	103	75 - 120	12.245	12.246	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.933	6.933	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.424	7.425	-0.0010	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.628	9.629	-0.0010	+/-1.000	
GW0376 (1201137-03) ug/L				Lab File ID: 0113703.D		Analyzed: 01/25/12 10:54		
Bromofluorobenzene	30.00	101	75 - 120	12.247	12.246	0.0010	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.935	6.933	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	111	70 - 120	7.427	7.425	0.0020	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.63	9.629	0.0010	+/-1.000	
GW0377 (1201137-05) ug/L				Lab File ID: 0113705.D		Analyzed: 01/25/12 11:23		
Bromofluorobenzene	30.00	98.3	75 - 120	12.247	12.246	0.0010	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.934	6.933	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	7.426	7.425	0.0010	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.63	9.629	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02606	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0398 (1201137-09) ug/L				Lab File ID: 0113709.D		Analyzed: 01/25/12 11:51		
Bromofluorobenzene	30.00	102	75 - 120	12.247	12.246	0.0010	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.935	6.933	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.427	7.425	0.0020	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	9.63	9.629	0.0010	+/-1.000	
GW0397 (1201137-07) ug/L				Lab File ID: 0113707.D		Analyzed: 01/25/12 16:33		
Bromofluorobenzene	30.00	100	75 - 120	12.251	12.246	0.0050	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.938	6.933	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.43	7.425	0.0050	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.634	9.629	0.0050	+/-1.000	
Matrix Spike (2A25013-MS2) ug/L				Lab File ID: 0113703M.D		Analyzed: 01/25/12 18:26		
Bromofluorobenzene	30.00	107	75 - 120	12.252	12.246	0.0060	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	6.94	6.933	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.432	7.425	0.0070	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.635	9.629	0.0060	+/-1.000	
Matrix Spike Dup (2A25013-MSD2) ug/L				Lab File ID: 0113703S.D		Analyzed: 01/25/12 18:54		
Bromofluorobenzene	30.00	106	75 - 120	12.256	12.246	0.0100	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.934	6.933	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.426	7.425	0.0010	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.639	9.629	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02704	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A02704-CCV1) ug/L				Lab File ID: 0126CCV1.D		Analyzed: 01/26/12 08:26		
Bromofluorobenzene	30.00	111	80 - 120	12.261	12.261	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	6.949	6.949	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	80 - 120	7.441	7.441	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.644	9.644	0.0000	+/-1.000	
LCS (2A26010-BS1) ug/L				Lab File ID: 0126LCS1.D		Analyzed: 01/26/12 08:54		
Bromofluorobenzene	30.00	109	75 - 120	12.261	12.261	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.948	6.949	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.44	7.441	-0.0010	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.644	9.644	0.0000	+/-1.000	
Blank (2A26010-BLK1) ug/L				Lab File ID: 0126BLK1.D		Analyzed: 01/26/12 10:19		
Bromofluorobenzene	30.00	99.7	75 - 120	12.261	12.261	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.949	6.949	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.44	7.441	-0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.644	9.644	0.0000	+/-1.000	
GW8162-TB (1201139-13) ug/L				Lab File ID: 0113913.D		Analyzed: 01/26/12 11:43		
Bromofluorobenzene	30.00	99.9	75 - 120	12.267	12.261	0.0060	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.945	6.949	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.437	7.441	-0.0040	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.65	9.644	0.0060	+/-1.000	
GW0378 (1201139-01) ug/L				Lab File ID: 0113901.D		Analyzed: 01/26/12 12:40		
Bromofluorobenzene	30.00	101	75 - 120	12.267	12.261	0.0060	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.945	6.949	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.447	7.441	0.0060	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	9.65	9.644	0.0060	+/-1.000	
GW0379 (1201139-03) ug/L				Lab File ID: 0113903.D		Analyzed: 01/26/12 13:08		
Bromofluorobenzene	30.00	103	75 - 120	12.267	12.261	0.0060	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	6.954	6.949	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.446	7.441	0.0050	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.65	9.644	0.0060	+/-1.000	
GW0380 (1201139-05) ug/L				Lab File ID: 0113905.D		Analyzed: 01/26/12 13:36		
Bromofluorobenzene	30.00	100	75 - 120	12.261	12.261	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.949	6.949	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	113	70 - 120	7.441	7.441	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.654	9.644	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02704	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0396 (1201139-07) ug/L				Lab File ID: 0113907.D		Analyzed: 01/26/12 14:05		
Bromofluorobenzene	30.00	104	75 - 120	12.271	12.261	0.0100	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.949	6.949	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	115	70 - 120	7.441	7.441	0.0000	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.654	9.644	0.0100	+/-1.000	
GW0428 (1201139-09) ug/L				Lab File ID: 0113909.D		Analyzed: 01/26/12 14:33		
Bromofluorobenzene	30.00	101	75 - 120	12.27	12.261	0.0090	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.948	6.949	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	7.449	7.441	0.0080	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.653	9.644	0.0090	+/-1.000	
GW0430 (1201139-11) ug/L				Lab File ID: 0113911.D		Analyzed: 01/26/12 15:01		
Bromofluorobenzene	30.00	101	75 - 120	12.271	12.261	0.0100	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	6.949	6.949	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	7.45	7.441	0.0090	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.654	9.644	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03011	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A03011-CCV1) ug/L				Lab File ID: 0127CCV1.D		Analyzed: 01/27/12 09:23		
Bromofluorobenzene	30.00	104	80 - 120	12.254	12.254	0.0000	+/-1.000	
Dibromofluoromethane	30.00	110	80 - 120	6.942	6.942	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	113	80 - 120	7.434	7.434	0.0000	+/-1.000	
Toluene-d8	30.00	104	80 - 120	9.637	9.637	0.0000	+/-1.000	
LCS (2A27019-BS1) ug/L				Lab File ID: 0127LCS1.D		Analyzed: 01/27/12 09:59		
Bromofluorobenzene	30.00	111	75 - 120	12.251	12.254	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.939	6.942	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.431	7.434	-0.0030	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.634	9.637	-0.0030	+/-1.000	
Blank (2A27019-BLK1) ug/L				Lab File ID: 0127BLK1.D		Analyzed: 01/27/12 11:24		
Bromofluorobenzene	30.00	102	75 - 120	12.253	12.254	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.94	6.942	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.432	7.434	-0.0020	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.636	9.637	-0.0010	+/-1.000	
GW8163-TB (1201151-07) ug/L				Lab File ID: 0115107.D		Analyzed: 01/27/12 13:16		
Bromofluorobenzene	30.00	101	75 - 120	12.253	12.254	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.941	6.942	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.433	7.434	-0.0010	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.636	9.637	-0.0010	+/-1.000	
GW0404 (1201151-01) ug/L				Lab File ID: 0115101.D		Analyzed: 01/27/12 16:06		
Bromofluorobenzene	30.00	102	75 - 120	12.255	12.254	0.0010	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	6.933	6.942	-0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	112	70 - 120	7.434	7.434	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.638	9.637	0.0010	+/-1.000	
GW0410 (1201151-03) ug/L				Lab File ID: 0115103.D		Analyzed: 01/27/12 16:34		
Bromofluorobenzene	30.00	102	75 - 120	12.248	12.254	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.935	6.942	-0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.427	7.434	-0.0070	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.641	9.637	0.0040	+/-1.000	
GW0429 (1201151-05) ug/L				Lab File ID: 0115105.D		Analyzed: 01/27/12 17:02		
Bromofluorobenzene	30.00	102	75 - 120	12.25	12.254	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.938	6.942	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	112	70 - 120	7.43	7.434	-0.0040	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.634	9.637	-0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03011	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (2A27019-BSD1) ug/L				Lab File ID: 0127LCD1.D		Analyzed: 01/27/12 19:52		
Bromofluorobenzene	30.00	108	75 - 120	12.253	12.254	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.941	6.942	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.433	7.434	-0.0010	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.636	9.637	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03101	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A03101-CCV1) ug/L				Lab File ID: 0130CCV1.D		Analyzed: 01/30/12 08:44		
Bromofluorobenzene	30.00	109	80 - 120	12.242	12.242	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	80 - 120	6.93	6.93	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	112	80 - 120	7.422	7.422	0.0000	+/-1.000	
Toluene-d8	30.00	106	80 - 120	9.625	9.625	0.0000	+/-1.000	
LCS (2A30013-BS1) ug/L				Lab File ID: 0130LCS1.D		Analyzed: 01/30/12 09:12		
Bromofluorobenzene	30.00	107	75 - 120	12.241	12.242	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.929	6.93	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.421	7.422	-0.0010	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.624	9.625	-0.0010	+/-1.000	
Blank (2A30013-BLK1) ug/L				Lab File ID: 0130BLK1.D		Analyzed: 01/30/12 10:37		
Bromofluorobenzene	30.00	104	75 - 120	12.247	12.242	0.0050	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.925	6.93	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.417	7.422	-0.0050	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.621	9.625	-0.0040	+/-1.000	
GW8164-TB (1201193-13) ug/L				Lab File ID: 0119313.D		Analyzed: 01/30/12 11:33		
Bromofluorobenzene	30.00	103	75 - 120	12.241	12.242	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	6.929	6.93	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	7.42	7.422	-0.0020	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.624	9.625	-0.0010	+/-1.000	
GW0468 (1201193-05) ug/L				Lab File ID: 0119305.D		Analyzed: 01/30/12 12:30		
Bromofluorobenzene	30.00	108	75 - 120	12.247	12.242	0.0050	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.925	6.93	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.426	7.422	0.0040	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.63	9.625	0.0050	+/-1.000	
GW0472 (1201193-07) ug/L				Lab File ID: 0119307.D		Analyzed: 01/30/12 12:58		
Bromofluorobenzene	30.00	106	75 - 120	12.247	12.242	0.0050	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.925	6.93	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.417	7.422	-0.0050	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.631	9.625	0.0060	+/-1.000	
GW0467 (1201193-03) ug/L				Lab File ID: 0119303.D		Analyzed: 01/30/12 14:23		
Bromofluorobenzene	30.00	98.5	75 - 120	12.252	12.242	0.0100	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.93	6.93	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.421	7.422	-0.0010	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.635	9.625	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03201	Instrument:	MS-VOA4
		Calibration:	2011004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B03201-CCV1) ug/L				Lab File ID: 0131CCV1.D		Analyzed: 01/31/12 11:15		
Bromofluorobenzene	30.00	108	80 - 120	12.25	12.25	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	6.938	6.938	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	80 - 120	7.429	7.429	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.633	9.633	0.0000	+/-1.000	
LCS (2A31015-BS1) ug/L				Lab File ID: 0131LCS1.D		Analyzed: 01/31/12 11:53		
Bromofluorobenzene	30.00	107	75 - 120	12.253	12.25	0.0030	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.931	6.938	-0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.423	7.429	-0.0060	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.636	9.633	0.0030	+/-1.000	
Blank (2A31015-BLK1) ug/L				Lab File ID: 0131BLK1.D		Analyzed: 01/31/12 15:24		
Bromofluorobenzene	30.00	102	75 - 120	12.252	12.25	0.0020	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.94	6.938	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.431	7.429	0.0020	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.635	9.633	0.0020	+/-1.000	
GW0475 (1201193-09) ug/L				Lab File ID: 0119309.D		Analyzed: 01/31/12 17:45		
Bromofluorobenzene	30.00	99.2	75 - 120	12.254	12.25	0.0040	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.932	6.938	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	112	70 - 120	7.424	7.429	-0.0050	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	9.638	9.633	0.0050	+/-1.000	
GW0493 (1201193-11) ug/L				Lab File ID: 0119311.D		Analyzed: 01/31/12 18:13		
Bromofluorobenzene	30.00	102	75 - 120	12.255	12.25	0.0050	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	6.932	6.938	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	7.424	7.429	-0.0050	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.638	9.633	0.0050	+/-1.000	
GW0466 (1201193-01RE1) ug/L				Lab File ID: 0119301R.D		Analyzed: 01/31/12 19:38		
Bromofluorobenzene	30.00	98.8	75 - 120	12.252	12.25	0.0020	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.93	6.938	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.432	7.429	0.0030	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.635	9.633	0.0020	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A25013	Laboratory ID:	2A25013-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	88.2	88.2	40 - 140
Benzene	50.00	50.3	101	80 - 120
Bromobenzene	50.00	49.4	98.8	75 - 125
Bromochloromethane	50.00	50.8	102	65 - 130
Bromodichloromethane	50.00	46.4	92.7	75 - 120
Bromoform	50.00	52.6	105	70 - 130
Bromomethane	50.00	46.1	92.1	30 - 145
n-Butylbenzene	50.00	50.5	101	70 - 135
2-Butanone	100.0	86.1	86.1	30 - 150
sec-Butylbenzene	50.00	49.4	98.9	70 - 125
tert-Butylbenzene	50.00	48.2	96.4	70 - 130
Carbon disulfide	50.00	42.7	85.4	35 - 160
Carbon tetrachloride	50.00	50.5	101	65 - 140
Chlorobenzene	50.00	48.9	97.8	80 - 120
Chloroethane	50.00	53.9	108	60 - 135
Chloroform	50.00	45.8	91.5	65 - 135
Chloromethane	50.00	46.2	92.3	40 - 125
2-Chlorotoluene	50.00	46.8	93.6	75 - 125
4-Chlorotoluene	50.00	47.5	95.1	75 - 130
Dibromochloromethane	50.00	49.4	98.8	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.9	99.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	48.3	96.7	80 - 120
Dibromomethane	50.00	48.9	97.7	75 - 125
1,2-Dichlorobenzene	50.00	49.4	98.7	70 - 120
1,3-Dichlorobenzene	50.00	47.7	95.4	75 - 125
1,4-Dichlorobenzene	50.00	50.2	100	75 - 125
Dichlorodifluoromethane	50.00	47.2	94.3	30 - 155
1,1-Dichloroethane	50.00	48.5	97.0	70 - 135
1,2-Dichloroethane	50.00	45.8	91.5	70 - 130
1,1-Dichloroethene	50.00	46.8	93.5	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A25013	Laboratory ID:	2A25013-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	49.3	98.7	70 - 125
trans-1,2-Dichloroethene	50.00	51.5	103	60 - 140
1,2-Dichloropropane	50.00	49.1	98.2	75 - 125
1,3-Dichloropropane	50.00	49.6	99.2	75 - 125
2,2-Dichloropropane	50.00	48.1	96.2	70 - 135
1,1-Dichloropropene	50.00	48.1	96.1	75 - 130
cis-1,3-Dichloropropene	50.00	51.9	104	70 - 130
trans-1,3-Dichloropropene	50.00	43.1	86.1	55 - 140
Ethylbenzene	50.00	49.7	99.4	75 - 125
Hexachlorobutadiene	50.00	49.6	99.1	50 - 140
2-Hexanone	100.0	88.5	88.5	55 - 130
Isopropylbenzene	50.00	44.7	89.5	75 - 125
p-Isopropyltoluene	50.00	47.1	94.2	75 - 130
Methylene chloride	50.00	47.7	95.5	55 - 140
Naphthalene	50.00	52.6	105	55 - 140
4-Methyl-2-pentanone	100.0	93.1	93.1	60 - 135
Methyl t-Butyl Ether	50.00	49.0	97.9	65 - 125
n-Propylbenzene	50.00	48.2	96.3	70 - 130
Styrene	50.00	49.7	99.4	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.7	99.4	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.5	101	80 - 130
Tetrachloroethene	50.00	48.2	96.4	45 - 150
Toluene	50.00	49.1	98.2	75 - 120
1,2,3-Trichlorobenzene	50.00	48.3	96.5	55 - 140
1,2,4-Trichlorobenzene	50.00	49.4	98.9	65 - 135
1,1,2-Trichloroethane	50.00	50.2	100	75 - 125
1,1,1-Trichloroethane	50.00	47.6	95.3	65 - 130
Trichloroethene	50.00	49.1	98.1	70 - 125
Trichlorofluoromethane	50.00	49.6	99.2	60 - 145
1,2,3-Trichloropropane	50.00	49.6	99.3	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A25013	Laboratory ID:	2A25013-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	49.3	98.7	75 - 130
1,2,4-Trimethylbenzene	50.00	48.9	97.8	75 - 130
Vinyl chloride	50.00	57.9	116	50 - 145
Xylenes (total)	150.0	140	93.4	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26010	Laboratory ID:	2A26010-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	113	113	40 - 140
Benzene	50.00	50.3	101	80 - 120
Bromobenzene	50.00	48.7	97.4	75 - 125
Bromochloromethane	50.00	50.1	100	65 - 130
Bromodichloromethane	50.00	46.8	93.5	75 - 120
Bromoform	50.00	53.4	107	70 - 130
Bromomethane	50.00	34.8	69.6	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	91.6	91.6	30 - 150
sec-Butylbenzene	50.00	49.1	98.2	70 - 125
tert-Butylbenzene	50.00	47.7	95.4	70 - 130
Carbon disulfide	50.00	42.6	85.3	35 - 160
Carbon tetrachloride	50.00	50.9	102	65 - 140
Chlorobenzene	50.00	50.1	100	80 - 120
Chloroethane	50.00	55.4	111	60 - 135
Chloroform	50.00	45.3	90.7	65 - 135
Chloromethane	50.00	33.2	66.3	40 - 125
2-Chlorotoluene	50.00	47.4	94.9	75 - 125
4-Chlorotoluene	50.00	47.0	93.9	75 - 130
Dibromochloromethane	50.00	50.7	101	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.0	100	50 - 130
1,2-Dibromoethane (EDB)	50.00	48.8	97.6	80 - 120
Dibromomethane	50.00	49.4	98.9	75 - 125
1,2-Dichlorobenzene	50.00	49.7	99.4	70 - 120
1,3-Dichlorobenzene	50.00	47.5	95.0	75 - 125
1,4-Dichlorobenzene	50.00	50.3	101	75 - 125
Dichlorodifluoromethane	50.00	47.6	95.2	30 - 155
1,1-Dichloroethane	50.00	49.0	98.0	70 - 135
1,2-Dichloroethane	50.00	45.5	91.0	70 - 130
1,1-Dichloroethene	50.00	45.3	90.6	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26010	Laboratory ID:	2A26010-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	49.9	99.8	70 - 125
trans-1,2-Dichloroethene	50.00	50.7	101	60 - 140
1,2-Dichloropropane	50.00	47.5	95.1	75 - 125
1,3-Dichloropropane	50.00	51.3	103	75 - 125
2,2-Dichloropropane	50.00	47.0	94.0	70 - 135
1,1-Dichloropropene	50.00	49.2	98.4	75 - 130
cis-1,3-Dichloropropene	50.00	50.2	100	70 - 130
trans-1,3-Dichloropropene	50.00	43.4	86.7	55 - 140
Ethylbenzene	50.00	49.5	99.0	75 - 125
Hexachlorobutadiene	50.00	50.4	101	50 - 140
2-Hexanone	100.0	91.5	91.5	55 - 130
Isopropylbenzene	50.00	46.6	93.2	75 - 125
p-Isopropyltoluene	50.00	47.5	95.0	75 - 130
Methylene chloride	50.00	48.0	95.9	55 - 140
Naphthalene	50.00	53.0	106	55 - 140
4-Methyl-2-pentanone	100.0	90.1	90.1	60 - 135
Methyl t-Butyl Ether	50.00	46.7	93.3	65 - 125
n-Propylbenzene	50.00	47.7	95.4	70 - 130
Styrene	50.00	49.7	99.4	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.4	101	65 - 130
1,1,1,2-Tetrachloroethane	50.00	47.1	94.2	80 - 130
Tetrachloroethene	50.00	50.9	102	45 - 150
Toluene	50.00	49.9	99.7	75 - 120
1,2,3-Trichlorobenzene	50.00	49.8	99.5	55 - 140
1,2,4-Trichlorobenzene	50.00	49.9	99.9	65 - 135
1,1,2-Trichloroethane	50.00	51.5	103	75 - 125
1,1,1-Trichloroethane	50.00	48.7	97.4	65 - 130
Trichloroethene	50.00	48.7	97.3	70 - 125
Trichlorofluoromethane	50.00	50.7	101	60 - 145
1,2,3-Trichloropropane	50.00	49.2	98.5	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26010	Laboratory ID:	2A26010-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	48.4	96.8	75 - 130
1,2,4-Trimethylbenzene	50.00	48.5	97.0	75 - 130
Vinyl chloride	50.00	57.9	116	50 - 145
Xylenes (total)	150.0	148	98.6	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27019	Laboratory ID:	2A27019-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	95.4	95.4	40 - 140
Benzene	50.00	51.0	102	80 - 120
Bromobenzene	50.00	51.8	104	75 - 125
Bromochloromethane	50.00	52.8	106	65 - 130
Bromodichloromethane	50.00	48.5	97.0	75 - 120
Bromoform	50.00	56.1	112	70 - 130
Bromomethane	50.00	43.6	87.1	30 - 145
n-Butylbenzene	50.00	48.7	97.3	70 - 135
2-Butanone	100.0	85.8	85.8	30 - 150
sec-Butylbenzene	50.00	50.7	101	70 - 125
tert-Butylbenzene	50.00	49.8	99.6	70 - 130
Carbon disulfide	50.00	43.4	86.9	35 - 160
Carbon tetrachloride	50.00	51.3	103	65 - 140
Chlorobenzene	50.00	52.7	105	80 - 120
Chloroethane	50.00	56.6	113	60 - 135
Chloroform	50.00	47.5	95.0	65 - 135
Chloromethane	50.00	38.0	76.0	40 - 125
2-Chlorotoluene	50.00	49.8	99.6	75 - 125
4-Chlorotoluene	50.00	48.9	97.7	75 - 130
Dibromochloromethane	50.00	52.2	104	60 - 135
1,2-Dibromo-3-chloropropane	50.00	52.2	104	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.3	103	80 - 120
Dibromomethane	50.00	50.1	100	75 - 125
1,2-Dichlorobenzene	50.00	51.9	104	70 - 120
1,3-Dichlorobenzene	50.00	50.3	101	75 - 125
1,4-Dichlorobenzene	50.00	51.9	104	75 - 125
Dichlorodifluoromethane	50.00	45.7	91.3	30 - 155
1,1-Dichloroethane	50.00	51.2	102	70 - 135
1,2-Dichloroethane	50.00	47.7	95.5	70 - 130
1,1-Dichloroethene	50.00	47.5	95.0	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27019	Laboratory ID:	2A27019-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	52.0	104	70 - 125
trans-1,2-Dichloroethene	50.00	51.6	103	60 - 140
1,2-Dichloropropane	50.00	50.5	101	75 - 125
1,3-Dichloropropane	50.00	52.3	105	75 - 125
2,2-Dichloropropane	50.00	49.3	98.5	70 - 135
1,1-Dichloropropene	50.00	50.3	101	75 - 130
cis-1,3-Dichloropropene	50.00	52.9	106	70 - 130
trans-1,3-Dichloropropene	50.00	45.0	90.0	55 - 140
Ethylbenzene	50.00	51.3	103	75 - 125
Hexachlorobutadiene	50.00	52.2	104	50 - 140
2-Hexanone	100.0	89.6	89.6	55 - 130
Isopropylbenzene	50.00	48.5	97.1	75 - 125
p-Isopropyltoluene	50.00	49.3	98.7	75 - 130
Methylene chloride	50.00	49.7	99.3	55 - 140
Naphthalene	50.00	54.1	108	55 - 140
4-Methyl-2-pentanone	100.0	89.3	89.3	60 - 135
Methyl t-Butyl Ether	50.00	48.0	95.9	65 - 125
n-Propylbenzene	50.00	51.1	102	70 - 130
Styrene	50.00	53.7	107	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.1	100	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.2	110	80 - 130
Tetrachloroethene	50.00	54.0	108	45 - 150
Toluene	50.00	51.3	103	75 - 120
1,2,3-Trichlorobenzene	50.00	52.3	105	55 - 140
1,2,4-Trichlorobenzene	50.00	54.5	109	65 - 135
1,1,2-Trichloroethane	50.00	53.6	107	75 - 125
1,1,1-Trichloroethane	50.00	49.3	98.5	65 - 130
Trichloroethene	50.00	52.1	104	70 - 125
Trichlorofluoromethane	50.00	52.0	104	60 - 145
1,2,3-Trichloropropane	50.00	51.5	103	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27019	Laboratory ID:	2A27019-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.2	104	75 - 130
1,2,4-Trimethylbenzene	50.00	51.2	102	75 - 130
Vinyl chloride	50.00	57.3	115	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	96.0	96.0	0.576	30	40 - 140
Benzene	50.00	53.1	106	4.00	30	80 - 120
Bromobenzene	50.00	50.5	101	2.53	30	75 - 125
Bromochloromethane	50.00	55.0	110	4.00	30	65 - 130
Bromodichloromethane	50.00	50.2	100	3.50	30	75 - 120
Bromoform	50.00	58.1	116	3.42	30	70 - 130
Bromomethane	50.00	36.0	72.0	19.1	30	30 - 145
n-Butylbenzene	50.00	51.5	103	5.55	30	70 - 135
2-Butanone	100.0	89.1	89.1	3.83	30	30 - 150
sec-Butylbenzene	50.00	48.6	97.1	4.25	30	70 - 125
tert-Butylbenzene	50.00	50.1	100	0.700	30	70 - 130
Carbon disulfide	50.00	42.0	84.1	3.25	30	35 - 160
Carbon tetrachloride	50.00	52.5	105	2.20	30	65 - 140
Chlorobenzene	50.00	50.8	102	3.59	30	80 - 120
Chloroethane	50.00	53.3	107	5.88	30	60 - 135
Chloroform	50.00	48.2	96.3	1.38	30	65 - 135
Chloromethane	50.00	33.3	66.7	13.0	30	40 - 125
2-Chlorotoluene	50.00	49.9	99.8	0.189	30	75 - 125
4-Chlorotoluene	50.00	49.9	99.7	2.03	30	75 - 130
Dibromochloromethane	50.00	53.4	107	2.37	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	55.0	110	5.15	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.9	104	1.22	30	80 - 120
Dibromomethane	50.00	52.1	104	3.78	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27019	Laboratory ID:	2A27019-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	52.3	105	0.841	30	70 - 120
1,3-Dichlorobenzene	50.00	49.5	98.9	1.63	30	75 - 125
1,4-Dichlorobenzene	50.00	51.6	103	0.554	30	75 - 125
Dichlorodifluoromethane	50.00	46.1	92.2	0.960	30	30 - 155
1,1-Dichloroethane	50.00	49.7	99.4	3.00	30	70 - 135
1,2-Dichloroethane	50.00	50.0	100	4.69	30	70 - 130
1,1-Dichloroethene	50.00	47.8	95.7	0.693	30	70 - 130
cis-1,2-Dichloroethene	50.00	52.8	106	1.45	30	70 - 125
trans-1,2-Dichloroethene	50.00	50.8	102	1.55	30	60 - 140
1,2-Dichloropropane	50.00	51.2	102	1.34	30	75 - 125
1,3-Dichloropropane	50.00	53.9	108	2.98	30	75 - 125
2,2-Dichloropropane	50.00	43.5	87.1	12.4	30	70 - 135
1,1-Dichloropropene	50.00	50.6	101	0.676	30	75 - 130
cis-1,3-Dichloropropene	50.00	53.2	106	0.492	30	70 - 130
trans-1,3-Dichloropropene	50.00	44.1	88.3	1.98	30	55 - 140
Ethylbenzene	50.00	51.3	103	0.0138	30	75 - 125
Hexachlorobutadiene	50.00	48.3	96.6	7.79	30	50 - 140
2-Hexanone	100.0	94.9	94.9	5.73	30	55 - 130
Isopropylbenzene	50.00	47.7	95.4	1.76	30	75 - 125
p-Isopropyltoluene	50.00	47.6	95.3	3.54	30	75 - 130
Methylene chloride	50.00	49.5	99.0	0.282	30	55 - 140
Naphthalene	50.00	56.3	113	4.01	30	55 - 140
4-Methyl-2-pentanone	100.0	98.2	98.2	9.43	30	60 - 135
Methyl t-Butyl Ether	50.00	48.5	97.0	1.10	30	65 - 125
n-Propylbenzene	50.00	50.4	101	1.55	30	70 - 130
Styrene	50.00	50.8	102	5.49	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.3	105	4.28	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.2	106	3.66	30	80 - 130
Tetrachloroethene	50.00	50.0	100	7.67	30	45 - 150
Toluene	50.00	50.2	100	2.20	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27019	Laboratory ID:	2A27019-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	52.1	104	0.465	30	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	2.81	30	65 - 135
1,1,2-Trichloroethane	50.00	55.1	110	2.60	30	75 - 125
1,1,1-Trichloroethane	50.00	49.7	99.4	0.831	30	65 - 130
Trichloroethene	50.00	51.2	102	1.87	30	70 - 125
Trichlorofluoromethane	50.00	51.1	102	1.65	30	60 - 145
1,2,3-Trichloropropane	50.00	51.3	103	0.445	30	75 - 125
1,3,5-Trimethylbenzene	50.00	51.0	102	2.26	30	75 - 130
1,2,4-Trimethylbenzene	50.00	51.5	103	0.567	30	75 - 130
Vinyl chloride	50.00	57.6	115	0.488	30	50 - 145
Xylenes (total)	150.0	148	98.5	2.41	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30013	Laboratory ID:	2A30013-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	91.8	91.8	40 - 140
Benzene	50.00	51.0	102	80 - 120
Bromobenzene	50.00	50.4	101	75 - 125
Bromochloromethane	50.00	51.9	104	65 - 130
Bromodichloromethane	50.00	46.7	93.5	75 - 120
Bromoform	50.00	55.0	110	70 - 130
Bromomethane	50.00	36.5	72.9	30 - 145
n-Butylbenzene	50.00	52.4	105	70 - 135
2-Butanone	100.0	85.7	85.7	30 - 150
sec-Butylbenzene	50.00	48.5	96.9	70 - 125
tert-Butylbenzene	50.00	50.0	100	70 - 130
Carbon disulfide	50.00	43.4	86.7	35 - 160
Carbon tetrachloride	50.00	52.9	106	65 - 140
Chlorobenzene	50.00	49.7	99.4	80 - 120
Chloroethane	50.00	54.7	109	60 - 135
Chloroform	50.00	46.0	92.0	65 - 135
Chloromethane	50.00	36.0	72.1	40 - 125
2-Chlorotoluene	50.00	47.6	95.1	75 - 125
4-Chlorotoluene	50.00	49.0	98.1	75 - 130
Dibromochloromethane	50.00	50.7	101	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.5	99.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.7	99.4	80 - 120
Dibromomethane	50.00	50.4	101	75 - 125
1,2-Dichlorobenzene	50.00	50.9	102	70 - 120
1,3-Dichlorobenzene	50.00	49.3	98.7	75 - 125
1,4-Dichlorobenzene	50.00	51.1	102	75 - 125
Dichlorodifluoromethane	50.00	46.6	93.2	30 - 155
1,1-Dichloroethane	50.00	47.8	95.5	70 - 135
1,2-Dichloroethane	50.00	45.8	91.6	70 - 130
1,1-Dichloroethene	50.00	47.8	95.6	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30013	Laboratory ID:	2A30013-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.6	101	70 - 125
trans-1,2-Dichloroethene	50.00	50.0	99.9	60 - 140
1,2-Dichloropropane	50.00	49.3	98.6	75 - 125
1,3-Dichloropropane	50.00	49.0	97.9	75 - 125
2,2-Dichloropropane	50.00	48.8	97.6	70 - 135
1,1-Dichloropropene	50.00	46.4	92.8	75 - 130
cis-1,3-Dichloropropene	50.00	51.3	103	70 - 130
trans-1,3-Dichloropropene	50.00	42.9	85.8	55 - 140
Ethylbenzene	50.00	49.9	99.8	75 - 125
Hexachlorobutadiene	50.00	50.3	101	50 - 140
2-Hexanone	100.0	85.2	85.2	55 - 130
Isopropylbenzene	50.00	47.7	95.3	75 - 125
p-Isopropyltoluene	50.00	47.7	95.4	75 - 130
Methylene chloride	50.00	47.8	95.6	55 - 140
Naphthalene	50.00	51.3	103	55 - 140
4-Methyl-2-pentanone	100.0	89.4	89.4	60 - 135
Methyl t-Butyl Ether	50.00	46.6	93.2	65 - 125
n-Propylbenzene	50.00	49.4	98.9	70 - 130
Styrene	50.00	51.9	104	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.3	98.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.2	104	80 - 130
Tetrachloroethene	50.00	51.1	102	45 - 150
Toluene	50.00	49.3	98.5	75 - 120
1,2,3-Trichlorobenzene	50.00	51.7	103	55 - 140
1,2,4-Trichlorobenzene	50.00	52.3	105	65 - 135
1,1,2-Trichloroethane	50.00	51.0	102	75 - 125
1,1,1-Trichloroethane	50.00	50.0	99.9	65 - 130
Trichloroethene	50.00	51.4	103	70 - 125
Trichlorofluoromethane	50.00	50.3	101	60 - 145
1,2,3-Trichloropropane	50.00	49.9	99.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30013	Laboratory ID:	2A30013-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	50.9	102	75 - 130
1,2,4-Trimethylbenzene	50.00	50.9	102	75 - 130
Vinyl chloride	50.00	57.0	114	50 - 145
Xylenes (total)	150.0	148	98.6	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A31015	Laboratory ID:	2A31015-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**	**163**	**163**	**40 - 140**
Benzene	50.00	52.9	106	80 - 120
Bromobenzene	50.00	53.8	108	75 - 125
Bromochloromethane	50.00	54.7	109	65 - 130
Bromodichloromethane	50.00	50.0	100	75 - 120
Bromoform	50.00	56.4	113	70 - 130
Bromomethane	50.00	47.6	95.1	30 - 145
n-Butylbenzene	50.00	51.5	103	70 - 135
2-Butanone	100.0	106	106	30 - 150
sec-Butylbenzene	50.00	51.1	102	70 - 125
tert-Butylbenzene	50.00	50.6	101	70 - 130
Carbon disulfide	50.00	44.5	88.9	35 - 160
Carbon tetrachloride	50.00	53.2	106	65 - 140
Chlorobenzene	50.00	52.6	105	80 - 120
Chloroethane	50.00	57.9	116	60 - 135
Chloroform	50.00	48.2	96.5	65 - 135
Chloromethane	50.00	39.1	78.3	40 - 125
2-Chlorotoluene	50.00	50.2	100	75 - 125
4-Chlorotoluene	50.00	50.0	100	75 - 130
Dibromochloromethane	50.00	52.5	105	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.3	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.8	104	80 - 120
Dibromomethane	50.00	51.0	102	75 - 125
1,2-Dichlorobenzene	50.00	52.3	105	70 - 120
1,3-Dichlorobenzene	50.00	50.9	102	75 - 125
1,4-Dichlorobenzene	50.00	51.7	103	75 - 125
Dichlorodifluoromethane	50.00	48.7	97.3	30 - 155
1,1-Dichloroethane	50.00	51.1	102	70 - 135
1,2-Dichloroethane	50.00	47.4	94.7	70 - 130
1,1-Dichloroethene	50.00	49.6	99.1	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A31015	Laboratory ID:	2A31015-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	52.5	105	70 - 125
trans-1,2-Dichloroethene	50.00	55.2	110	60 - 140
1,2-Dichloropropane	50.00	51.0	102	75 - 125
1,3-Dichloropropane	50.00	51.3	103	75 - 125
2,2-Dichloropropane	50.00	50.0	100	70 - 135
1,1-Dichloropropene	50.00	51.3	103	75 - 130
cis-1,3-Dichloropropene	50.00	53.5	107	70 - 130
trans-1,3-Dichloropropene	50.00	44.3	88.6	55 - 140
Ethylbenzene	50.00	53.3	107	75 - 125
Hexachlorobutadiene	50.00	45.3	90.7	50 - 140
2-Hexanone	100.0	103	103	55 - 130
Isopropylbenzene	50.00	49.4	98.8	75 - 125
p-Isopropyltoluene	50.00	48.6	97.2	75 - 130
Methylene chloride	50.00	50.5	101	55 - 140
Naphthalene	50.00	52.4	105	55 - 140
4-Methyl-2-pentanone	100.0	91.6	91.6	60 - 135
Methyl t-Butyl Ether	50.00	48.6	97.2	65 - 125
n-Propylbenzene	50.00	51.6	103	70 - 130
Styrene	50.00	53.8	108	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.7	99.5	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.0	110	80 - 130
Tetrachloroethene	50.00	54.5	109	45 - 150
Toluene	50.00	52.0	104	75 - 120
1,2,3-Trichlorobenzene	50.00	47.2	94.3	55 - 140
1,2,4-Trichlorobenzene	50.00	49.9	99.8	65 - 135
1,1,2-Trichloroethane	50.00	53.2	106	75 - 125
1,1,1-Trichloroethane	50.00	50.1	100	65 - 130
Trichloroethene	50.00	53.2	106	70 - 125
Trichlorofluoromethane	50.00	51.9	104	60 - 145
1,2,3-Trichloropropane	50.00	49.4	98.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A31015	Laboratory ID:	2A31015-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.2	104	75 - 130
1,2,4-Trimethylbenzene	50.00	51.3	103	75 - 130
Vinyl chloride	50.00	62.4	125	50 - 145
Xylenes (total)	150.0	155	103	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A25013

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	97.4	97.4		40 - 140
Benzene	50.00	ND	54.9	110		80 - 120
Bromobenzene	50.00	ND	50.8	102		75 - 125
Bromochloromethane	50.00	ND	53.8	108		65 - 130
Bromodichloromethane	50.00	ND	50.9	102		75 - 120
Bromoform	50.00	ND	56.9	114		70 - 130
Bromomethane	50.00	ND	49.7	99.4		30 - 145
n-Butylbenzene	50.00	ND	53.2	106		70 - 135
2-Butanone	100.0	ND	92.7	92.7		30 - 150
sec-Butylbenzene	50.00	ND	51.5	103		70 - 125
tert-Butylbenzene	50.00	ND	51.0	102		70 - 130
Carbon disulfide	50.00	ND	47.2	94.4		35 - 160
Carbon tetrachloride	50.00	ND	56.1	112		65 - 140
Chlorobenzene	50.00	ND	53.2	106		80 - 120
Chloroethane	50.00	ND	62.0	124		60 - 135
Chloroform	50.00	ND	50.1	100		65 - 135
Chloromethane	50.00	ND	45.4	90.8		40 - 125
2-Chlorotoluene	50.00	ND	50.3	101		75 - 125
4-Chlorotoluene	50.00	ND	50.9	102		75 - 130
Dibromochloromethane	50.00	ND	53.6	107		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	52.4	105		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	54.2	108		80 - 120
Dibromomethane	50.00	ND	53.1	106		75 - 125
1,2-Dichlorobenzene	50.00	ND	50.3	101		70 - 120
1,3-Dichlorobenzene	50.00	ND	50.6	101		75 - 125
1,4-Dichlorobenzene	50.00	ND	51.2	102		75 - 125
Dichlorodifluoromethane	50.00	ND	50.7	101		30 - 155
1,1-Dichloroethane	50.00	ND	54.1	108		70 - 135
1,2-Dichloroethane	50.00	ND	51.0	102		70 - 130
1,1-Dichloroethene	50.00	ND	52.2	104		70 - 130
cis-1,2-Dichloroethene	50.00	ND	55.2	110		70 - 125
trans-1,2-Dichloroethene	50.00	ND	55.0	110		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A25013

% Solids:

Source Sample Name: **1201137-03**

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	52.4	105		75 - 125
1,3-Dichloropropane	50.00	ND	53.8	108		75 - 125
2,2-Dichloropropane	50.00	ND	46.2	92.4		70 - 135
1,1-Dichloropropene	50.00	ND	54.7	109		75 - 130
cis-1,3-Dichloropropene	50.00	ND	53.6	107		70 - 130
trans-1,3-Dichloropropene	50.00	ND	45.8	91.5		55 - 140
Ethylbenzene	50.00	ND	53.4	107		75 - 125
Hexachlorobutadiene	50.00	ND	48.8	97.6		50 - 140
2-Hexanone	100.0	ND	97.1	97.1		55 - 130
Isopropylbenzene	50.00	ND	49.4	98.9		75 - 125
p-Isopropyltoluene	50.00	ND	49.1	98.2		75 - 130
Methylene chloride	50.00	ND	53.1	106		55 - 140
Naphthalene	50.00	ND	54.4	109		55 - 140
4-Methyl-2-pentanone	100.0	ND	98.8	98.8		60 - 135
Methyl t-Butyl Ether	50.00	ND	49.1	98.1		65 - 125
n-Propylbenzene	50.00	ND	51.7	103		70 - 130
Styrene	50.00	ND	52.8	106		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	52.9	106		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	54.7	109		80 - 130
Tetrachloroethene	50.00	ND	54.1	108		45 - 150
Toluene	50.00	ND	54.6	109		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	48.9	97.8		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	52.0	104		65 - 135
1,1,2-Trichloroethane	50.00	ND	55.8	112		75 - 125
1,1,1-Trichloroethane	50.00	ND	53.4	107		65 - 130
Trichloroethene	50.00	ND	54.3	109		70 - 125
Trichlorofluoromethane	50.00	ND	54.9	110		60 - 145
1,2,3-Trichloropropane	50.00	ND	51.7	103		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	52.9	106		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	51.6	103		75 - 130
Vinyl chloride	50.00	ND	62.4	125		50 - 145
Xylenes (total)	150.0	ND	157	105		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A25013

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	90.5	90.5	7.36		30	40 - 140
Benzene	50.00	51.3	103	6.72		30	80 - 120
Bromobenzene	50.00	52.3	105	2.80		30	75 - 125
Bromochloromethane	50.00	51.1	102	5.11		30	65 - 130
Bromodichloromethane	50.00	49.3	98.5	3.28		30	75 - 120
Bromoform	50.00	55.5	111	2.43		30	70 - 130
Bromomethane	50.00	47.0	94.0	5.59		30	30 - 145
n-Butylbenzene	50.00	51.7	103	2.88		30	70 - 135
2-Butanone	100.0	84.7	84.7	9.07		30	30 - 150
sec-Butylbenzene	50.00	51.7	103	0.417		30	70 - 125
tert-Butylbenzene	50.00	51.6	103	1.16		30	70 - 130
Carbon disulfide	50.00	44.1	88.2	6.83		30	35 - 160
Carbon tetrachloride	50.00	52.6	105	6.39		30	65 - 140
Chlorobenzene	50.00	51.7	103	2.73		30	80 - 120
Chloroethane	50.00	58.2	116	6.38		30	60 - 135
Chloroform	50.00	46.2	92.4	8.04		30	65 - 135
Chloromethane	50.00	43.6	87.2	4.10		30	40 - 125
2-Chlorotoluene	50.00	51.5	103	2.38		30	75 - 125
4-Chlorotoluene	50.00	49.7	99.4	2.39		30	75 - 130
Dibromochloromethane	50.00	51.7	103	3.65		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.1	102	2.68		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.3	105	3.62		30	80 - 120
Dibromomethane	50.00	51.0	102	3.89		30	75 - 125
1,2-Dichlorobenzene	50.00	50.6	101	0.505		30	70 - 120
1,3-Dichlorobenzene	50.00	50.8	102	0.535		30	75 - 125
1,4-Dichlorobenzene	50.00	51.6	103	0.870		30	75 - 125
Dichlorodifluoromethane	50.00	48.9	97.8	3.56		30	30 - 155
1,1-Dichloroethane	50.00	50.9	102	6.05		30	70 - 135
1,2-Dichloroethane	50.00	47.6	95.1	7.06		30	70 - 130
1,1-Dichloroethene	50.00	47.9	95.8	8.62		30	70 - 130
cis-1,2-Dichloroethene	50.00	50.8	102	8.29		30	70 - 125
trans-1,2-Dichloroethene	50.00	51.9	104	5.74		30	60 - 140
1,2-Dichloropropane	50.00	50.3	101	4.09		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A25013

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	52.7	105	2.09		30	75 - 125
2,2-Dichloropropane	50.00	44.4	88.8	4.05		30	70 - 135
1,1-Dichloropropene	50.00	51.0	102	7.09		30	75 - 130
cis-1,3-Dichloropropene	50.00	52.5	105	2.08		30	70 - 130
trans-1,3-Dichloropropene	50.00	44.5	88.9	2.87		30	55 - 140
Ethylbenzene	50.00	52.2	104	2.36		30	75 - 125
Hexachlorobutadiene	50.00	47.8	95.6	2.04		30	50 - 140
2-Hexanone	100.0	93.4	93.4	3.80		30	55 - 130
Isopropylbenzene	50.00	49.5	99.0	0.178		30	75 - 125
p-Isopropyltoluene	50.00	48.9	97.9	0.382		30	75 - 130
Methylene chloride	50.00	49.4	98.8	7.20		30	55 - 140
Naphthalene	50.00	51.8	104	4.92		30	55 - 140
4-Methyl-2-pentanone	100.0	95.8	95.8	3.08		30	60 - 135
Methyl t-Butyl Ether	50.00	47.9	95.8	2.41		30	65 - 125
n-Propylbenzene	50.00	51.4	103	0.673		30	70 - 130
Styrene	50.00	52.5	105	0.656		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.8	104	2.22		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.3	109	0.744		30	80 - 130
Tetrachloroethene	50.00	52.4	105	3.33		30	45 - 150
Toluene	50.00	52.0	104	4.82		30	75 - 120
1,2,3-Trichlorobenzene	50.00	50.5	101	3.22		30	55 - 140
1,2,4-Trichlorobenzene	50.00	51.8	104	0.289		30	65 - 135
1,1,2-Trichloroethane	50.00	54.2	108	2.89		30	75 - 125
1,1,1-Trichloroethane	50.00	51.0	102	4.68		30	65 - 130
Trichloroethene	50.00	51.6	103	4.95		30	70 - 125
Trichlorofluoromethane	50.00	53.5	107	2.68		30	60 - 145
1,2,3-Trichloropropane	50.00	51.5	103	0.535		30	75 - 125
1,3,5-Trimethylbenzene	50.00	52.1	104	1.55		30	75 - 130
1,2,4-Trimethylbenzene	50.00	51.6	103	0.00620		30	75 - 130
Vinyl chloride	50.00	61.0	122	2.28		30	50 - 145
Xylenes (total)	150.0	153	102	2.77		30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A25013 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/25/12 00:00	5.00	5.00
GW0376	1201137-03	01/25/12 00:00	5.00	5.00
GW0377	1201137-05	01/25/12 00:00	5.00	5.00
GW0397	1201137-07	01/25/12 00:00	5.00	5.00
GW0398	1201137-09	01/25/12 00:00	5.00	5.00
GW8161-TB	1201137-11	01/25/12 00:00	5.00	5.00
Blank	2A25013-BLK1	01/25/12 00:00	5.00	5.00
LCS	2A25013-BS1	01/25/12 00:00	5.00	5.00
GW0376	2A25013-MS2	01/25/12 00:00	5.00	5.00
GW0376	2A25013-MSD2	01/25/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A26010 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0378	1201139-01	01/26/12 00:00	5.00	5.00
GW0379	1201139-03	01/26/12 00:00	5.00	5.00
GW0380	1201139-05	01/26/12 00:00	5.00	5.00
GW0396	1201139-07	01/26/12 00:00	5.00	5.00
GW0428	1201139-09	01/26/12 00:00	5.00	5.00
GW0430	1201139-11	01/26/12 00:00	5.00	5.00
GW8162-TB	1201139-13	01/26/12 00:00	5.00	5.00
Blank	2A26010-BLK1	01/26/12 00:00	5.00	5.00
LCS	2A26010-BS1	01/26/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27019 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0404	1201151-01	01/27/12 00:00	5.00	5.00
GW0410	1201151-03	01/27/12 00:00	5.00	5.00
GW0429	1201151-05	01/27/12 00:00	5.00	5.00
GW8163-TB	1201151-07	01/27/12 00:00	5.00	5.00
Blank	2A27019-BLK1	01/27/12 00:00	5.00	5.00
LCS	2A27019-BS1	01/27/12 00:00	5.00	5.00
LCS Dup	2A27019-BSD1	01/27/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A30013 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0467	1201193-03	01/30/12 00:00	5.00	5.00
GW0468	1201193-05	01/30/12 00:00	5.00	5.00
GW0472	1201193-07	01/30/12 00:00	5.00	5.00
GW8164-TB	1201193-13	01/30/12 00:00	5.00	5.00
Blank	2A30013-BLK1	01/30/12 00:00	5.00	5.00
LCS	2A30013-BS1	01/30/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A31015 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01RE1	01/31/12 00:00	5.00	5.00
GW0475	1201193-09	01/31/12 00:00	5.00	5.00
GW0493	1201193-11	01/31/12 00:00	5.00	5.00
Blank	2A31015-BLK1	01/31/12 00:00	5.00	5.00
LCS	2A31015-BS1	01/31/12 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0106TU1.D	Injection Date:	01/06/12
Instrument ID:	MS-VOA4	Injection Time:	07:52
Sequence:	2A00902	Lab Sample ID:	2A00902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.4	PASS
75	30 - 60% of 95	42.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.54	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.6	PASS
175	5 - 9% of 174	8.11	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	6.79	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0125TU1.D	Injection Date:	01/25/12
Instrument ID:	MS-VOA4	Injection Time:	07:00
Sequence:	2A02606	Lab Sample ID:	2A02606-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	42.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.41	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	67.8	PASS
175	5 - 9% of 174	7.95	PASS
176	95 - 101% of 174	95.3	PASS
177	5 - 9% of 176	7.35	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0126TU1.D	Injection Date:	01/26/12
Instrument ID:	MS-VOA4	Injection Time:	07:57
Sequence:	2A02704	Lab Sample ID:	2A02704-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.4	PASS
75	30 - 60% of 95	42.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.1	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.6	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.25	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0127TU1.D	Injection Date:	01/27/12
Instrument ID:	MS-VOA4	Injection Time:	08:55
Sequence:	2A03011	Lab Sample ID:	2A03011-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.4	PASS
75	30 - 60% of 95	41.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.77	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	88	PASS
175	5 - 9% of 174	7.69	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.87	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0130TU1.D	Injection Date:	01/30/12
Instrument ID:	MS-VOA4	Injection Time:	08:15
Sequence:	2A03101	Lab Sample ID:	2A03101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.5	PASS
75	30 - 60% of 95	40.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.43	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.2	PASS
175	5 - 9% of 174	7.14	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6.57	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0131TU1.D	Injection Date:	01/31/12
Instrument ID:	MS-VOA4	Injection Time:	10:47
Sequence:	2B03201	Lab Sample ID:	2B03201-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.4	PASS
75	30 - 60% of 95	42.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.14	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	71.3	PASS
175	5 - 9% of 174	7.65	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.09	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00902	Instrument:	MS-VOA4
Calibration:	2011004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A00902-TUN1	0106TU1.D	01/06/12 07:52
Cal Standard	2A00902-CAL1	SEQCAL1.D	01/06/12 08:49
Cal Standard	2A00902-CAL2	SEQCAL2.D	01/06/12 09:17
Cal Standard	2A00902-CAL3	SEQCAL3.D	01/06/12 09:45
Cal Standard	2A00902-CAL4	SEQCAL4.D	01/06/12 10:13
Cal Standard	2A00902-CAL5	SEQCAL5.D	01/06/12 10:42
Cal Standard	2A00902-CAL6	SEQCAL6.D	01/06/12 11:10
Cal Standard	2A00902-CAL7	SEQCAL7.D	01/06/12 11:38
Cal Standard	2A00902-CAL8	SEQCAL8.D	01/06/12 12:06
Cal Standard	2A00902-CAL9	SEQCAL9.D	01/06/12 12:34
Initial Cal Check	2A00902-ICV1	SEQICV1.D	01/06/12 13:31
Initial Cal Check	2A00902-ICV2	SEQICV2.D	01/06/12 13:59

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02606	Instrument:	MS-VOA4
Calibration:	2011004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A02606-TUN1	0125TU1.D	01/25/12 07:00
Calibration Check	2A02606-CCV1	0125CCV1.D	01/25/12 07:29
LCS	2A25013-BS1	0125LCS1.D	01/25/12 08:04
Blank	2A25013-BLK1	0125BLK1.D	01/25/12 09:29
GW8161-TB	1201137-11	0113711.D	01/25/12 09:58
GW0375	1201137-01	0113701.D	01/25/12 10:26
GW0376	1201137-03	0113703.D	01/25/12 10:54
GW0377	1201137-05	0113705.D	01/25/12 11:23
GW0398	1201137-09	0113709.D	01/25/12 11:51
GW0397	1201137-07	0113707.D	01/25/12 16:33
GW0376	2A25013-MS2	0113703M.D	01/25/12 18:26
GW0376	2A25013-MSD2	0113703S.D	01/25/12 18:54

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02704	Instrument:	MS-VOA4
Calibration:	2011004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A02704-TUN1	0126TU1.D	01/26/12 07:57
Calibration Check	2A02704-CCV1	0126CCV1.D	01/26/12 08:26
LCS	2A26010-BS1	0126LCS1.D	01/26/12 08:54
Blank	2A26010-BLK1	0126BLK1.D	01/26/12 10:19
GW8162-TB	1201139-13	0113913.D	01/26/12 11:43
GW0378	1201139-01	0113901.D	01/26/12 12:40
GW0379	1201139-03	0113903.D	01/26/12 13:08
GW0380	1201139-05	0113905.D	01/26/12 13:36
GW0396	1201139-07	0113907.D	01/26/12 14:05
GW0428	1201139-09	0113909.D	01/26/12 14:33
GW0430	1201139-11	0113911.D	01/26/12 15:01

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03011	Instrument:	MS-VOA4
Calibration:	2011004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A03011-TUN1	0127TU1.D	01/27/12 08:55
Calibration Check	2A03011-CCV1	0127CCV1.D	01/27/12 09:23
LCS	2A27019-BS1	0127LCS1.D	01/27/12 09:59
Blank	2A27019-BLK1	0127BLK1.D	01/27/12 11:24
GW8163-TB	1201151-07	0115107.D	01/27/12 13:16
GW0404	1201151-01	0115101.D	01/27/12 16:06
GW0410	1201151-03	0115103.D	01/27/12 16:34
GW0429	1201151-05	0115105.D	01/27/12 17:02
LCS Dup	2A27019-BSD1	0127LCD1.D	01/27/12 19:52

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03101	Instrument:	MS-VOA4
Calibration:	2011004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A03101-TUN1	0130TU1.D	01/30/12 08:15
Calibration Check	2A03101-CCV1	0130CCV1.D	01/30/12 08:44
LCS	2A30013-BS1	0130LCS1.D	01/30/12 09:12
Blank	2A30013-BLK1	0130BLK1.D	01/30/12 10:37
GW8164-TB	1201193-13	0119313.D	01/30/12 11:33
GW0468	1201193-05	0119305.D	01/30/12 12:30
GW0472	1201193-07	0119307.D	01/30/12 12:58
GW0467	1201193-03	0119303.D	01/30/12 14:23

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03201	Instrument:	MS-VOA4
Calibration:	2011004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2B03201-TUN1	0131TU1.D	01/31/12 10:47
Calibration Check	2B03201-CCV1	0131CCV1.D	01/31/12 11:15
LCS	2A31015-BS1	0131LCS1.D	01/31/12 11:53
Blank	2A31015-BLK1	0131BLK1.D	01/31/12 15:24
GW0475	1201193-09	0119309.D	01/31/12 17:45
GW0493	1201193-11	0119311.D	01/31/12 18:13
GW0466	1201193-01RE1	0119301R.D	01/31/12 19:38

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02606	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A02606-CCV1)			Lab File ID: 0125CCV1.D			Analyzed: 01/25/12 07:29			
Fluorobenzene	1050174	7.947	983262	7.953	107	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	397348	11.055	383879	11.06	104	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	418167	13.446	399760	13.457	105	50 - 200	-0.0110	+/-0.50	
LCS (2A25013-BS1)			Lab File ID: 0125LCS1.D			Analyzed: 01/25/12 08:04			
Fluorobenzene	1077473	7.951	1050174	7.947	103	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	415129	11.06	397348	11.055	104	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	447732	13.451	418167	13.446	107	50 - 200	0.0050	+/-0.50	
Blank (2A25013-BLK1)			Lab File ID: 0125BLK1.D			Analyzed: 01/25/12 09:29			
Fluorobenzene	1073422	7.951	1050174	7.947	102	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	407234	11.06	397348	11.055	102	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	419888	13.45	418167	13.446	100	50 - 200	0.0040	+/-0.50	
GW8161-TB (1201137-11)			Lab File ID: 0113711.D			Analyzed: 01/25/12 09:58			
Fluorobenzene	1018984	7.942	1050174	7.947	97	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	397120	11.051	397348	11.055	100	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	421218	13.451	418167	13.446	101	50 - 200	0.0050	+/-0.50	
GW0375 (1201137-01)			Lab File ID: 0113701.D			Analyzed: 01/25/12 10:26			
Fluorobenzene	980384	7.946	1050174	7.947	93	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	382657	11.055	397348	11.055	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	413847	13.455	418167	13.446	99	50 - 200	0.0090	+/-0.50	
GW0376 (1201137-03)			Lab File ID: 0113703.D			Analyzed: 01/25/12 10:54			
Fluorobenzene	994881	7.948	1050174	7.947	95	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	392374	11.057	397348	11.055	99	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	420050	13.447	418167	13.446	100	50 - 200	0.0010	+/-0.50	
GW0377 (1201137-05)			Lab File ID: 0113705.D			Analyzed: 01/25/12 11:23			
Fluorobenzene	1017432	7.948	1050174	7.947	97	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	396483	11.056	397348	11.055	100	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	412412	13.457	418167	13.446	99	50 - 200	0.0110	+/-0.50	
GW0398 (1201137-09)			Lab File ID: 0113709.D			Analyzed: 01/25/12 11:51			
Fluorobenzene	1001776	7.948	1050174	7.947	95	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	398809	11.057	397348	11.055	100	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	422756	13.457	418167	13.446	101	50 - 200	0.0110	+/-0.50	
GW0397 (1201137-07)			Lab File ID: 0113707.D			Analyzed: 01/25/12 16:33			
Fluorobenzene	863080	7.952	1050174	7.947	82	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	346067	11.06	397348	11.055	87	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	368476	13.451	418167	13.446	88	50 - 200	0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02606	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (2A25013-MS2)			Lab File ID: 0113703M.D			Analyzed: 01/25/12 18:26			
Fluorobenzene	991749	7.953	1050174	7.947	94	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	376984	11.062	397348	11.055	95	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	416548	13.452	418167	13.446	100	50 - 200	0.0060	+/-0.50	
Matrix Spike Dup (2A25013-MSD2)			Lab File ID: 0113703S.D			Analyzed: 01/25/12 18:54			
Fluorobenzene	1046878	7.957	1050174	7.947	100	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	386752	11.056	397348	11.055	97	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	414103	13.456	418167	13.446	99	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02704	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A02704-CCV1)			Lab File ID: 0126CCV1.D			Analyzed: 01/26/12 08:26			
Fluorobenzene	951287	7.962	983262	7.953	97	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	353232	11.071	383879	11.06	92	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	384563	13.461	399760	13.457	96	50 - 200	0.0040	+/-0.50	
LCS (2A26010-BS1)			Lab File ID: 0126LCS1.D			Analyzed: 01/26/12 08:54			
Fluorobenzene	1000978	7.962	951287	7.962	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	374079	11.07	353232	11.071	106	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	403856	13.461	384563	13.461	105	50 - 200	0.0000	+/-0.50	
Blank (2A26010-BLK1)			Lab File ID: 0126BLK1.D			Analyzed: 01/26/12 10:19			
Fluorobenzene	973544	7.962	951287	7.962	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	368236	11.071	353232	11.071	104	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	392214	13.461	384563	13.461	102	50 - 200	0.0000	+/-0.50	
GW8162-TB (1201139-13)			Lab File ID: 0113913.D			Analyzed: 01/26/12 11:43			
Fluorobenzene	921191	7.968	951287	7.962	97	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	362531	11.077	353232	11.071	103	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	378362	13.467	384563	13.461	98	50 - 200	0.0060	+/-0.50	
GW0378 (1201139-01)			Lab File ID: 0113901.D			Analyzed: 01/26/12 12:40			
Fluorobenzene	926943	7.968	951287	7.962	97	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	360894	11.077	353232	11.071	102	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	380064	13.467	384563	13.461	99	50 - 200	0.0060	+/-0.50	
GW0379 (1201139-03)			Lab File ID: 0113903.D			Analyzed: 01/26/12 13:08			
Fluorobenzene	933044	7.968	951287	7.962	98	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	350315	11.076	353232	11.071	99	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	376758	13.467	384563	13.461	98	50 - 200	0.0060	+/-0.50	
GW0380 (1201139-05)			Lab File ID: 0113905.D			Analyzed: 01/26/12 13:36			
Fluorobenzene	890777	7.962	951287	7.962	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	353011	11.071	353232	11.071	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	373763	13.471	384563	13.461	97	50 - 200	0.0100	+/-0.50	
GW0396 (1201139-07)			Lab File ID: 0113907.D			Analyzed: 01/26/12 14:05			
Fluorobenzene	893910	7.972	951287	7.962	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	339497	11.071	353232	11.071	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	390146	13.471	384563	13.461	101	50 - 200	0.0100	+/-0.50	
GW0428 (1201139-09)			Lab File ID: 0113909.D			Analyzed: 01/26/12 14:33			
Fluorobenzene	918607	7.971	951287	7.962	97	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	358491	11.079	353232	11.071	101	50 - 200	0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	369851	13.47	384563	13.461	96	50 - 200	0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02704	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0430 (1201139-11)			Lab File ID: 0113911.D			Analyzed: 01/26/12 15:01			
Fluorobenzene	921640	7.972	951287	7.962	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	353413	11.08	353232	11.071	100	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	370081	13.471	384563	13.461	96	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03011	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A03011-CCV1)			Lab File ID: 0127CCV1.D			Analyzed: 01/27/12 09:23			
Fluorobenzene	925531	7.955	983262	7.953	94	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	366828	11.064	383879	11.06	96	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	399802	13.464	399760	13.457	100	50 - 200	0.0070	+/-0.50	
LCS (2A27019-BS1)			Lab File ID: 0127LCS1.D			Analyzed: 01/27/12 09:59			
Fluorobenzene	995125	7.952	925531	7.955	108	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	367289	11.061	366828	11.064	100	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	403173	13.461	399802	13.464	101	50 - 200	-0.0030	+/-0.50	
Blank (2A27019-BLK1)			Lab File ID: 0127BLK1.D			Analyzed: 01/27/12 11:24			
Fluorobenzene	950567	7.954	925531	7.955	103	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	353222	11.062	366828	11.064	96	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	384729	13.453	399802	13.464	96	50 - 200	-0.0110	+/-0.50	
GW8163-TB (1201151-07)			Lab File ID: 0115107.D			Analyzed: 01/27/12 13:16			
Fluorobenzene	912936	7.954	925531	7.955	99	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	360930	11.063	366828	11.064	98	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	392769	13.453	399802	13.464	98	50 - 200	-0.0110	+/-0.50	
GW0404 (1201151-01)			Lab File ID: 0115101.D			Analyzed: 01/27/12 16:06			
Fluorobenzene	903440	7.956	925531	7.955	98	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	356418	11.064	366828	11.064	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	383716	13.455	399802	13.464	96	50 - 200	-0.0090	+/-0.50	
GW0410 (1201151-03)			Lab File ID: 0115103.D			Analyzed: 01/27/12 16:34			
Fluorobenzene	911054	7.949	925531	7.955	98	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	355633	11.057	366828	11.064	97	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	377771	13.458	399802	13.464	94	50 - 200	-0.0060	+/-0.50	
GW0429 (1201151-05)			Lab File ID: 0115105.D			Analyzed: 01/27/12 17:02			
Fluorobenzene	913464	7.951	925531	7.955	99	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	358260	11.06	366828	11.064	98	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	397413	13.46	399802	13.464	99	50 - 200	-0.0040	+/-0.50	
LCS Dup (2A27019-BSD1)			Lab File ID: 0127LCD1.D			Analyzed: 01/27/12 19:52			
Fluorobenzene	951521	7.954	925531	7.955	103	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	363342	11.063	366828	11.064	99	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	395674	13.453	399802	13.464	99	50 - 200	-0.0110	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03101	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A03101-CCV1)			Lab File ID: 0130CCV1.D			Analyzed: 01/30/12 08:44			
Fluorobenzene	964070	7.943	983262	7.953	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	372137	11.052	383879	11.06	97	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	395990	13.452	399760	13.457	99	50 - 200	-0.0050	+/-0.50	
LCS (2A30013-BS1)			Lab File ID: 0130LCS1.D			Analyzed: 01/30/12 09:12			
Fluorobenzene	1004263	7.942	964070	7.943	104	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	386415	11.051	372137	11.052	104	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	412742	13.451	395990	13.452	104	50 - 200	-0.0010	+/-0.50	
Blank (2A30013-BLK1)			Lab File ID: 0130BLK1.D			Analyzed: 01/30/12 10:37			
Fluorobenzene	978839	7.939	964070	7.943	102	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	387846	11.047	372137	11.052	104	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	411533	13.448	395990	13.452	104	50 - 200	-0.0040	+/-0.50	
GW8164-TB (1201193-13)			Lab File ID: 0119313.D			Analyzed: 01/30/12 11:33			
Fluorobenzene	974915	7.942	964070	7.943	101	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	382130	11.05	372137	11.052	103	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	406239	13.451	395990	13.452	103	50 - 200	-0.0010	+/-0.50	
GW0468 (1201193-05)			Lab File ID: 0119305.D			Analyzed: 01/30/12 12:30			
Fluorobenzene	985104	7.948	964070	7.943	102	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	381842	11.057	372137	11.052	103	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	426039	13.447	395990	13.452	108	50 - 200	-0.0050	+/-0.50	
GW0472 (1201193-07)			Lab File ID: 0119307.D			Analyzed: 01/30/12 12:58			
Fluorobenzene	954242	7.948	964070	7.943	99	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	368052	11.057	372137	11.052	99	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	387671	13.448	395990	13.452	98	50 - 200	-0.0040	+/-0.50	
GW0467 (1201193-03)			Lab File ID: 0119303.D			Analyzed: 01/30/12 14:23			
Fluorobenzene	967054	7.943	964070	7.943	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	362046	11.051	372137	11.052	97	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	391798	13.452	395990	13.452	99	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03201	Instrument:	MS-VOA4
		Calibration:	2011004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2B03201-CCV1)			Lab File ID: 0131CCV1.D			Analyzed: 01/31/12 11:15			
Fluorobenzene	1065621	7.951	983262	7.953	108	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	394382	11.06	383879	11.06	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	411908	13.45	399760	13.457	103	50 - 200	-0.0070	+/-0.50	
LCS (2A31015-BS1)			Lab File ID: 0131LCS1.D			Analyzed: 01/31/12 11:53			
Fluorobenzene	1045010	7.944	1065621	7.951	98	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	393481	11.053	394382	11.06	100	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	428929	13.453	411908	13.45	104	50 - 200	0.0030	+/-0.50	
Blank (2A31015-BLK1)			Lab File ID: 0131BLK1.D			Analyzed: 01/31/12 15:24			
Fluorobenzene	1016334	7.953	1065621	7.951	95	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	390270	11.061	394382	11.06	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	426542	13.452	411908	13.45	104	50 - 200	0.0020	+/-0.50	
GW0475 (1201193-09)			Lab File ID: 0119309.D			Analyzed: 01/31/12 17:45			
Fluorobenzene	983532	7.955	1065621	7.951	92	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	395276	11.064	394382	11.06	100	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	420178	13.455	411908	13.45	102	50 - 200	0.0050	+/-0.50	
GW0493 (1201193-11)			Lab File ID: 0119311.D			Analyzed: 01/31/12 18:13			
Fluorobenzene	974267	7.956	1065621	7.951	91	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	384301	11.064	394382	11.06	97	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	420691	13.455	411908	13.45	102	50 - 200	0.0050	+/-0.50	
GW0466 (1201193-01RE1)			Lab File ID: 0119301R.D			Analyzed: 01/31/12 19:38			
Fluorobenzene	960003	7.953	1065621	7.951	90	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	363829	11.062	394382	11.06	92	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	392897	13.452	411908	13.45	95	50 - 200	0.0020	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2011004		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	1/6/12 8:49	1/6/12 12:34

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	9.381877E-02	2	0.102278	4	8.767798E-02	10	7.415318E-02	20	7.114093E-02	100	6.120788E-02
Acrolein	2.502	5.229756E-02	5.005	4.028654E-02	10.01	4.190665E-02	25.02	4.123089E-02	50.05	0.0230089	250.2	2.281535E-02
Acrylonitrile	2.498	7.961083E-02	4.997	7.836325E-02	9.994	8.376711E-02	24.98	8.360881E-02	49.97	7.773431E-02	249.8	7.718366E-02
Benzene	0.5	0.8659493	1	0.877736	2	0.877177	5	0.8557211	10	0.8068226	50	0.7915002
Bromobenzene	0.5	0.6704029	1	0.6307899	2	0.6861217	5	0.6504002	10	0.6463347	50	0.6342971
Bromochloromethane	0.5	0.1379813	1	0.120716	2	0.1396707	5	0.1406665	10	0.1357205	50	0.1289797
Tert-Amyl Methyl Ether	0.5	0.6474739	1	0.6270465	2	0.6588948	5	0.6481996	10	0.6277878	50	0.5928271
Bromodichloromethane	0.5	0.2942953	1	0.2980532	2	0.3222217	5	0.302965	10	0.2895951	50	0.2852179
Bromoform	0.5	0.4132312	1	0.4194731	2	0.4288657	5	0.4204919	10	0.4170685	50	0.4648139
Bromomethane	0.5	~~0.27833~~	1	0.2107993	2	0.2166476	5	0.1955186	10	0.1750855	50	0.16324
Bromofluorobenzene	30	0.9298439	35	0.9002505	40	0.910851	50	0.8220762	60	0.8685338	70	0.8358502
n-Butylbenzene	0.5	1.348218	1	1.275935	2	1.346341	5	1.279428	10	1.228666	50	1.229195
2-Butanone	1	0.139165	2	0.1359554	4	0.1343393	10	0.1260152	20	0.112409	100	0.1063829
sec-Butylbenzene	0.5	1.743622	1	1.644123	2	1.842209	5	1.70771	10	1.638106	50	1.664286
tert-Butylbenzene	0.5	1.402824	1	1.336683	2	1.462715	5	1.396918	10	1.368962	50	1.348517
Carbon disulfide	0.5	0.7314889	1	0.6938786	2	0.7631246	5	0.7269538	10	0.7239692	50	0.7084408
Carbon tetrachloride	0.5	0.2362618	1	0.2334663	2	0.255266	5	0.2408453	10	0.2322999	50	0.2349772
Chlorobenzene	0.5	1.509865	1	1.446717	2	1.614753	5	1.449472	10	1.42403	50	1.442146
Chloroethane	0.5	0.1705189	1	0.1638047	2	0.1746838	5	0.1529196	10	0.1593694	50	0.1548301
Chloroform	0.5	0.4965019	1	0.4377146	2	0.4488159	5	0.397298	10	0.3876951	50	0.3625836
2-Chloroethyl vinyl ether	0.9975	0.1458429	1.995	0.1472264	3.99	0.1592328	9.975	0.148259	19.95	0.1481127	99.75	0.1402443
Chloromethane	0.5	0.3545141	1	0.3025127	2	0.3083051	5	0.2658091	10	0.2645749	50	0.2471158
1-Chlorohexane	0.5	0.8964132	1	0.7316316	2	0.7155059	5	0.6523462	10	0.5952247	50	0.6070666
2-Chlorotoluene	0.5	1.537903	1	1.488294	2	1.552511	5	1.447063	10	1.425774	50	1.382797
4-Chlorotoluene	0.5	1.731067	1	1.690295	2	1.808498	5	1.683845	10	1.632089	50	1.618613
Cyclohexane	0.5	0.3281077	1	0.3000215	2	0.3185096	5	0.3126979	10	0.2819641	50	0.2830945
Dibromochloromethane	0.5	0.6417163	1	0.6059409	2	0.6598401	5	0.6371383	10	0.6240749	50	0.6499053
1,2-Dibromo-3-chloropropane	0.5	0.1188937	1	0.1114334	2	0.1241829	5	0.1237643	10	0.127064	50	0.1328724
1,2-Dibromoethane (EDB)	0.5	0.588661	1	0.5585284	2	0.6300814	5	0.5861066	10	0.5859926	50	0.5805325
Dibromomethane	0.5	0.1751324	1	0.1563311	2	0.1750657	5	0.173679	10	0.1626532	50	0.1568931
1,2-Dichlorobenzene	0.5	1.027538	1	1.010226	2	1.113704	5	1.045242	10	1.025395	50	1.026858

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2011004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	1/6/12 8:49 1/6/12 12:34

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	1.153238	1	1.071788	2	1.146514	5	1.112392	10	1.065198	50	1.022892
1,4-Dichlorobenzene	0.5	1.095153	1	1.063723	2	1.172117	5	1.072213	10	1.065337	50	1.063538
Dichlorodifluoromethane	0.5	0.2258814	1	0.2296526	2	0.2117745	5	0.2070516	10	0.219852	50	0.2224737
1,1-Dichloroethane	0.5	0.4014994	1	0.4243052	2	0.4371296	5	0.4125289	10	0.4098296	50	0.4017474
1,2-Dichloroethane	0.5	0.3010335	1	0.2829521	2	0.3110854	5	0.2960147	10	0.2805772	50	0.2730936
1,1-Dichloroethene	0.5	0.2457317	1	0.2166122	2	0.2366901	5	0.216693	10	0.2083183	50	0.2086674
cis-1,2-Dichloroethene	0.5	0.2356548	1	0.248475	2	0.263729	5	0.2497117	10	0.2385969	50	0.227138
trans-1,2-Dichloroethene	0.5	0.2468851	1	0.239925	2	0.2459627	5	0.2305449	10	0.2291592	50	0.2229139
1,2-Dichloroethene (total)	1	0.2412699	2	0.2442	4	0.2548459	10	0.2401283	20	0.233878	100	0.2250259
1,2-Dichloropropane	0.5	0.2513772	1	0.2475831	2	0.2534634	5	0.2442136	10	0.2388799	50	0.2252443
1,3-Dichloropropane	0.5	0.7944081	1	0.8323434	2	0.9197218	5	0.8716809	10	0.8548685	50	0.8580708
2,2-Dichloropropane	0.5	0.2899246	1	0.3105092	2	0.3055248	5	0.2849393	10	0.2780739	50	0.2637238
1,1-Dichloropropene	0.5	0.2992731	1	0.2900874	2	0.3271407	5	0.301049	10	0.2880838	50	0.2825747
cis-1,3-Dichloropropene	0.5	0.3358172	1	0.3565504	2	0.3857251	5	0.3614479	10	0.3470396	50	0.336022
trans-1,3-Dichloropropene	0.5	0.9401523	1	0.8511174	2	0.9438045	5	0.8871702	10	0.8772335	50	0.8576712
Diisopropyl Ether	0.5	0.9352739	1	0.8562685	2	0.9298647	5	0.8701526	10	0.8680981	50	0.8337026
Ethylbenzene	0.5	2.267008	1	2.478176	2	2.528961	5	2.272122	10	2.24054	50	2.273311
Ethyl tert-Butyl Ether	0.5	0.6726056	1	0.7062424	2	0.7194498	5	0.6965895	10	0.6807109	50	0.6392152
Ethyl Methacrylate	0.5	0.7053511	1	0.6972656	2	0.7845103	5	0.7215242	10	0.6991505	50	0.7224117
Hexachlorobutadiene	0.5	0.2801413	1	0.2598633	2	0.2761079	5	0.2504403	10	0.2497174	50	0.2493844
2-Hexanone	1	0.4044676	2	0.4146602	4	0.432251	10	0.405198	20	0.3931269	100	0.3925799
Iodomethane	0.5	0.1795638	1	0.210092	2	0.237683	5	0.2668282	10	0.2956776	50	0.3488043
Isopropylbenzene	0.5	1.825986	1	1.841927	2	2.001292	5	1.830686	10	1.801343	50	1.792526
p-Isopropyltoluene	0.5	1.487683	1	1.413191	2	1.532052	5	1.456519	10	1.387423	50	1.37815
Methylene chloride	0.5	0.3181522	1	0.29304	2	0.2688618	5	0.2527078	10	0.2421513	50	0.2367567
Methyl Acetate	0.5	0.2270954	1	0.1895164	2	0.2359874	5	0.1841076	10	0.1812675	50	0.1659459
Methylcyclohexane	0.5	0.2502846	1	0.222548	2	0.235468	5	0.2274633	10	0.2074632	50	0.2146291
Naphthalene	0.5	1.28393	1	1.213484	2	1.30407	5	1.301191	10	1.23965	50	1.276068
Methyl Methacrylate	0.5	0.2020245	1	0.1965595	2	0.2208333	5	0.2072225	10	0.1968935	50	0.1905085
4-Methyl-2-pentanone	1	0.2377491	2	0.2298679	4	0.2386454	10	0.2254618	20	0.2208875	100	0.20822
Methyl t-Butyl Ether	0.5	0.5774817	1	0.5665194	2	0.5785876	5	0.5801729	10	0.5536569	50	0.5311237

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2011004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	1/6/12 8:49 1/6/12 12:34

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.311014	1	2.119158	2	2.309471	5	2.221438	10	2.12356	50	2.17659
Styrene	0.5	1.567815	1	1.517915	2	1.668433	5	1.565587	10	1.509273	50	1.603069
1,1,2,2-Tetrachloroethane	0.5	0.6542176	1	0.5887619	2	0.6496326	5	0.6389634	10	0.6186124	50	0.6115664
1,1,1,2-Tetrachloroethane	0.5	0.480024	1	0.4893985	2	0.5552793	5	0.5271817	10	0.5046919	50	0.5314135
tert-Butyl alcohol	2.5	1.505471E-02	5	1.619593E-02	10	1.866451E-02	25	1.825271E-02	50	0.0169003	250	1.516307E-02
Tetrachloroethene	0.5	0.6196099	1	0.5681541	2	0.6580967	5	0.5845123	10	0.5757528	50	0.5936625
Toluene	0.5	1.358752	1	1.373291	2	1.386617	5	1.312367	10	1.278747	50	1.267786
1,2,3-Trichlorobenzene	0.5	0.5778292	1	0.5115133	2	0.5502262	5	0.5281669	10	0.5108822	50	0.5300002
1,2,4-Trichlorobenzene	0.5	0.6652599	1	0.5647882	2	0.6373945	5	0.589974	10	0.5565634	50	0.5797486
1,1,2-Trichloroethane	0.5	0.4077046	1	0.4490661	2	0.4533132	5	0.4591447	10	0.4536798	50	0.4502663
1,1,1-Trichloroethane	0.5	0.2970877	1	0.2883651	2	0.307358	5	0.302428	10	0.2780521	50	0.2738227
Tetrahydrofuran	0.5		1	8.694627E-02	2	9.011454E-02	5	6.741642E-02	10	0.0634119	50	6.212034E-02
Trichloroethene	0.5	0.2530163	1	0.2316824	2	0.2466043	5	0.2328515	10	0.2243174	50	0.2144664
Trichlorofluoromethane	0.5	0.3106855	1	0.2965461	2	0.3382465	5	0.3158527	10	0.297503	50	0.2981497
1,2,3-Trichloropropane	0.5	0.1375332	1	0.1484424	2	0.1715382	5	0.1603318	10	0.1611793	50	0.1617741
1,3,5-Trimethylbenzene	0.5	1.557567	1	1.530026	2	1.597672	5	1.540824	10	1.514749	50	1.488827
1,2,4-Trimethylbenzene	0.5	1.614291	1	1.514562	2	1.627028	5	1.672709	10	1.556236	50	1.496979
1,1,2-Trichloro-1,2,2-trifluoroethar	0.5	0.2113123	1	0.1982203	2	0.2267605	5	0.2190789	10	0.204055	50	0.2082972
Vinyl chloride	0.5	0.2207822	1	0.2008037	2	0.2226512	5	0.1782495	10	0.191464	50	0.1720476
m,p-Xylene	1	1.90778	2	1.800361	4	1.96529	10	1.802451	20	1.747328	100	1.67976
o-Xylene	0.5	1.991468	1	1.915273	2	2.004049	5	1.884844	10	1.755247	50	1.808514
Vinyl acetate	0.996	0.4697588	1.992	0.5129341	3.984	0.5572453	9.96	0.5395889	19.92	0.5142655	99.62	0.4952973
Xylenes (total)	1.5	1.935676	3	1.838665	6	1.978209	15	1.829915	30	1.749967	150	1.722678
Dibromofluoromethane	30	0.300478	35	0.2962983	40	0.2901867	50	0.2786321	60	0.2805554	70	0.2654734
1,2-Dichloroethane-d4	30	6.007517E-02	35	6.069411E-02	40	5.627614E-02	50	0.0568408	60	5.688372E-02	70	5.376075E-02
Toluene-d8	30	2.35476	35	2.234245	40	2.280675	50	2.112041	60	2.169492	70	2.088149
tert-Amyl alcohol	2.5	0.0130029	5	1.288047E-02	10	0.0134492	25	1.308298E-02	50	1.229865E-02	250	1.206255E-02
tert-Amyl ethyl ether	0.5	0.5468259	1	0.5815281	2	0.60167	5	0.5791722	10	0.5562442	50	0.5435141

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2011004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	1/6/12 8:49 1/6/12 12:34

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	6.840238E-02	300	6.327703E-02	400	6.539198E-02						
Acrolein	500.5	2.525839E-02	750.8	2.379317E-02	1001	2.420215E-02						
Acrylonitrile	499.7	8.421197E-02	749.6	8.061115E-02	999.4	8.265219E-02						
Benzene	100	0.8238047	150	0.7807284	200	0.759281						
Bromobenzene	100	0.6623068	150	0.6610546	200	0.6507036						
Bromochloromethane	100	0.1412531	150	0.1336871	200	0.1312866						
Tert-Amyl Methyl Ether	100	0.6363808	150	0.5800117	200	0.5843138						
Bromodichloromethane	100	0.2963187	150	0.2845465	200	0.2799448						
Bromoform	100	0.5213094	150	0.5115891	200	0.5171277						
Bromomethane	100	0.1812619	150	0.1805642	200	0.1830554						
Bromofluorobenzene	30	1.020289	30	0.9718459	30	0.9911713						
n-Butylbenzene	100	1.261692	150	1.218387	200	1.170125						
2-Butanone	200	0.1212751	300	0.117579	400	0.1171103						
sec-Butylbenzene	100	1.645047	150	1.662902	200	1.547214						
tert-Butylbenzene	100	1.367332	150	1.345331	200	1.309463						
Carbon disulfide	100	0.7514947	150	0.724944	200	0.7284933						
Carbon tetrachloride	100	0.2530443	150	0.243776	200	0.2424461						
Chlorobenzene	100	1.48609	150	1.39112	200	1.394199						
Chloroethane	100	0.1651746	150	0.1557637	200	0.1595611						
Chloroform	100	0.3836072	150	0.3587965	200	0.3509863						
2-Chloroethyl vinyl ether	199.5	0.1552751	299.2	0.1454333	399	0.1452536						
Chloromethane	100	0.2739588	150	0.2684152	200	0.2622653						
1-Chlorohexane	100	0.6350822	150	0.6270059	200	0.6322465						
2-Chlorotoluene	100	1.349691	150	1.384648	200	1.304885						
4-Chlorotoluene	100	1.611909	150	1.600739	200	1.51511						
Cyclohexane	100	0.3006848	150	0.2858816	200	0.2862235						
Dibromochloromethane	100	0.6945121	150	0.6735623	200	0.6940503						
1,2-Dibromo-3-chloropropane	100	0.1468029	150	0.1517534	200	0.1560608						
1,2-Dibromoethane (EDB)	100	0.6299025	150	0.5943547	200	0.6186179						
Dibromomethane	100	0.1674192	150	0.1592365	200	0.1575043						
1,2-Dichlorobenzene	100	1.06236	150	1.024679	200	1.001634						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2011004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	1/6/12 8:49 1/6/12 12:34

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	1.054281	150	1.055899	200	1.007597						
1,4-Dichlorobenzene	100	1.070809	150	1.068599	200	1.030568						
Dichlorodifluoromethane	100	0.238552	150	0.2289638	200	0.2275247						
1,1-Dichloroethane	100	0.4246041	150	0.4046457	200	0.390202						
1,2-Dichloroethane	100	0.284239	150	0.2616644	200	0.2569983						
1,1-Dichloroethene	100	0.2141902	150	0.2057988	200	0.2145801						
cis-1,2-Dichloroethene	100	0.2457092	150	0.2343075	200	0.2368486						
trans-1,2-Dichloroethene	100	0.2300958	150	0.2204311	200	0.2225448						
1,2-Dichloroethene (total)	200	0.2379025	300	0.2273693	400	0.2296967						
1,2-Dichloropropane	100	0.2443097	150	0.2296434	200	0.2286445						
1,3-Dichloropropane	100	0.8924075	150	0.8422525	200	0.8547604						
2,2-Dichloropropane	100	0.2664378	150	0.2522102	200	0.2519803						
1,1-Dichloropropene	100	0.298074	150	0.2820662	200	0.2807297						
cis-1,3-Dichloropropene	100	0.3624957	150	0.3372328	200	0.3396853						
trans-1,3-Dichloropropene	100	0.8870757	150	0.8029358	200	0.7913708						
Diisopropyl Ether	100	0.8524936	150	0.81107	200	0.7806082						
Ethylbenzene	100	2.354578	150	2.120514	200	2.064044						
Ethyl tert-Butyl Ether	100	0.6685004	150	0.6223114	200	0.6199278						
Ethyl Methacrylate	100	0.7710764	150	0.7462247	200	0.7449815						
Hexachlorobutadiene	100	0.2627541	150	0.276623	200	0.2717933						
2-Hexanone	200	0.4342725	300	0.3983831	400	0.4138226						
Iodomethane	100	0.3924044	150	0.3808489	200	0.3798566						
Isopropylbenzene	100	1.874681	150	1.733129	200	1.698429						
p-Isopropyltoluene	100	1.391224	150	1.362157	200	1.324643						
Methylene chloride	100	0.2578361	150	0.2451741	200	0.2468627						
Methyl Acetate	100	0.1832243	150	0.1748652	200	0.1796074						
Methylcyclohexane	100	0.2301063	150	0.2346923	200	0.229254						
Naphthalene	100	1.331745	150	1.384501	200	1.336922						
Methyl Methacrylate	100	0.1965885	150	0.1908664	200	0.186286						
4-Methyl-2-pentanone	200	0.2240031	300	0.2113823	400	0.2131554						
Methyl t-Butyl Ether	100	0.5680552	150	0.5368452	200	0.5373366						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2011004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	1/6/12 8:49 1/6/12 12:34

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	2.068663	150	2.057718	200	1.954379						
Styrene	100	1.635283	150	1.538518	200	1.494041						
1,1,2,2-Tetrachloroethane	100	0.6357117	150	0.6719298	200	0.65479						
1,1,1,2-Tetrachloroethane	100	0.556232	150	0.5359604	200	0.5455617						
tert-Butyl alcohol	500	1.824846E-02	750	1.799841E-02	1000	1.760797E-02						
Tetrachloroethene	100	0.6148619	150	0.5889952	200	0.6057697						
Toluene	100	1.306264	150	1.192749	200	1.180517						
1,2,3-Trichlorobenzene	100	0.5417719	150	0.5641881	200	0.5593847						
1,2,4-Trichlorobenzene	100	0.5964962	150	0.6070519	200	0.5946947						
1,1,2-Trichloroethane	100	0.4791617	150	0.4547186	200	0.4617507						
1,1,1-Trichloroethane	100	0.2930975	150	0.2721367	200	0.2793273						
Tetrahydrofuran	100	6.976513E-02	150	~~5.886121E-02~~	200	~~6.404349E-02~~						
Trichloroethene	100	0.2288882	150	0.2216504	200	0.2174214						
Trichlorofluoromethane	100	0.3186577	150	0.3129281	200	0.3143692						
1,2,3-Trichloropropane	100	0.1742049	150	0.1702515	200	0.1749536						
1,3,5-Trimethylbenzene	100	1.433318	150	1.443886	200	1.365028						
1,2,4-Trimethylbenzene	100	1.557772	150	1.471524	200	1.401438						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2184536	150	0.2184004	200	0.2178584						
Vinyl chloride	100	0.1938319	150	0.1690258	200	0.1585416						
m,p-Xylene	200	1.626	300	1.471002	400	1.373884						
o-Xylene	100	1.855637	150	1.701865	200	1.628721						
Vinyl acetate	199.2	0.5296794	298.9	0.4921099	398.5	0.4817225						
Xylenes (total)	300	1.702546	450	1.547956	600	1.45883						
Dibromofluoromethane	30	0.3005112	30	0.2962413	30	0.2987464						
1,2-Dichloroethane-d4	30	6.205962E-02	30	6.004951E-02	30	5.929523E-02						
Toluene-d8	30	2.470441	30	2.468475	30	2.497404						
tert-Amyl alcohol	500	0.0138149	750	1.407104E-02	1000	1.465782E-02						
tert-Amyl ethyl ether	100	0.557275	150	0.5317157	200	0.5053606						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2011004	Instrument:	MS-VOA4		
Matrix:	Water	Calibration Dates:	1/6/12 8:49	1/6/12 12:34	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	7.637201E-02	19.20558	3.837111	0.1034709	0.9987951		0.995	
Acrolein	3.275551E-02	34.09303	3.721778	6.767667E-02	0.9990098		0.995	
Acrylonitrile	8.086036E-02	3.431582	4.664444	0.1251943			15	
Benzene	0.8265245	5.383026	7.689778	6.859723E-02			15	
Bromobenzene	0.6547124	2.659029	12.41278	3.534174E-02			15	
Bromochloromethane	0.1344402	4.957755	6.791889	7.837531E-02			15	
Tert-Amyl Methyl Ether	0.6225484	4.749438	7.874889	5.295584E-02			15	
Bromodichloromethane	0.2947954	4.284919	8.666444	0.0581257			15	
Bromoform	0.4571078	10.3293	11.82089	3.193005E-02			SPCC (0.1)	
Bromomethane	0.1882716	9.630826	2.88925	0.1718568			15	
Bromofluorobenzene	0.9167457	7.478808	12.25267	2.225876E-02			15	
n-Butylbenzene	1.261999	4.652187	13.84222	0.024947			15	
2-Butanone	0.123359	9.157966	6.250667	8.203309E-02			15	
sec-Butylbenzene	1.677247	4.875423	13.30178	4.197691E-02			15	
tert-Butylbenzene	1.370972	3.286644	13.06922	3.339714E-02			15	
Carbon disulfide	0.7280875	2.819596	4.836667	9.196641E-02			15	
Carbon tetrachloride	0.2413759	3.429831	7.657889	5.488948E-02			15	
Chlorobenzene	1.462044	4.717212	11.09844	2.186609E-02			SPCC (0.3)	
Chloroethane	0.1618473	4.541407	3.022667	0.1237572			15	
Chloroform	0.4026666	12.09692	6.764667	7.409076E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.14832	3.827301	9.021555	5.742235E-02			15	
Chloromethane	0.2830523	11.70564	2.299222	0.1137219			SPCC (0.1)	
1-Chlorohexane	0.676947	13.92183	11.06256	3.535821E-02			15	
2-Chlorotoluene	1.430396	5.887971	12.63411	4.045303E-02			15	
4-Chlorotoluene	1.654685	5.129992	12.69667	6.255846E-03			15	
Cyclohexane	0.2996872	5.650079	7.591	0.0689517			15	
Dibromochloromethane	0.6534156	4.628133	10.33144	4.404036E-02			15	
1,2-Dibromo-3-chloropropane	0.1325364	11.73279	14.44489	3.043544E-02			15	
1,2-Dibromoethane (EDB)	0.5969753	4.065334	10.54511	3.752935E-02			15	
Dibromomethane	0.1648794	4.893615	8.603778	3.239242E-02			15	
1,2-Dichlorobenzene	1.037515	3.239724	13.80256	2.667667E-02			15	
1,3-Dichlorobenzene	1.076644	4.732395	13.39278	3.781641E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2011004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	1/6/12 8:49 1/6/12 12:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.078006	3.614925	13.48367	2.878757E-02			15	
Dichlorodifluoromethane	0.2235251	4.298462	2.085556	0.1852325			15	
1,1-Dichloroethane	0.4118324	3.530376	5.814444	6.205191E-02			SPCC (0.1)	
1,2-Dichloroethane	0.2830731	6.27005	7.518667	3.590633E-02			15	
1,1-Dichloroethene	0.2185869	6.211544	4.311667	9.971813E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2422412	4.487146	6.515889	8.044807E-02			15	
trans-1,2-Dichloroethene	0.2320514	4.30646	5.446222	4.689926E-02			15	
1,2-Dichloroethene (total)	0.2371463	3.939299	0	0			15	
1,2-Dichloropropane	0.2403732	4.309562	8.490889	6.093833E-02			CCC (20)	
1,3-Dichloropropane	0.8578349	4.152439	10.07367	2.435231E-02			15	
2,2-Dichloropropane	0.2781471	7.71535	6.620111	3.572975E-02			15	
1,1-Dichloropropene	0.2943421	4.938977	7.539556	5.858253E-02			15	
cis-1,3-Dichloropropene	0.3513351	4.789296	9.236444	4.893457E-02			15	
trans-1,3-Dichloropropene	0.8709479	6.046711	9.707556	2.782621E-02			15	
Diisopropyl Ether	0.8597258	5.84109	6.176222	4.435771E-02			15	
Ethylbenzene	2.288806	6.55409	11.24211	4.629047E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6695059	5.363739	6.633	0.0876457			15	
Ethyl Methacrylate	0.7324996	4.27656	9.894111	4.157879E-02			15	
Hexachlorobutadiene	0.2640917	4.728033	15.80644	2.896382E-02			15	
2-Hexanone	0.4098624	3.757277	10.00678	3.691595E-02			15	
Iodomethane	0.2990843	26.80501	4.501333	9.463535E-02	0.9994085		0.995	
Isopropylbenzene	1.822222	4.747523	12.14089	4.125689E-02			15	
p-Isopropyltoluene	1.414782	4.631644	13.43978	2.791071E-02			15	
Methylene chloride	0.2623936	10.2699	4.786333	6.510921E-02			15	
Methyl Acetate	0.1912908	12.46535	4.648111	0.0868378			15	
Methylcyclohexane	0.2279899	5.446885	8.819667	3.024068E-02			15	
Naphthalene	1.29684	3.987961	15.67789	2.710664E-02			15	
Methyl Methacrylate	0.1986425	5.245019	8.621333	4.629479E-02			15	
4-Methyl-2-pentanone	0.2232636	4.933831	9.159667	0.0581008			15	
Methyl t-Butyl Ether	0.5588643	3.509635	5.434	8.690575E-02			15	
n-Propylbenzene	2.14911	5.51075	12.54978	2.655913E-02			15	
Styrene	1.566659	3.784981	11.71578	0.0482124			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2011004	Instrument:	MS-VOA4		
Matrix:	Water	Calibration Dates:	1/6/12 8:49	1/6/12 12:34	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6360206	4.047422	12.06644	1.410712E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5250825	5.294848	11.13933	2.459598E-02			15	
tert-Butyl alcohol	1.712067E-02	7.984318	4.447444	0.1092876			15	
Tetrachloroethene	0.6010461	4.559189	10.44078	3.440352E-02			15	
Toluene	1.295232	5.698501	9.710889	6.108741E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5415514	4.319346	15.964	2.815398E-02			15	
1,2,4-Trichlorobenzene	0.5991079	5.714696	15.52678	2.213845E-02			15	
1,1,2-Trichloroethane	0.4520895	4.189176	9.861	5.427956E-02			15	
1,1,1-Trichloroethane	0.2879639	4.458	7.321445	4.167841E-02			15	
Tetrahydrofuran	7.329577E-02	16.58463	6.966667	3.991461E-02	0.9968956		0.995	
Trichloroethene	0.2300998	5.580514	8.445111	2.155812E-02			15	
Trichlorofluoromethane	0.3114376	4.238866	3.525667	0.1064837			15	
1,2,3-Trichloropropane	0.1622454	7.738864	12.19133	3.745857E-02			15	
1,3,5-Trimethylbenzene	1.496877	4.811007	12.72844	0.0331799			15	
1,2,4-Trimethylbenzene	1.545838	5.477834	13.10122	2.253856E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2136041	4.151001	4.389333	9.363296E-02			15	
Vinyl chloride	0.1897108	11.84015	2.449444	0.1128293			CCC (20)	
m,p-Xylene	1.708206	11.34454	11.35733	4.035927E-02			15	
o-Xylene	1.838402	6.924633	11.74522	4.483148E-02			15	
Vinyl acetate	0.5102891	5.575662	5.883444	0.1006304			15	
Xylenes (total)	1.751605	9.667105	6.526222	94.86835			15	
Dibromofluoromethane	0.2896803	4.218212	6.935556	3.502668E-02			15	
1,2-Dichloroethane-d4	5.843723E-02	4.516811	7.428889	3.256323E-02			15	
Toluene-d8	2.297298	6.904486	9.635333	5.103081E-02			15	
tert-Amyl alcohol	1.325783E-02	6.285237	7.130778	6.734641E-02			15	
tert-Amyl ethyl ether	0.5559229	5.194072	8.755111	6.121651E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	SEQICV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A00902	Injection Date:	01/06/12
Lab Sample ID:	2A00902-ICV1	Injection Time:	13:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Carbon disulfide	A	50.00	40.05	0.7280875	0.583241		-19.9	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	SEQICV2.D	Calibration Date:	01/06/12 08:49
Sequence:	2A00902	Injection Date:	01/06/12
Lab Sample ID:	2A00902-ICV2	Injection Time:	13:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	L	200.0	189.2	7.637201E-02	6.164356E-02		-5.4	20
Benzene	A	100.0	94.83	0.8265245	0.7838009		-5.2	20
Bromobenzene	A	100.0	93.72	0.6547124	0.6135913		-6.3	20
Bromochloromethane	A	100.0	94.15	0.1344402	0.1265783		-5.8	20
Bromodichloromethane	A	100.0	88.79	0.2947954	0.2617489		-11.2	20
Bromoform	A	100.0	103.1	0.4571078	0.4713188	0.1	3.1	20
Bromomethane	A	100.0	96.31	0.1882716	0.1813164		-3.7	20
n-Butylbenzene	A	100.0	94.08	1.261999	1.187275		-5.9	20
2-Butanone	A	200.0	175.0	0.123359	0.1079145		-12.5	20
sec-Butylbenzene	A	100.0	92.94	1.677247	1.558875		-7.1	20
tert-Butylbenzene	A	100.0	94.92	1.370972	1.301348		-5.1	20
Carbon tetrachloride	A	100.0	98.72	0.2413759	0.238284		-1.3	20
Chlorobenzene	A	100.0	90.86	1.462044	1.328377	0.3	-9.1	20
Chloroethane	A	100.0	102.2	0.1618473	0.1653759		2.2	20
Chloroform	A	100.0	85.45	0.4026666	0.3440878		-14.5	20
Chloromethane	A	100.0	89.82	0.2830523	0.2542389	0.1	-10.2	20
2-Chlorotoluene	A	100.0	90.77	1.430396	1.29841		-9.2	20
4-Chlorotoluene	A	100.0	90.21	1.654685	1.492745		-9.8	20
Dibromochloromethane	A	100.0	94.38	0.6534156	0.6166799		-5.6	20
1,2-Dibromo-3-chloropropane	A	100.0	103.2	0.1325364	0.1368355		3.2	20
1,2-Dibromoethane (EDB)	A	100.0	95.04	0.5969753	0.5673534		-5.0	20
Dibromomethane	A	100.0	91.80	0.1648794	0.1513622		-8.2	20
1,2-Dichlorobenzene	A	100.0	92.37	1.037515	0.958391		-7.6	20
1,3-Dichlorobenzene	A	100.0	90.94	1.076644	0.9791329		-9.1	20
1,4-Dichlorobenzene	A	100.0	95.27	1.078006	1.026981		-4.7	20
Dichlorodifluoromethane	A	100.0	103.9	0.2235251	0.2321607		3.9	20
1,1-Dichloroethane	A	100.0	94.13	0.4118324	0.3876571	0.1	-5.9	20
1,2-Dichloroethane	A	100.0	90.93	0.2830731	0.2573927		-9.1	20
1,1-Dichloroethene	A	100.0	87.80	0.2185869	0.1919198		-12.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	SEQICV2.D	Calibration Date:	01/06/12 08:49
Sequence:	2A00902	Injection Date:	01/06/12
Lab Sample ID:	2A00902-ICV2	Injection Time:	13:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
cis-1,2-Dichloroethene	A	100.0	93.96	0.2422412	0.2276055		-6.0	20
trans-1,2-Dichloroethene	A	100.0	92.78	0.2320514	0.2152866		-7.2	20
1,2-Dichloropropane	A	100.0	91.30	0.2403732	0.2194586		-8.7	20
1,3-Dichloropropane	A	100.0	96.01	0.8578349	0.8235675		-4.0	20
2,2-Dichloropropane	A	100.0	86.25	0.2781471	0.2398998		-13.8	20
1,1-Dichloropropene	A	100.0	94.13	0.2943421	0.2770552		-5.9	20
cis-1,3-Dichloropropene	A	100.0	98.43	0.3513351	0.3458146		-1.6	20
trans-1,3-Dichloropropene	A	100.0	83.60	0.8709479	0.7280993		-16.4	20
Ethylbenzene	A	100.0	92.17	2.288806	2.109541		-7.8	20
Hexachlorobutadiene	A	100.0	93.28	0.2640917	0.2463477		-6.7	20
2-Hexanone	A	200.0	185.5	0.4098624	0.3802044		-7.2	20
Isopropylbenzene	A	100.0	87.32	1.822222	1.591173		-12.7	20
p-Isopropyltoluene	A	100.0	89.53	1.414782	1.266638		-10.5	20
Methylene chloride	A	100.0	88.97	0.2623936	0.2334517		-11.0	20
Naphthalene	A	100.0	96.40	1.29684	1.250219		-3.6	20
4-Methyl-2-pentanone	A	200.0	186.9	0.2232636	0.2086351		-6.6	20
Methyl t-Butyl Ether	A	100.0	95.28	0.5588643	0.5324821		-4.7	20
n-Propylbenzene	A	100.0	90.35	2.14911	1.941678		-9.7	20
Styrene	A	100.0	93.84	1.566659	1.470221		-6.2	20
1,1,2,2-Tetrachloroethane	A	100.0	95.99	0.6360206	0.6105293	0.3	-4.0	20
1,1,1,2-Tetrachloroethane	A	100.0	98.27	0.5250825	0.5159905		-1.7	20
Tetrachloroethene	A	100.0	94.38	0.6010461	0.5672643		-5.6	20
Toluene	A	100.0	92.14	1.295232	1.193365		-7.9	20
1,2,3-Trichlorobenzene	A	100.0	96.49	0.5415514	0.5225652		-3.5	20
1,2,4-Trichlorobenzene	A	100.0	94.16	0.5991079	0.5641469		-5.8	20
1,1,2-Trichloroethane	A	100.0	95.67	0.4520895	0.432498		-4.3	20
1,1,1-Trichloroethane	A	100.0	95.11	0.2879639	0.2738928		-4.9	20
Trichloroethene	A	100.0	92.99	0.2300998	0.2139701		-7.0	20
Trichlorofluoromethane	A	100.0	99.14	0.3114376	0.3087647		-0.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	SEQICV2.D	Calibration Date:	01/06/12 08:49
Sequence:	2A00902	Injection Date:	01/06/12
Lab Sample ID:	2A00902-ICV2	Injection Time:	13:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2,3-Trichloropropane	A	100.0	93.43	0.1622454	0.1515847		-6.6	20
1,3,5-Trimethylbenzene	A	100.0	93.67	1.496877	1.402112		-6.3	20
1,2,4-Trimethylbenzene	A	100.0	96.30	1.545838	1.488603		-3.7	20
Vinyl chloride	A	100.0	96.32	0.1897108	0.1827298		-3.7	20
Xylenes (total)	A	300.0	268.5	1.751605	1.568228		-10.5	20
Bromofluorobenzene	A	30.00	30.94	0.9167457	0.9455377		3.1	20
Dibromofluoromethane	A	30.00	30.68	0.2896803	0.2962878		2.3	20
1,2-Dichloroethane-d4	A	30.00	30.71	5.843723E-02	5.982259E-02		2.4	20
Toluene-d8	A	30.00	30.85	2.297298	2.362082		2.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0125CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A02606	Injection Date:	01/25/12
Lab Sample ID:	2A02606-CCV1	Injection Time:	07:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	259.9	7.637201E-02	8.458655E-02		30.0	20 *
Benzene	A	100.0	95.91	0.8265245	0.7926901		-4.1	20
Bromobenzene	A	100.0	100.8	0.6547124	0.6602616		0.8	20
Bromochloromethane	A	100.0	103.0	0.1344402	0.1384316		3.0	20
Bromodichloromethane	A	100.0	98.52	0.2947954	0.290429		-1.5	20
Bromoform	A	100.0	107.2	0.4571078	0.4898983	0.1	7.2	20
Bromomethane	A	100.0	77.10	0.1882716	0.1451645		-22.9	20 *
n-Butylbenzene	A	100.0	99.98	1.261999	1.26176		-0.02	20
2-Butanone	A	200.0	197.8	0.123359	0.1220282		-1.1	20
sec-Butylbenzene	A	100.0	98.15	1.677247	1.646273		-1.8	20
tert-Butylbenzene	A	100.0	99.01	1.370972	1.357436		-1.0	20
Carbon disulfide	A	100.0	100.9	0.7280875	0.734748		0.9	20
Carbon tetrachloride	A	100.0	102.9	0.2413759	0.2483123		2.9	20
Chlorobenzene	A	100.0	97.14	1.462044	1.420226	0.3	-2.9	20
Chloroethane	A	100.0	103.2	0.1618473	0.1670269		3.2	20
Chloroform	A	100.0	90.72	0.4026666	0.3652812		-9.3	20
Chloromethane	A	100.0	88.30	0.2830523	0.2499369	0.1	-11.7	20
2-Chlorotoluene	A	100.0	97.94	1.430396	1.400983		-2.1	20
4-Chlorotoluene	A	100.0	98.08	1.654685	1.623005		-1.9	20
Dibromochloromethane	A	100.0	102.8	0.6534156	0.6717082		2.8	20
1,2-Dibromo-3-chloropropane	A	100.0	107.9	0.1325364	0.1430601		7.9	20
1,2-Dibromoethane (EDB)	A	100.0	100.5	0.5969753	0.5997244		0.5	20
Dibromomethane	A	100.0	98.64	0.1648794	0.1626365		-1.4	20
1,2-Dichlorobenzene	A	100.0	99.74	1.037515	1.034842		-0.3	20
1,3-Dichlorobenzene	A	100.0	96.33	1.076644	1.037118		-3.7	20
1,4-Dichlorobenzene	A	100.0	98.96	1.078006	1.066799		-1.0	20
Dichlorodifluoromethane	A	100.0	102.6	0.2235251	0.2294603		2.7	20
1,1-Dichloroethane	A	100.0	99.27	0.4118324	0.4088117	0.1	-0.7	20
1,2-Dichloroethane	A	100.0	92.24	0.2830731	0.2611056		-7.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0125CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A02606	Injection Date:	01/25/12
Lab Sample ID:	2A02606-CCV1	Injection Time:	07:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	101.2	0.2185869	0.2212939		1.2	20
cis-1,2-Dichloroethene	A	100.0	97.32	0.2422412	0.2357464		-2.7	20
trans-1,2-Dichloroethene	A	100.0	97.84	0.2320514	0.2270512		-2.2	20
1,2-Dichloropropane	A	100.0	96.74	0.2403732	0.2325483		-3.3	20
1,3-Dichloropropane	A	100.0	99.64	0.8578349	0.8547072		-0.4	20
2,2-Dichloropropane	A	100.0	94.64	0.2781471	0.2632498		-5.4	20
1,1-Dichloropropene	A	100.0	95.59	0.2943421	0.2813754		-4.4	20
cis-1,3-Dichloropropene	A	100.0	97.96	0.3513351	0.3441795		-2.0	20
trans-1,3-Dichloropropene	A	100.0	91.76	0.8709479	0.7991848		-8.2	20
Ethylbenzene	A	100.0	95.51	2.288806	2.185955		-4.5	20
Hexachlorobutadiene	A	100.0	94.75	0.2640917	0.2502249		-5.3	20
2-Hexanone	A	200.0	189.4	0.4098624	0.3880744		-5.3	20
Isopropylbenzene	A	100.0	91.28	1.822222	1.663411		-8.7	20
p-Isopropyltoluene	A	100.0	96.15	1.414782	1.36029		-3.9	20
Methylene chloride	A	100.0	94.96	0.2623936	0.2491621		-5.0	20
Naphthalene	A	100.0	104.9	1.29684	1.360058		4.9	20
4-Methyl-2-pentanone	A	200.0	181.3	0.2232636	0.2023906		-9.3	20
Methyl t-Butyl Ether	A	100.0	92.84	0.5588643	0.5188572		-7.2	20
n-Propylbenzene	A	100.0	99.57	2.14911	2.139786		-0.4	20
Styrene	A	100.0	94.68	1.566659	1.483286		-5.3	20
1,1,2,2-Tetrachloroethane	A	100.0	105.9	0.6360206	0.673754	0.3	5.9	20
1,1,1,2-Tetrachloroethane	A	100.0	90.31	0.5250825	0.4741859		-9.7	20
Tetrachloroethene	A	100.0	101.4	0.6010461	0.6097184		1.4	20
Toluene	A	100.0	92.71	1.295232	1.200818		-7.3	20
1,2,3-Trichlorobenzene	A	100.0	98.31	0.5415514	0.5324		-1.7	20
1,2,4-Trichlorobenzene	A	100.0	105.1	0.5991079	0.6294858		5.1	20
1,1,2-Trichloroethane	A	100.0	100.1	0.4520895	0.4525134		0.09	20
1,1,1-Trichloroethane	A	100.0	95.52	0.2879639	0.2750687		-4.5	20
Trichloroethene	A	100.0	97.06	0.2300998	0.2233304		-2.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0125CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A02606	Injection Date:	01/25/12
Lab Sample ID:	2A02606-CCV1	Injection Time:	07:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	102.1	0.3114376	0.318025		2.1	20
1,2,3-Trichloropropane	A	100.0	96.90	0.1622454	0.1572095		-3.1	20
1,3,5-Trimethylbenzene	A	100.0	97.34	1.496877	1.457068		-2.7	20
1,2,4-Trimethylbenzene	A	100.0	97.74	1.545838	1.510826		-2.3	20
Vinyl chloride	A	100.0	94.98	0.1897108	0.1801887		-5.0	20
Xylenes (total)	A	300.0	273.2	1.751605	1.595357		-8.9	20
Bromofluorobenzene	A	30.00	31.80	0.9167457	0.9717225		6.0	20
Dibromofluoromethane	A	30.00	31.99	0.2896803	0.3088726		6.6	20
1,2-Dichloroethane-d4	A	30.00	31.83	5.843723E-02	6.201068E-02		6.1	20
Toluene-d8	A	30.00	31.31	2.297298	2.397589		4.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0126CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A02704	Injection Date:	01/26/12
Lab Sample ID:	2A02704-CCV1	Injection Time:	08:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	241.4	7.637201E-02	0.0786023		20.7	20 *
Benzene	A	100.0	97.24	0.8265245	0.8036985		-2.8	20
Bromobenzene	A	100.0	99.07	0.6547124	0.6486264		-0.9	20
Bromochloromethane	A	100.0	103.7	0.1344402	0.1394008		3.7	20
Bromodichloromethane	A	100.0	97.75	0.2947954	0.2881663		-2.2	20
Bromoform	A	100.0	109.9	0.4571078	0.5022252	0.1	9.9	20
Bromomethane	A	100.0	67.27	0.1882716	0.1266435		-32.7	20 *
n-Butylbenzene	A	100.0	101.6	1.261999	1.281921		1.6	20
2-Butanone	A	200.0	184.9	0.123359	0.1140238		-7.6	20
sec-Butylbenzene	A	100.0	98.71	1.677247	1.655593		-1.3	20
tert-Butylbenzene	A	100.0	98.32	1.370972	1.347871		-1.7	20
Carbon disulfide	A	100.0	104.8	0.7280875	0.7632646		4.8	20
Carbon tetrachloride	A	100.0	104.0	0.2413759	0.2511721		4.1	20
Chlorobenzene	A	100.0	101.2	1.462044	1.480015	0.3	1.2	20
Chloroethane	A	100.0	101.7	0.1618473	0.1646298		1.7	20
Chloroform	A	100.0	90.34	0.4026666	0.3637852		-9.7	20
Chloromethane	A	100.0	65.12	0.2830523	0.1843195	0.1	-34.9	20 *
2-Chlorotoluene	A	100.0	97.18	1.430396	1.390058		-2.8	20
4-Chlorotoluene	A	100.0	94.78	1.654685	1.568341		-5.2	20
Dibromochloromethane	A	100.0	105.2	0.6534156	0.6876648		5.2	20
1,2-Dibromo-3-chloropropane	A	100.0	105.1	0.1325364	0.1392536		5.1	20
1,2-Dibromoethane (EDB)	A	100.0	101.7	0.5969753	0.6069311		1.7	20
Dibromomethane	A	100.0	99.35	0.1648794	0.163801		-0.7	20
1,2-Dichlorobenzene	A	100.0	101.8	1.037515	1.055721		1.8	20
1,3-Dichlorobenzene	A	100.0	98.06	1.076644	1.055821		-1.9	20
1,4-Dichlorobenzene	A	100.0	100.2	1.078006	1.080103		0.2	20
Dichlorodifluoromethane	A	100.0	104.6	0.2235251	0.2337973		4.6	20
1,1-Dichloroethane	A	100.0	97.50	0.4118324	0.4015511	0.1	-2.5	20
1,2-Dichloroethane	A	100.0	94.58	0.2830731	0.2677224		-5.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0126CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A02704	Injection Date:	01/26/12
Lab Sample ID:	2A02704-CCV1	Injection Time:	08:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	101.7	0.2185869	0.2222291		1.7	20
cis-1,2-Dichloroethene	A	100.0	99.74	0.2422412	0.2416126		-0.3	20
trans-1,2-Dichloroethene	A	100.0	99.23	0.2320514	0.2302756		-0.8	20
1,2-Dichloropropane	A	100.0	96.39	0.2403732	0.2317067		-3.6	20
1,3-Dichloropropane	A	100.0	99.52	0.8578349	0.8537463		-0.5	20
2,2-Dichloropropane	A	100.0	93.17	0.2781471	0.259141		-6.8	20
1,1-Dichloropropene	A	100.0	98.50	0.2943421	0.2899358		-1.5	20
cis-1,3-Dichloropropene	A	100.0	97.10	0.3513351	0.3411381		-2.9	20
trans-1,3-Dichloropropene	A	100.0	94.02	0.8709479	0.8188434		-6.0	20
Ethylbenzene	A	100.0	100.7	2.288806	2.304495		0.7	20
Hexachlorobutadiene	A	100.0	96.48	0.2640917	0.2548077		-3.5	20
2-Hexanone	A	200.0	185.8	0.4098624	0.380754		-7.1	20
Isopropylbenzene	A	100.0	100.8	1.822222	1.836148		0.8	20
p-Isopropyltoluene	A	100.0	96.06	1.414782	1.359036		-3.9	20
Methylene chloride	A	100.0	97.66	0.2623936	0.2562466		-2.3	20
Naphthalene	A	100.0	108.5	1.29684	1.407298		8.5	20
4-Methyl-2-pentanone	A	200.0	177.4	0.2232636	0.197992		-11.3	20
Methyl t-Butyl Ether	A	100.0	91.61	0.5588643	0.5119679		-8.4	20
n-Propylbenzene	A	100.0	96.80	2.14911	2.080401		-3.2	20
Styrene	A	100.0	103.8	1.566659	1.627		3.9	20
1,1,2,2-Tetrachloroethane	A	100.0	103.6	0.6360206	0.6589261	0.3	3.6	20
1,1,1,2-Tetrachloroethane	A	100.0	104.6	0.5250825	0.5491184		4.6	20
Tetrachloroethene	A	100.0	102.6	0.6010461	0.6169639		2.6	20
Toluene	A	100.0	96.42	1.295232	1.24884		-3.6	20
1,2,3-Trichlorobenzene	A	100.0	100.7	0.5415514	0.5454846		0.7	20
1,2,4-Trichlorobenzene	A	100.0	104.1	0.5991079	0.6238923		4.1	20
1,1,2-Trichloroethane	A	100.0	102.9	0.4520895	0.4650929		2.9	20
1,1,1-Trichloroethane	A	100.0	98.36	0.2879639	0.2832319		-1.6	20
Trichloroethene	A	100.0	99.83	0.2300998	0.2297184		-0.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0126CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A02704	Injection Date:	01/26/12
Lab Sample ID:	2A02704-CCV1	Injection Time:	08:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	104.1	0.3114376	0.3241895		4.1	20
1,2,3-Trichloropropane	A	100.0	101.0	0.1622454	0.1639209		1.0	20
1,3,5-Trimethylbenzene	A	100.0	94.82	1.496877	1.419317		-5.2	20
1,2,4-Trimethylbenzene	A	100.0	95.70	1.545838	1.479353		-4.3	20
Vinyl chloride	A	100.0	99.70	0.1897108	0.189141		-0.3	20
Xylenes (total)	A	300.0	280.9	1.751605	1.640684		-6.3	20
Bromofluorobenzene	A	30.00	33.16	0.9167457	1.013187		10.5	20
Dibromofluoromethane	A	30.00	31.59	0.2896803	0.3050015		5.3	20
1,2-Dichloroethane-d4	A	30.00	32.25	5.843723E-02	0.0628128		7.5	20
Toluene-d8	A	30.00	32.69	2.297298	2.503352		9.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0127CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A03011	Injection Date:	01/27/12
Lab Sample ID:	2A03011-CCV1	Injection Time:	09:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	321.3	7.637201E-02	0.1045288		60.6	20 *
Benzene	A	100.0	104.6	0.8265245	0.8645509		4.6	20
Bromobenzene	A	100.0	103.0	0.6547124	0.674331		3.0	20
Bromochloromethane	A	100.0	112.5	0.1344402	0.1512649		12.5	20
Bromodichloromethane	A	100.0	109.6	0.2947954	0.3231535		9.6	20
Bromoform	A	100.0	108.8	0.4571078	0.4973952	0.1	8.8	20
Bromomethane	A	100.0	88.99	0.1882716	0.1675445		-11.0	20
n-Butylbenzene	A	100.0	99.93	1.261999	1.26107		-0.07	20
2-Butanone	A	200.0	208.6	0.123359	0.1286333		4.3	20
sec-Butylbenzene	A	100.0	96.37	1.677247	1.616353		-3.6	20
tert-Butylbenzene	A	100.0	96.77	1.370972	1.326753		-3.2	20
Carbon disulfide	A	100.0	109.8	0.7280875	0.7996157		9.8	20
Carbon tetrachloride	A	100.0	109.8	0.2413759	0.2651321		9.8	20
Chlorobenzene	A	100.0	103.6	1.462044	1.51427	0.3	3.6	20
Chloroethane	A	100.0	111.1	0.1618473	0.1798332		11.1	20
Chloroform	A	100.0	100.2	0.4026666	0.4035771		0.2	20
Chloromethane	A	100.0	81.94	0.2830523	0.2319251	0.1	-18.1	20
2-Chlorotoluene	A	100.0	98.13	1.430396	1.40368		-1.9	20
4-Chlorotoluene	A	100.0	98.47	1.654685	1.629324		-1.5	20
Dibromochloromethane	A	100.0	106.3	0.6534156	0.694541		6.3	20
1,2-Dibromo-3-chloropropane	A	100.0	102.2	0.1325364	0.135418		2.2	20
1,2-Dibromoethane (EDB)	A	100.0	102.0	0.5969753	0.6090762		2.0	20
Dibromomethane	A	100.0	110.1	0.1648794	0.1815171		10.1	20
1,2-Dichlorobenzene	A	100.0	101.9	1.037515	1.057424		1.9	20
1,3-Dichlorobenzene	A	100.0	101.1	1.076644	1.088514		1.1	20
1,4-Dichlorobenzene	A	100.0	104.0	1.078006	1.121351		4.0	20
Dichlorodifluoromethane	A	100.0	103.5	0.2235251	0.2313582		3.5	20
1,1-Dichloroethane	A	100.0	107.3	0.4118324	0.4419719	0.1	7.3	20
1,2-Dichloroethane	A	100.0	104.9	0.2830731	0.2970785		4.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0127CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A03011	Injection Date:	01/27/12
Lab Sample ID:	2A03011-CCV1	Injection Time:	09:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	109.7	0.2185869	0.2397693		9.7	20
cis-1,2-Dichloroethene	A	100.0	107.4	0.2422412	0.260118		7.4	20
trans-1,2-Dichloroethene	A	100.0	105.3	0.2320514	0.2442716		5.3	20
1,2-Dichloropropane	A	100.0	107.0	0.2403732	0.2573035		7.0	20
1,3-Dichloropropane	A	100.0	108.0	0.8578349	0.9266168		8.0	20
2,2-Dichloropropane	A	100.0	104.5	0.2781471	0.290753		4.5	20
1,1-Dichloropropene	A	100.0	104.7	0.2943421	0.3082727		4.7	20
cis-1,3-Dichloropropene	A	100.0	105.1	0.3513351	0.3691795		5.1	20
trans-1,3-Dichloropropene	A	100.0	95.32	0.8709479	0.8301572		-4.7	20
Ethylbenzene	A	100.0	98.31	2.288806	2.250144		-1.7	20
Hexachlorobutadiene	A	100.0	92.94	0.2640917	0.245436		-7.1	20
2-Hexanone	A	200.0	201.5	0.4098624	0.4129952		0.8	20
Isopropylbenzene	A	100.0	100.4	1.822222	1.829919		0.4	20
p-Isopropyltoluene	A	100.0	98.94	1.414782	1.399798		-1.1	20
Methylene chloride	A	100.0	104.4	0.2623936	0.2739292		4.4	20
Naphthalene	A	100.0	101.2	1.29684	1.312331		1.2	20
4-Methyl-2-pentanone	A	200.0	185.1	0.2232636	0.2066569		-7.4	20
Methyl t-Butyl Ether	A	100.0	94.94	0.5588643	0.5305939		-5.1	20
n-Propylbenzene	A	100.0	98.34	2.14911	2.11334		-1.7	20
Styrene	A	100.0	101.5	1.566659	1.590633		1.5	20
1,1,2,2-Tetrachloroethane	A	100.0	100.4	0.6360206	0.6383237	0.3	0.4	20
1,1,1,2-Tetrachloroethane	A	100.0	105.6	0.5250825	0.5543255		5.6	20
Tetrachloroethene	A	100.0	102.4	0.6010461	0.6152982		2.4	20
Toluene	A	100.0	95.56	1.295232	1.237667		-4.4	20
1,2,3-Trichlorobenzene	A	100.0	97.40	0.5415514	0.5274864		-2.6	20
1,2,4-Trichlorobenzene	A	100.0	103.1	0.5991079	0.6176667		3.1	20
1,1,2-Trichloroethane	A	100.0	102.4	0.4520895	0.4629698		2.4	20
1,1,1-Trichloroethane	A	100.0	104.2	0.2879639	0.3000279		4.2	20
Trichloroethene	A	100.0	108.1	0.2300998	0.2488059		8.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0127CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A03011	Injection Date:	01/27/12
Lab Sample ID:	2A03011-CCV1	Injection Time:	09:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	107.9	0.3114376	0.3359174		7.9	20
1,2,3-Trichloropropane	A	100.0	99.25	0.1622454	0.1610324		-0.7	20
1,3,5-Trimethylbenzene	A	100.0	98.77	1.496877	1.478469		-1.2	20
1,2,4-Trimethylbenzene	A	100.0	97.26	1.545838	1.503441		-2.7	20
Vinyl chloride	A	100.0	106.1	0.1897108	0.201285		6.1	20
Xylenes (total)	A	300.0	287.6	1.751605	1.680305		-4.1	20
Bromofluorobenzene	A	30.00	31.34	0.9167457	0.957555		4.5	20
Dibromofluoromethane	A	30.00	33.10	0.2896803	0.3196327		10.3	20
1,2-Dichloroethane-d4	A	30.00	34.04	5.843723E-02	6.629816E-02		13.5	20
Toluene-d8	A	30.00	31.13	2.297298	2.383787		3.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0130CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A03101	Injection Date:	01/30/12
Lab Sample ID:	2A03101-CCV1	Injection Time:	08:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	L	200.0	198.0	7.637201E-02	0.0645129		-1.0	20	
Benzene	A	100.0	102.0	0.8265245	0.8431034		2.0	20	
Bromobenzene	A	100.0	103.2	0.6547124	0.6756769		3.2	20	
Bromochloromethane	A	100.0	107.2	0.1344402	0.1440655		7.2	20	
Bromodichloromethane	A	100.0	102.6	0.2947954	0.3024533		2.6	20	
Bromoform	A	100.0	106.0	0.4571078	0.484794	0.1	6.1	20	
Bromomethane	A	100.0	73.64	0.1882716	0.1386435		-26.4	20	*
n-Butylbenzene	A	100.0	101.8	1.261999	1.284928		1.8	20	
2-Butanone	A	200.0	163.0	0.123359	0.1005565		-18.5	20	
sec-Butylbenzene	A	100.0	100.5	1.677247	1.685268		0.5	20	
tert-Butylbenzene	A	100.0	100.2	1.370972	1.373106		0.2	20	
Carbon disulfide	A	100.0	107.5	0.7280875	0.7828943		7.5	20	
Carbon tetrachloride	A	100.0	111.2	0.2413759	0.268469		11.2	20	
Chlorobenzene	A	100.0	101.0	1.462044	1.476975	0.3	1.0	20	
Chloroethane	A	100.0	106.1	0.1618473	0.1716694		6.1	20	
Chloroform	A	100.0	95.29	0.4026666	0.3837123		-4.7	20	
Chloromethane	A	100.0	74.07	0.2830523	0.2096471	0.1	-25.9	20	*
2-Chlorotoluene	A	100.0	96.34	1.430396	1.377978		-3.7	20	
4-Chlorotoluene	A	100.0	98.64	1.654685	1.632123		-1.4	20	
Dibromochloromethane	A	100.0	104.2	0.6534156	0.6808718		4.2	20	
1,2-Dibromo-3-chloropropane	A	100.0	105.0	0.1325364	0.1391914		5.0	20	
1,2-Dibromoethane (EDB)	A	100.0	100.7	0.5969753	0.6011407		0.7	20	
Dibromomethane	A	100.0	102.7	0.1648794	0.1693265		2.7	20	
1,2-Dichlorobenzene	A	100.0	100.9	1.037515	1.047335		0.9	20	
1,3-Dichlorobenzene	A	100.0	99.80	1.076644	1.074445		-0.2	20	
1,4-Dichlorobenzene	A	100.0	96.61	1.078006	1.041505		-3.4	20	
Dichlorodifluoromethane	A	100.0	98.78	0.2235251	0.2207986		-1.2	20	
1,1-Dichloroethane	A	100.0	103.8	0.4118324	0.4274207	0.1	3.8	20	
1,2-Dichloroethane	A	100.0	98.77	0.2830731	0.2795974		-1.2	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0130CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A03101	Injection Date:	01/30/12
Lab Sample ID:	2A03101-CCV1	Injection Time:	08:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	104.7	0.2185869	0.2288476		4.7	20
cis-1,2-Dichloroethene	A	100.0	101.0	0.2422412	0.244612		1.0	20
trans-1,2-Dichloroethene	A	100.0	99.52	0.2320514	0.2309509		-0.5	20
1,2-Dichloropropane	A	100.0	102.1	0.2403732	0.2453383		2.1	20
1,3-Dichloropropane	A	100.0	97.93	0.8578349	0.8400527		-2.1	20
2,2-Dichloropropane	A	100.0	99.65	0.2781471	0.2771758		-0.3	20
1,1-Dichloropropene	A	100.0	101.9	0.2943421	0.2999751		1.9	20
cis-1,3-Dichloropropene	A	100.0	103.3	0.3513351	0.3629092		3.3	20
trans-1,3-Dichloropropene	A	100.0	91.36	0.8709479	0.7956908		-8.6	20
Ethylbenzene	A	100.0	97.29	2.288806	2.226884		-2.7	20
Hexachlorobutadiene	A	100.0	95.75	0.2640917	0.2528602		-4.3	20
2-Hexanone	A	200.0	176.9	0.4098624	0.362585		-11.5	20
Isopropylbenzene	A	100.0	100.4	1.822222	1.829178		0.4	20
p-Isopropyltoluene	A	100.0	98.09	1.414782	1.387762		-1.9	20
Methylene chloride	A	100.0	100.3	0.2623936	0.263079		0.3	20
Naphthalene	A	100.0	100.2	1.29684	1.299574		0.2	20
4-Methyl-2-pentanone	A	200.0	177.0	0.2232636	0.1975469		-11.5	20
Methyl t-Butyl Ether	A	100.0	91.61	0.5588643	0.5119922		-8.4	20
n-Propylbenzene	A	100.0	99.06	2.14911	2.128951		-0.9	20
Styrene	A	100.0	98.74	1.566659	1.546871		-1.3	20
1,1,2,2-Tetrachloroethane	A	100.0	99.20	0.6360206	0.6309455	0.3	-0.8	20
1,1,1,2-Tetrachloroethane	A	100.0	102.9	0.5250825	0.540276		2.9	20
Tetrachloroethene	A	100.0	106.0	0.6010461	0.6373105		6.0	20
Toluene	A	100.0	93.00	1.295232	1.204518		-7.0	20
1,2,3-Trichlorobenzene	A	100.0	100.6	0.5415514	0.5450706		0.6	20
1,2,4-Trichlorobenzene	A	100.0	104.4	0.5991079	0.6257817		4.5	20
1,1,2-Trichloroethane	A	100.0	100.6	0.4520895	0.4547954		0.6	20
1,1,1-Trichloroethane	A	100.0	101.6	0.2879639	0.2927255		1.7	20
Trichloroethene	A	100.0	103.8	0.2300998	0.2387565		3.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0130CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2A03101	Injection Date:	01/30/12
Lab Sample ID:	2A03101-CCV1	Injection Time:	08:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	105.2	0.3114376	0.3274997		5.2	20
1,2,3-Trichloropropane	A	100.0	99.44	0.1622454	0.1613341		-0.6	20
1,3,5-Trimethylbenzene	A	100.0	98.09	1.496877	1.468308		-1.9	20
1,2,4-Trimethylbenzene	A	100.0	99.62	1.545838	1.540056		-0.4	20
Vinyl chloride	A	100.0	98.50	0.1897108	0.1868559		-1.5	20
Xylenes (total)	A	300.0	277.6	1.751605	1.621159		-7.4	20
Bromofluorobenzene	A	30.00	32.81	0.9167457	1.002572		9.4	20
Dibromofluoromethane	A	30.00	32.14	0.2896803	0.3103271		7.1	20
1,2-Dichloroethane-d4	A	30.00	33.52	5.843723E-02	6.528468E-02		11.7	20
Toluene-d8	A	30.00	31.75	2.297298	2.431107		5.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0131CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2B03201	Injection Date:	01/31/12
Lab Sample ID:	2B03201-CCV1	Injection Time:	11:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	316.4	7.637201E-02	0.1029293		58.2	20 *
Benzene	A	100.0	103.9	0.8265245	0.8585104		3.9	20
Bromobenzene	A	100.0	109.2	0.6547124	0.7150101		9.2	20
Bromochloromethane	A	100.0	110.2	0.1344402	0.148213		10.2	20
Bromodichloromethane	A	100.0	104.2	0.2947954	0.3070559		4.2	20
Bromoform	A	100.0	118.1	0.4571078	0.5397904	0.1	18.1	20
Bromomethane	A	100.0	90.91	0.1882716	0.1711526		-9.1	20
n-Butylbenzene	A	100.0	100.4	1.261999	1.267759		0.5	20
2-Butanone	A	200.0	217.9	0.123359	0.1344167		9.0	20
sec-Butylbenzene	A	100.0	103.8	1.677247	1.740176		3.8	20
tert-Butylbenzene	A	100.0	103.8	1.370972	1.423517		3.8	20
Carbon disulfide	A	100.0	111.6	0.7280875	0.812926		11.7	20
Carbon tetrachloride	A	100.0	111.2	0.2413759	0.268515		11.2	20
Chlorobenzene	A	100.0	104.6	1.462044	1.529149	0.3	4.6	20
Chloroethane	A	100.0	109.0	0.1618473	0.1764658		9.0	20
Chloroform	A	100.0	97.78	0.4026666	0.3937214		-2.2	20
Chloromethane	A	100.0	83.11	0.2830523	0.2352561	0.1	-16.9	20
2-Chlorotoluene	A	100.0	100.7	1.430396	1.440622		0.7	20
4-Chlorotoluene	A	100.0	105.2	1.654685	1.741368		5.2	20
Dibromochloromethane	A	100.0	111.2	0.6534156	0.7268174		11.2	20
1,2-Dibromo-3-chloropropane	A	100.0	114.6	0.1325364	0.1519541		14.7	20
1,2-Dibromoethane (EDB)	A	100.0	107.9	0.5969753	0.6439196		7.9	20
Dibromomethane	A	100.0	105.3	0.1648794	0.1736801		5.3	20
1,2-Dichlorobenzene	A	100.0	108.2	1.037515	1.123063		8.2	20
1,3-Dichlorobenzene	A	100.0	104.7	1.076644	1.126887		4.7	20
1,4-Dichlorobenzene	A	100.0	102.4	1.078006	1.104318		2.4	20
Dichlorodifluoromethane	A	100.0	104.0	0.2235251	0.232416		4.0	20
1,1-Dichloroethane	A	100.0	103.4	0.4118324	0.4258179	0.1	3.4	20
1,2-Dichloroethane	A	100.0	97.18	0.2830731	0.2750934		-2.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0131CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2B03201	Injection Date:	01/31/12
Lab Sample ID:	2B03201-CCV1	Injection Time:	11:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	110.6	0.2185869	0.2417486		10.6	20
cis-1,2-Dichloroethene	A	100.0	105.8	0.2422412	0.2562531		5.8	20
trans-1,2-Dichloroethene	A	100.0	105.0	0.2320514	0.243607		5.0	20
1,2-Dichloropropane	A	100.0	102.5	0.2403732	0.2463701		2.5	20
1,3-Dichloropropane	A	100.0	101.8	0.8578349	0.8736849		1.8	20
2,2-Dichloropropane	A	100.0	100.4	0.2781471	0.2792774		0.4	20
1,1-Dichloropropene	A	100.0	103.3	0.2943421	0.3040875		3.3	20
cis-1,3-Dichloropropene	A	100.0	102.0	0.3513351	0.3583192		2.0	20
trans-1,3-Dichloropropene	A	100.0	96.94	0.8709479	0.84434		-3.1	20
Ethylbenzene	A	100.0	103.8	2.288806	2.37525		3.8	20
Hexachlorobutadiene	A	100.0	86.37	0.2640917	0.2280917		-13.6	20
2-Hexanone	A	200.0	208.8	0.4098624	0.4280102		4.4	20
Isopropylbenzene	A	100.0	103.2	1.822222	1.881167		3.2	20
p-Isopropyltoluene	A	100.0	101.9	1.414782	1.441704		1.9	20
Methylene chloride	A	100.0	103.2	0.2623936	0.2707278		3.2	20
Naphthalene	A	100.0	102.4	1.29684	1.327439		2.4	20
4-Methyl-2-pentanone	A	200.0	184.9	0.2232636	0.2064075		-7.5	20
Methyl t-Butyl Ether	A	100.0	95.77	0.5588643	0.5352397		-4.2	20
n-Propylbenzene	A	100.0	104.3	2.14911	2.24117		4.3	20
Styrene	A	100.0	104.4	1.566659	1.636015		4.4	20
1,1,2,2-Tetrachloroethane	A	100.0	109.9	0.6360206	0.699001	0.3	9.9	20
1,1,1,2-Tetrachloroethane	A	100.0	108.4	0.5250825	0.5692935		8.4	20
Tetrachloroethene	A	100.0	111.3	0.6010461	0.6690534		11.3	20
Toluene	A	100.0	100.9	1.295232	1.306598		0.9	20
1,2,3-Trichlorobenzene	A	100.0	91.46	0.5415514	0.4952941		-8.5	20
1,2,4-Trichlorobenzene	A	100.0	102.9	0.5991079	0.6166122		2.9	20
1,1,2-Trichloroethane	A	100.0	109.1	0.4520895	0.4933514		9.1	20
1,1,1-Trichloroethane	A	100.0	104.6	0.2879639	0.3012795		4.6	20
Trichloroethene	A	100.0	107.2	0.2300998	0.2467468		7.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	2011004
Lab File ID:	0131CCV1.D	Calibration Date:	01/06/12 08:49
Sequence:	2B03201	Injection Date:	01/31/12
Lab Sample ID:	2B03201-CCV1	Injection Time:	11:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	106.2	0.3114376	0.3308792		6.2	20
1,2,3-Trichloropropane	A	100.0	103.8	0.1622454	0.1684139		3.8	20
1,3,5-Trimethylbenzene	A	100.0	103.8	1.496877	1.553567		3.8	20
1,2,4-Trimethylbenzene	A	100.0	102.1	1.545838	1.578016		2.1	20
Vinyl chloride	A	100.0	106.0	0.1897108	0.2011427		6.0	20
Xylenes (total)	A	300.0	298.8	1.751605	1.744355		-0.4	20
Bromofluorobenzene	A	30.00	32.32	0.9167457	0.9875603		7.7	20
Dibromofluoromethane	A	30.00	31.19	0.2896803	0.3011549		4.0	20
1,2-Dichloroethane-d4	A	30.00	30.04	5.843723E-02	5.851799E-02		0.1	20
Toluene-d8	A	30.00	32.84	2.297298	2.514887		9.5	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-BLK1 File ID: 0125BLK1.D

Sampled: Prepared: Analyzed: 01/25/12 09:29

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-BLK1 File ID: 0125BLK1.D

Sampled: Prepared: Analyzed: 01/25/12 09:29

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.50	102	75 - 120	
Dibromofluoromethane	30.00	31.75	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.00	103	70 - 120	
Toluene-d8	30.00	31.05	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_041

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

Matrix: | Laboratory ID: 2A25013-BS1 | File ID: 0125LCS1.D

Sampled: | Prepared: | Analyzed: 01/25/12 08:04

Solids: | Preparation: 5030B | Dilution:

Batch: 2A25013 | Sequence: 2A02606 | Calibration: 2011004 | Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	88.2	2.50	5.00	10.0	X
71-43-2	Benzene	50.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	46.4	0.250	0.500	1.00	
75-25-2	Bromoform	52.6	0.250	0.500	1.00	
74-83-9	Bromomethane	46.1	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	50.5	0.250	0.500	1.00	
78-93-3	2-Butanone	86.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.4	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	42.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.9	0.250	0.500	1.00	
75-00-3	Chloroethane	53.9	0.500	1.00	2.00	
67-66-3	Chloroform	45.8	0.250	0.500	1.00	
74-87-3	Chloromethane	46.2	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	46.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	47.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	49.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	48.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	48.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	47.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	48.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	45.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	46.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	49.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.1	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	43.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.6	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-BS1 File ID: 0125LCS1.D

Sampled: Prepared: Analyzed: 01/25/12 08:04

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	88.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	44.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	47.7	0.500	1.00	2.00	
91-20-3	Naphthalene	52.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	93.1	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	49.0	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	48.2	0.250	0.500	1.00	
100-42-5	Styrene	49.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.7	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	48.2	0.250	0.500	1.00	
108-88-3	Toluene	49.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.2	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	47.6	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.6	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	49.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.9	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	140	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.57	105	75 - 120	
Dibromofluoromethane	30.00	30.94	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.66	106	70 - 120	
Toluene-d8	30.00	30.47	102	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-MS2 File ID: 0113703M.D

Sampled: Prepared: Analyzed: 01/25/12 18:26

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	97.4	2.50	5.00	10.0	X
71-43-2	Benzene	54.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	50.9	0.250	0.500	1.00	
75-25-2	Bromoform	56.9	0.250	0.500	1.00	
74-83-9	Bromomethane	49.7	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	53.2	0.250	0.500	1.00	
78-93-3	2-Butanone	92.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	47.2	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	56.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.2	0.250	0.500	1.00	
75-00-3	Chloroethane	62.0	0.500	1.00	2.00	
67-66-3	Chloroform	50.1	0.250	0.500	1.00	
74-87-3	Chloromethane	45.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	50.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	52.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.7	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	54.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	52.2	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.0	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	46.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	45.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	48.8	0.250	0.500	1.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-MS2 File ID: 0113703M.D

Sampled: Prepared: Analyzed: 01/25/12 18:26

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	97.1	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	49.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.1	0.500	1.00	2.00	
91-20-3	Naphthalene	54.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	98.8	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	49.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.7	0.250	0.500	1.00	
100-42-5	Styrene	52.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	52.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.1	0.250	0.500	1.00	
108-88-3	Toluene	54.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.9	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	55.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	54.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.7	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.9	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	62.4	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	157	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.99	107	75 - 120	
Dibromofluoromethane	30.00	32.19	107	85 - 115	
1,2-Dichloroethane-d4	30.00	31.30	104	70 - 120	
Toluene-d8	30.00	33.04	110	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-MSD2 File ID: 0113703S.D

Sampled: Prepared: Analyzed: 01/25/12 18:54

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	90.5	2.50	5.00	10.0	X
71-43-2	Benzene	51.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	49.3	0.250	0.500	1.00	
75-25-2	Bromoform	55.5	0.250	0.500	1.00	
74-83-9	Bromomethane	47.0	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.7	0.250	0.500	1.00	
78-93-3	2-Butanone	84.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	44.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.7	0.250	0.500	1.00	
75-00-3	Chloroethane	58.2	0.500	1.00	2.00	
67-66-3	Chloroform	46.2	0.250	0.500	1.00	
74-87-3	Chloromethane	43.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.7	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	51.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.9	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	47.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.7	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	51.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	44.5	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	47.8	0.250	0.500	1.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A25013-MSD2 File ID: 0113703S.D

Sampled: Prepared: Analyzed: 01/25/12 18:54

Solids: Preparation: 5030B Dilution:

Batch: 2A25013 Sequence: 2A02606 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	93.4	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	49.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.4	0.500	1.00	2.00	
91-20-3	Naphthalene	51.8	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	95.8	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	47.9	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.4	0.250	0.500	1.00	
100-42-5	Styrene	52.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.8	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.3	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	52.4	0.250	0.500	1.00	
108-88-3	Toluene	52.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.8	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	54.2	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	53.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.0	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	153	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.74	106	75 - 120	
Dibromofluoromethane	30.00	31.13	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	32.04	107	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26010-BLK1 File ID: 0126BLK1.D

Sampled: Prepared: Analyzed: 01/26/12 10:19

Solids: Preparation: 5030B Dilution:

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, 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	Y, 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	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2A26010-BLK1
File ID: 0126BLK1.D
Sampled:
Prepared:
Analyzed: 01/26/12 10:19
Solids:
Preparation: 5030B
Dilution:
Batch: 2A26010
Sequence: 2A02704
Calibration: 2011004
Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.91	99.7	75 - 120	
Dibromofluoromethane	30.00	31.43	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.67	102	70 - 120	
Toluene-d8	30.00	30.99	103	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26010-BS1 File ID: 0126LCS1.D

Sampled: Prepared: Analyzed: 01/26/12 08:54

Solids: Preparation: 5030B Dilution:

Batch: 2A26010 Sequence: 2A02704 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	113	2.50	5.00	10.0	X
71-43-2	Benzene	50.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	46.8	0.250	0.500	1.00	
75-25-2	Bromoform	53.4	0.250	0.500	1.00	
74-83-9	Bromomethane	34.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	91.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	47.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	42.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.1	0.250	0.500	1.00	
75-00-3	Chloroethane	55.4	0.500	1.00	2.00	
67-66-3	Chloroform	45.3	0.250	0.500	1.00	
74-87-3	Chloromethane	33.2	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	47.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	47.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	50.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	48.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	49.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	47.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	45.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	45.3	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	49.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.7	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	47.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	50.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	43.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.5	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.4	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2A26010-BS1
File ID: 0126LCS1.D
Sampled:
Prepared:
Analyzed: 01/26/12 08:54
Solids:
Preparation: 5030B
Dilution:
Batch: 2A26010
Sequence: 2A02704
Calibration: 2011004
Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	91.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	46.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	48.0	0.500	1.00	2.00	
91-20-3	Naphthalene	53.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	90.1	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	46.7	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	47.7	0.250	0.500	1.00	
100-42-5	Styrene	49.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	47.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.9	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	49.8	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	48.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	48.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.9	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	148	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.79	109	75 - 120	
Dibromofluoromethane	30.00	30.70	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.31	101	70 - 120	
Toluene-d8	30.00	31.90	106	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A27019-BLK1 File ID: 0127BLK1.D

Sampled: Prepared: Analyzed: 01/27/12 11:24

Solids: Preparation: 5030B Dilution:

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A27019-BLK1 File ID: 0127BLK1.D

Sampled: Prepared: Analyzed: 01/27/12 11:24

Solids: Preparation: 5030B Dilution:

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.65	102	75 - 120	
Dibromofluoromethane	30.00	31.31	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	31.38	105	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A27019-BS1 File ID: 0127LCS1.D

Sampled: Prepared: Analyzed: 01/27/12 09:59

Solids: Preparation: 5030B Dilution:

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	95.4	2.50	5.00	10.0	X
71-43-2	Benzene	51.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	48.5	0.250	0.500	1.00	
75-25-2	Bromoform	56.1	0.250	0.500	1.00	
74-83-9	Bromomethane	43.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.7	0.250	0.500	1.00	
78-93-3	2-Butanone	85.8	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.7	0.250	0.500	1.00	
75-00-3	Chloroethane	56.6	0.500	1.00	2.00	
67-66-3	Chloroform	47.5	0.250	0.500	1.00	
74-87-3	Chloromethane	38.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	52.2	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	45.7	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	51.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	47.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	49.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	45.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.2	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A27019-BS1 File ID: 0127LCS1.D

Sampled: Prepared: Analyzed: 01/27/12 09:59

Solids: Preparation: 5030B Dilution:

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	89.6	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	48.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.3	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.7	0.500	1.00	2.00	
91-20-3	Naphthalene	54.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	89.3	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	48.0	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.1	0.250	0.500	1.00	
100-42-5	Styrene	53.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.0	0.250	0.500	1.00	
108-88-3	Toluene	51.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	54.5	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	53.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	52.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.3	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	33.30	111	75 - 120	
Dibromofluoromethane	30.00	30.83	103	85 - 115	
1,2-Dichloroethane-d4	30.00	32.34	108	70 - 120	
Toluene-d8	30.00	32.26	108	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A27019-BSD1 File ID: 0127LCD1.D

Sampled: Prepared: Analyzed: 01/27/12 19:52

Solids: Preparation: 5030B Dilution:

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	96.0	2.50	5.00	10.0	X
71-43-2	Benzene	53.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	50.2	0.250	0.500	1.00	
75-25-2	Bromoform	58.1	0.250	0.500	1.00	
74-83-9	Bromomethane	36.0	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.5	0.250	0.500	1.00	
78-93-3	2-Butanone	89.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	48.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	42.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.8	0.250	0.500	1.00	
75-00-3	Chloroethane	53.3	0.500	1.00	2.00	
67-66-3	Chloroform	48.2	0.250	0.500	1.00	
74-87-3	Chloromethane	33.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	55.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	52.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	46.1	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.9	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	43.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	44.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	48.3	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A27019-BSD1 File ID: 0127LCD1.D

Sampled: Prepared: Analyzed: 01/27/12 19:52

Solids: Preparation: 5030B Dilution:

Batch: 2A27019 Sequence: 2A03011 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	94.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.5	0.500	1.00	2.00	
91-20-3	Naphthalene	56.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	98.2	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	50.4	0.250	0.500	1.00	
100-42-5	Styrene	50.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	52.3	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.0	0.250	0.500	1.00	
108-88-3	Toluene	50.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.1	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	55.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.6	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	148	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.30	108	75 - 120	
Dibromofluoromethane	30.00	31.19	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.76	106	70 - 120	
Toluene-d8	30.00	31.55	105	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A30013-BLK1 File ID: 0130BLK1.D

Sampled: Prepared: Analyzed: 01/30/12 10:37

Solids: Preparation: 5030B Dilution:

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A30013-BLK1 File ID: 0130BLK1.D

Sampled: Prepared: Analyzed: 01/30/12 10:37

Solids: Preparation: 5030B Dilution:

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.14	104	75 - 120	
Dibromofluoromethane	30.00	32.40	108	85 - 115	
1,2-Dichloroethane-d4	30.00	32.41	108	70 - 120	
Toluene-d8	30.00	30.26	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A30013-BS1 File ID: 0130LCS1.D

Sampled: Prepared: Analyzed: 01/30/12 09:12

Solids: Preparation: 5030B Dilution:

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	91.8	2.50	5.00	10.0	
71-43-2	Benzene	51.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	46.7	0.250	0.500	1.00	
75-25-2	Bromoform	55.0	0.250	0.500	1.00	
74-83-9	Bromomethane	36.5	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.4	0.250	0.500	1.00	
78-93-3	2-Butanone	85.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	48.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.7	0.250	0.500	1.00	
75-00-3	Chloroethane	54.7	0.500	1.00	2.00	
67-66-3	Chloroform	46.0	0.250	0.500	1.00	
74-87-3	Chloromethane	36.0	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	47.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	50.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	46.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	47.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	45.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.6	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.0	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.3	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	48.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	46.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	42.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.3	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A30013-BS1 File ID: 0130LCS1.D

Sampled: Prepared: Analyzed: 01/30/12 09:12

Solids: Preparation: 5030B Dilution:

Batch: 2A30013 Sequence: 2A03101 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	85.2	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	47.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	89.4	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	46.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.4	0.250	0.500	1.00	
100-42-5	Styrene	51.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.3	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.1	0.250	0.500	1.00	
108-88-3	Toluene	49.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.9	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	50.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.0	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	148	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.14	107	75 - 120	
Dibromofluoromethane	30.00	31.62	105	85 - 115	
1,2-Dichloroethane-d4	30.00	32.09	107	70 - 120	
Toluene-d8	30.00	31.58	105	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A31015-BLK1 File ID: 0131BLK1.D

Sampled: Prepared: Analyzed: 01/31/12 15:24

Solids: Preparation: 5030B Dilution:

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A31015-BLK1 File ID: 0131BLK1.D

Sampled: Prepared: Analyzed: 01/31/12 15:24

Solids: Preparation: 5030B Dilution:

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.50	102	75 - 120	
Dibromofluoromethane	30.00	31.12	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.21	104	70 - 120	
Toluene-d8	30.00	30.25	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A31015-BS1 File ID: 0131LCS1.D

Sampled: Prepared: Analyzed: 01/31/12 11:53

Solids: Preparation: 5030B Dilution:

Batch: 2A31015 Sequence: 2B03201 Calibration: 2011004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	163	2.50	5.00	10.0	X
71-43-2	Benzene	52.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	50.0	0.250	0.500	1.00	
75-25-2	Bromoform	56.4	0.250	0.500	1.00	
74-83-9	Bromomethane	47.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.5	0.250	0.500	1.00	
78-93-3	2-Butanone	106	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	44.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.2	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.6	0.250	0.500	1.00	
75-00-3	Chloroethane	57.9	0.500	1.00	2.00	
67-66-3	Chloroform	48.2	0.250	0.500	1.00	
74-87-3	Chloromethane	39.1	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	50.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.7	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	
75-35-4	1,1-Dichloroethene	49.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	44.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	45.3	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2A31015-BS1
File ID: 0131LCS1.D
Sampled:
Prepared:
Analyzed: 01/31/12 11:53
Solids:
Preparation: 5030B
Dilution:
Batch: 2A31015
Sequence: 2B03201
Calibration: 2011004
Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	103	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	49.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	50.5	0.500	1.00	2.00	
91-20-3	Naphthalene	52.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	91.6	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	48.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.6	0.250	0.500	1.00	
100-42-5	Styrene	53.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.5	0.250	0.500	1.00	
108-88-3	Toluene	52.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	47.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	53.2	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.1	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	62.4	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	155	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	30.99	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.61	102	70 - 120	
Toluene-d8	30.00	31.84	106	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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
GW0375	01/23/12 09:12	01/24/12 08:45	01/25/12 00:00	N/A	14.00	01/25/12 10:26	2.01	14.00	
GW0376	01/23/12 12:46	01/24/12 08:45	01/25/12 00:00	N/A	14.00	01/25/12 10:54	1.88	14.00	
GW0377	01/23/12 11:16	01/24/12 08:45	01/25/12 00:00	N/A	14.00	01/25/12 11:23	1.96	14.00	
GW0397	01/23/12 13:48	01/24/12 08:45	01/25/12 00:00	N/A	14.00	01/25/12 16:33	2.07	14.00	
GW0398	01/23/12 10:55	01/24/12 08:45	01/25/12 00:00	N/A	14.00	01/25/12 11:51	2.00	14.00	
GW8161-TB	01/23/12 08:00	01/24/12 08:45	01/25/12 00:00	N/A	14.00	01/25/12 09:58	2.04	14.00	
GW0378	01/23/12 14:10	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 12:40	2.90	14.00	
GW0379	01/24/12 09:10	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 13:08	2.12	14.00	
GW0380	01/24/12 09:10	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 13:36	2.14	14.00	
GW0396	01/23/12 16:45	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 14:05	2.85	14.00	
GW0428	01/24/12 14:00	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 14:33	1.98	14.00	
GW0430	01/24/12 11:21	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 15:01	2.11	14.00	
GW8162-TB	01/24/12 08:00	01/25/12 07:00	01/26/12 00:00	N/A	14.00	01/26/12 11:43	2.11	14.00	
GW0404	01/25/12 14:41	01/26/12 08:30	01/27/12 00:00	N/A	14.00	01/27/12 16:06	2.02	14.00	
GW0410	01/24/12 14:59	01/26/12 08:30	01/27/12 00:00	N/A	14.00	01/27/12 16:34	3.02	14.00	
GW0429	01/25/12 10:21	01/26/12 08:30	01/27/12 00:00	N/A	14.00	01/27/12 17:02	2.24	14.00	
GW8163-TB	01/25/12 08:00	01/26/12 08:30	01/27/12 00:00	N/A	14.00	01/27/12 13:16	2.18	14.00	
GW0466	01/26/12 13:52	01/27/12 08:20	01/31/12 00:00	N/A	14.00	01/31/12 19:38	5.20	14.00	
GW0467	01/26/12 13:52	01/27/12 08:20	01/30/12 00:00	N/A	14.00	01/30/12 14:23	3.98	14.00	
GW0468	01/26/12 11:32	01/27/12 08:20	01/30/12 00:00	N/A	14.00	01/30/12 12:30	4.00	14.00	
GW0472	01/26/12 09:37	01/27/12 08:20	01/30/12 00:00	N/A	14.00	01/30/12 12:58	4.10	14.00	
GW0475	01/26/12 14:03	01/27/12 08:20	01/31/12 00:00	N/A	14.00	01/31/12 17:45	5.11	14.00	
GW0493	01/25/12 15:47	01/27/12 08:20	01/31/12 00:00	N/A	14.00	01/31/12 18:13	6.06	14.00	
GW8164-TB	01/26/12 08:00	01/27/12 08:20	01/30/12 00:00	N/A	14.00	01/30/12 11:33	4.11	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	0113701.D
Sampled:	01/23/12 09:12	Prepared:	01/26/12 12:00	Analyzed:	01/27/12 22:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A02801 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.39	2.78	5.56	U
208-96-8	Acenaphthylene		1.39	2.78	5.56	U
98-86-2	Acetophenone		1.39	2.78	5.56	U
120-12-7	Anthracene		1.39	2.78	5.56	U
1912-24-9	Atrazine		1.39	2.78	5.56	Q, Y, U
100-52-7	Benzaldehyde		1.39	2.78	5.56	Y, U
92-87-5	Benzidine		13.9	27.8	55.6	U
56-55-3	Benzo(a)anthracene		1.39	2.78	5.56	U
50-32-8	Benzo(a)pyrene		1.39	2.78	5.56	U
205-99-2	Benzo(b)fluoranthene		1.39	2.78	5.56	X, U
191-24-2	Benzo(g,h,i)perylene		1.39	2.78	5.56	U
65-85-0	Benzoic acid		13.9	27.8	55.6	U
207-08-9	Benzo(k)fluoranthene		1.39	2.78	5.56	X, U
92-52-4	1,1-Biphenyl		1.39	2.78	5.56	U
101-55-3	4-Bromophenyl-phenylether		1.39	2.78	5.56	U
85-68-7	Butylbenzylphthalate		1.39	2.78	5.56	Q, U
105-60-2	Caprolactam		1.39	2.78	5.56	Q, U
86-74-8	Carbazole		1.39	2.78	5.56	U
59-50-7	4-Chloro-3-methylphenol		1.39	2.78	5.56	U
106-47-8	4-Chloroaniline		1.39	2.78	5.56	U
111-91-1	Bis(2-chloroethoxy)methane		1.39	2.78	5.56	U
111-44-4	Bis(2-chloroethyl)ether		1.39	2.78	5.56	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.39	2.78	5.56	U
91-58-7	2-Chloronaphthalene		1.39	2.78	5.56	U
95-57-8	2-Chlorophenol		1.39	2.78	5.56	U
7005-72-3	4-Chlorophenyl phenyl ether		1.39	2.78	5.56	U
218-01-9	Chrysene		1.39	2.78	5.56	U
53-70-3	Dibenz(a,h)anthracene		1.39	2.78	5.56	U
132-64-9	Dibenzofuran		1.39	2.78	5.56	U
84-74-2	Di-n-butylphthalate		1.39	2.78	5.56	U
91-94-1	3,3'-Dichlorobenzidine		1.39	2.78	5.56	Q, X, U
120-83-2	2,4-Dichlorophenol		1.39	2.78	5.56	U
84-66-2	Diethylphthalate		1.39	2.78	5.56	U
105-67-9	2,4-Dimethylphenol		5.56	11.1	22.2	U
131-11-3	Dimethyl phthalate		1.39	2.78	5.56	U
534-52-1	4,6-Dinitro-2-methylphenol		5.56	11.1	22.2	U
51-28-5	2,4-Dinitrophenol		1.11	27.8	55.6	U
121-14-2	2,4-Dinitrotoluene		1.39	2.78	5.56	U
606-20-2	2,6-Dinitrotoluene		1.39	2.78	5.56	U
117-84-0	Di-n-octylphthalate		1.39	2.78	5.56	Q, X, U

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	0113701.D
Sampled:	01/23/12 09:12	Prepared:	01/26/12 12:00	Analyzed:	01/27/12 22:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A02801 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.39	2.78	5.56	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.39	2.78	5.56	U
206-44-0	Fluoranthene		1.39	2.78	5.56	U
86-73-7	Fluorene		1.39	2.78	5.56	U
118-74-1	Hexachlorobenzene		1.39	2.78	5.56	U
87-68-3	Hexachlorobutadiene		1.39	2.78	5.56	U
77-47-4	Hexachlorocyclopentadiene		1.39	2.78	5.56	X, U
67-72-1	Hexachloroethane		1.39	2.78	5.56	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.39	2.78	5.56	U
78-59-1	Isophorone		1.39	2.78	5.56	U
90-12-0	1-Methylnaphthalene		1.39	2.78	5.56	U
91-57-6	2-Methylnaphthalene		1.39	2.78	5.56	U
95-48-7	2-Methylphenol		1.39	2.78	5.56	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.39	2.78	5.56	U
91-20-3	Naphthalene		1.39	2.78	5.56	U
100-01-6	4-Nitroaniline		5.56	11.1	22.2	U
99-09-2	3-Nitroaniline		5.56	11.1	22.2	U
88-74-4	2-Nitroaniline		5.56	11.1	22.2	U
98-95-3	Nitrobenzene		1.39	2.78	5.56	U
100-02-7	4-Nitrophenol		5.56	11.1	22.2	U
88-75-5	2-Nitrophenol		1.39	2.78	5.56	U
86-30-6	N-Nitrosodiphenylamine		1.39	2.78	5.56	U
621-64-7	N-Nitroso-di-n-propylamine		1.39	2.78	5.56	U
87-86-5	Pentachlorophenol		5.56	11.1	22.2	U
85-01-8	Phenanthrene		1.39	2.78	5.56	U
108-95-2	Phenol		1.39	2.78	5.56	U
129-00-0	Pyrene		1.39	2.78	5.56	U
88-06-2	2,4,6-Trichlorophenol		1.39	2.78	5.56	U
95-95-4	2,4,5-Trichlorophenol		1.39	2.78	5.56	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	55.56	47.63	85.7	50 - 110	
2-Fluorophenol	111.1	37.53	33.8	20 - 110	
Nitrobenzene-d5	55.56	46.01	82.8	40 - 110	
Phenol-d6	111.1	21.75	19.6	0 - 110	
Terphenyl-d14	55.56	48.72	87.7	50 - 135	
2,4,6-Tribromophenol	111.1	92.50	83.3	40 - 125	

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	0113703.D
Sampled:	01/23/12 12:46	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 11:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	N, Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	X, U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	X, 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	X, N, Q, U
105-60-2	Caprolactam		1.23	2.45	4.90	N, Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	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	N, Q, U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	N, U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	N, 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	N, Q, X, U

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	0113703.D
Sampled:	01/23/12 12:46	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 11:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	X, 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	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	N, 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	41.97	85.6	50 - 110	
2-Fluorophenol	98.04	19.05	19.4	20 - 110	*
Nitrobenzene-d5	49.02	40.59	82.8	40 - 110	
Phenol-d6	98.04	15.14	15.4	0 - 110	
Terphenyl-d14	49.02	46.78	95.4	50 - 135	X
2,4,6-Tribromophenol	98.04	47.03	48.0	40 - 125	

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	0113705.D
Sampled:	01/23/12 11:16	Prepared:	01/26/12 12:00	Analyzed:	01/27/12 23:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A02801 Calibration: 2018001 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	Q, Y, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	X, 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	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	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	Q, X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	0113705.D
Sampled:	01/23/12 11:16	Prepared:	01/26/12 12:00	Analyzed:	01/27/12 23:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A02801 Calibration: 2018001 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	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.55	79.1	50 - 110	
2-Fluorophenol	100.0	30.57	30.6	20 - 110	
Nitrobenzene-d5	50.00	38.01	76.0	40 - 110	
Phenol-d6	100.0	17.22	17.2	0 - 110	
Terphenyl-d14	50.00	45.78	91.6	50 - 135	
2,4,6-Tribromophenol	100.0	74.99	75.0	40 - 125	

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	0113707.D
Sampled:	01/23/12 13:48	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 13:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	X, U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	X, 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	Q, X, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	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	Q, U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	Q, X, U

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	0113707.D
Sampled:	01/23/12 13:48	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 13:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	X, 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	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	41.26	84.2	50 - 110	
2-Fluorophenol	98.04	21.45	21.9	20 - 110	
Nitrobenzene-d5	49.02	38.12	77.8	40 - 110	
Phenol-d6	98.04	15.46	15.8	0 - 110	
Terphenyl-d14	49.02	46.12	94.1	50 - 135	X
2,4,6-Tribromophenol	98.04	60.42	61.6	40 - 125	

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	0113709.D
Sampled:	01/23/12 10:55	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 13:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	X, U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	Q, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, X, U

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	0113709.D
Sampled:	01/23/12 10:55	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 13:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	39.28	81.7	50 - 110	
2-Fluorophenol	96.15	27.51	28.6	20 - 110	
Nitrobenzene-d5	48.08	39.18	81.5	40 - 110	
Phenol-d6	96.15	16.50	17.2	0 - 110	
Terphenyl-d14	48.08	44.52	92.6	50 - 135	X
2,4,6-Tribromophenol	96.15	71.24	74.1	40 - 125	

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	0113901.D
Sampled:	01/23/12 14:10	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 14:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	X, 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	X, Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	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	Q, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	0113901.D
Sampled:	01/23/12 14:10	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 14:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	X, 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	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	28.82	57.6	50 - 110	
2-Fluorophenol	100.0	11.38	11.4	20 - 110	*
Nitrobenzene-d5	50.00	27.34	54.7	40 - 110	
Phenol-d6	100.0	9.147	9.15	0 - 110	
Terphenyl-d14	50.00	27.95	55.9	50 - 135	X
2,4,6-Tribromophenol	100.0	28.67	28.7	40 - 125	*

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	0113903.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 14:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	X, U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	Q, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, X, U

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	0113903.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 14:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	44.58	92.7	50 - 110	
2-Fluorophenol	96.15	23.51	24.5	20 - 110	
Nitrobenzene-d5	48.08	43.94	91.4	40 - 110	
Phenol-d6	96.15	17.66	18.4	0 - 110	
Terphenyl-d14	48.08	44.53	92.6	50 - 135	X
2,4,6-Tribromophenol	96.15	58.15	60.5	40 - 125	

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	0113905.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 15:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	X, 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	Q, X, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	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	Q, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	0113905.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 15:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	X, 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	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	50.03	100	50 - 110	
2-Fluorophenol	100.0	33.52	33.5	20 - 110	
Nitrobenzene-d5	50.00	47.85	95.7	40 - 110	
Phenol-d6	100.0	22.07	22.1	0 - 110	
Terphenyl-d14	50.00	46.23	92.5	50 - 135	X
2,4,6-Tribromophenol	100.0	83.84	83.8	40 - 125	

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	0113907.D
Sampled:	01/23/12 16:45	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 15:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	X, U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	Q, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, X, U

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	0113907.D
Sampled:	01/23/12 16:45	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 15:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	42.88	89.2	50 - 110	
2-Fluorophenol	96.15	15.07	15.7	20 - 110	*
Nitrobenzene-d5	48.08	41.49	86.3	40 - 110	
Phenol-d6	96.15	12.12	12.6	0 - 110	
Terphenyl-d14	48.08	44.17	91.9	50 - 135	X
2,4,6-Tribromophenol	96.15	39.76	41.4	40 - 125	

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09	File ID:	0113909.D
Sampled:	01/24/12 14:00	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 16:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	X, U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	X, 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	X, Q, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	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	Q, U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	Q, X, U

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09	File ID:	0113909.D
Sampled:	01/24/12 14:00	Prepared:	01/26/12 12:00	Analyzed:	01/28/12 16:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 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	X, 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	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	43.96	89.7	50 - 110	
2-Fluorophenol	98.04	8.152	8.31	20 - 110	*
Nitrobenzene-d5	49.02	42.45	86.6	40 - 110	
Phenol-d6	98.04	9.259	9.44	0 - 110	
Terphenyl-d14	49.02	43.54	88.8	50 - 135	X
2,4,6-Tribromophenol	98.04	20.34	20.8	40 - 125	*

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11RE1	File ID:	0113911R.D
Sampled:	01/24/12 11:21	Prepared:	01/26/12 12:00	Analyzed:	01/31/12 16:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	X, U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	Q, X, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, X, U

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11RE1	File ID:	0113911R.D
Sampled:	01/24/12 11:21	Prepared:	01/26/12 12:00	Analyzed:	01/31/12 16:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	42.65	88.7	50 - 110	
2-Fluorophenol	96.15	18.36	19.1	20 - 110	*
Nitrobenzene-d5	48.08	41.62	86.6	40 - 110	
Phenol-d6	96.15	14.48	15.1	0 - 110	
Terphenyl-d14	48.08	41.42	86.2	50 - 135	
2,4,6-Tribromophenol	96.15	50.78	52.8	40 - 125	

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01	File ID:	0115101.D
Sampled:	01/25/12 14:41	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 17:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.17	2.34	4.67	U
208-96-8	Acenaphthylene		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	U
120-12-7	Anthracene		1.17	2.34	4.67	U
1912-24-9	Atrazine		1.17	2.34	4.67	U
100-52-7	Benzaldehyde		1.17	2.34	4.67	Y, U
92-87-5	Benzidine		11.7	23.4	46.7	U
56-55-3	Benzo(a)anthracene		1.17	2.34	4.67	U
50-32-8	Benzo(a)pyrene		1.17	2.34	4.67	U
205-99-2	Benzo(b)fluoranthene		1.17	2.34	4.67	X, U
191-24-2	Benzo(g,h,i)perylene		1.17	2.34	4.67	U
65-85-0	Benzoic acid		11.7	23.4	46.7	U
207-08-9	Benzo(k)fluoranthene		1.17	2.34	4.67	U
92-52-4	1,1-Biphenyl		1.17	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.17	2.34	4.67	U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
218-01-9	Chrysene		1.17	2.34	4.67	U
53-70-3	Dibenz(a,h)anthracene		1.17	2.34	4.67	X, U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	Q, X, U
120-83-2	2,4-Dichlorophenol		1.17	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	Q, U
51-28-5	2,4-Dinitrophenol		0.935	23.4	46.7	Q, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	X, U

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01	File ID:	0115101.D
Sampled:	01/25/12 14:41	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 17:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	39.83	85.2	50 - 110	
2-Fluorophenol	93.46	28.67	30.7	20 - 110	
Nitrobenzene-d5	46.73	38.44	82.3	40 - 110	
Phenol-d6	93.46	17.07	18.3	0 - 110	
Terphenyl-d14	46.73	32.89	70.4	50 - 135	
2,4,6-Tribromophenol	93.46	71.18	76.2	40 - 125	

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03	File ID:	0115103.D
Sampled:	01/24/12 14:59	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 17:44
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	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	X, 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	Q, X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	Q, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	Q, 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	X, U

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03	File ID:	0115103.D
Sampled:	01/24/12 14:59	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 17:44
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	X, 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	2.50	5.00	X, 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	X, 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	Q, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.36	72.7	50 - 110	
2-Fluorophenol	100.0	18.58	18.6	20 - 110	*
Nitrobenzene-d5	50.00	34.61	69.2	40 - 110	
Phenol-d6	100.0	13.95	14.0	0 - 110	
Terphenyl-d14	50.00	39.46	78.9	50 - 135	
2,4,6-Tribromophenol	100.0	43.27	43.3	40 - 125	

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05	File ID:	0115105.D
Sampled:	01/25/12 10:21	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 18:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	X, U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	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	X, 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	Q, X, U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	Q, U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	Q, 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	X, U

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05	File ID:	0115105.D
Sampled:	01/25/12 10:21	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 18:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	X, 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	2.45	4.90	X, 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	X, U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	Q, U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	Q, X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	39.37	80.3	50 - 110	
2-Fluorophenol	98.04	27.57	28.1	20 - 110	
Nitrobenzene-d5	49.02	38.18	77.9	40 - 110	
Phenol-d6	98.04	16.46	16.8	0 - 110	
Terphenyl-d14	49.02	33.09	67.5	50 - 135	
2,4,6-Tribromophenol	98.04	67.08	68.4	40 - 125	

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01	File ID:	0119301.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 12:15	Analyzed:	02/01/12 00:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone	2.37	1.20	2.40	4.81	J
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	X, U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	X, Q, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	Q, U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	Q, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	X, U

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01	File ID:	0119301.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 12:15	Analyzed:	02/01/12 00:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	X, U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	X, U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	X, U
78-59-1	Isophorone	1.42	1.20	2.40	4.81	J
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol	3.29	1.20	2.40	4.81	J
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	Q, U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	Q, U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	Q, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	Q, X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	34.03	70.8	50 - 110	
2-Fluorophenol	96.15	20.01	20.8	20 - 110	
Nitrobenzene-d5	48.08	31.99	66.5	40 - 110	
Phenol-d6	96.15	14.95	15.6	0 - 110	
Terphenyl-d14	48.08	38.86	80.8	50 - 135	
2,4,6-Tribromophenol	96.15	50.87	52.9	40 - 125	

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	0119303.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 12:15	Analyzed:	02/01/12 01:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone	2.78	1.20	2.40	4.81	J
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	X, U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	Q, X, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	Q, U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	Q, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	X, U

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	0119303.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 12:15	Analyzed:	02/01/12 01:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	X, U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	X, U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	X, U
78-59-1	Isophorone	1.65	1.20	2.40	4.81	J
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene	1.57	1.20	2.40	4.81	J
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol	4.07	1.20	2.40	4.81	J
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	Q, U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	Q, U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	Q, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	Q, X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	37.96	79.0	50 - 110	
2-Fluorophenol	96.15	31.77	33.0	20 - 110	
Nitrobenzene-d5	48.08	35.51	73.9	40 - 110	
Phenol-d6	96.15	19.44	20.2	0 - 110	
Terphenyl-d14	48.08	43.86	91.2	50 - 135	
2,4,6-Tribromophenol	96.15	84.05	87.4	40 - 125	

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	0119305.D
Sampled:	01/26/12 11:32	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 19:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	Y, U
92-87-5	Benzidine		11.8	23.6	47.2	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	X, U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	Q, X, U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, U
51-28-5	2,4-Dinitrophenol		0.943	23.6	47.2	Q, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	X, U

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	0119305.D
Sampled:	01/26/12 11:32	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 19:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	36.23	76.8	50 - 110	
2-Fluorophenol	94.34	24.18	25.6	20 - 110	
Nitrobenzene-d5	47.17	35.64	75.6	40 - 110	
Phenol-d6	94.34	15.11	16.0	0 - 110	
Terphenyl-d14	47.17	39.54	83.8	50 - 135	
2,4,6-Tribromophenol	94.34	52.18	55.3	40 - 125	

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	0119307.D
Sampled:	01/26/12 09:37	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 20:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	Y, U
92-87-5	Benzidine		11.8	23.6	47.2	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	X, U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	Q, X, U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, U
51-28-5	2,4-Dinitrophenol		0.943	23.6	47.2	Q, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	X, U

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	0119307.D
Sampled:	01/26/12 09:37	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 20:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	34.03	72.1	50 - 110	
2-Fluorophenol	94.34	25.95	27.5	20 - 110	
Nitrobenzene-d5	47.17	33.15	70.3	40 - 110	
Phenol-d6	94.34	14.69	15.6	0 - 110	
Terphenyl-d14	47.17	37.96	80.5	50 - 135	
2,4,6-Tribromophenol	94.34	60.34	64.0	40 - 125	

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	0119309.D
Sampled:	01/26/12 14:03	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 20:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	X, U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	Q, X, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	Q, U
51-28-5	2,4-Dinitrophenol		0.962	24.0	48.1	Q, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	X, U

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	0119309.D
Sampled:	01/26/12 14:03	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 20:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	36.16	75.2	50 - 110	
2-Fluorophenol	96.15	31.24	32.5	20 - 110	
Nitrobenzene-d5	48.08	35.33	73.5	40 - 110	
Phenol-d6	96.15	17.39	18.1	0 - 110	
Terphenyl-d14	48.08	40.69	84.6	50 - 135	
2,4,6-Tribromophenol	96.15	73.80	76.8	40 - 125	

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	0119311.D
Sampled:	01/25/12 15:47	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 21:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	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	X, 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	Q, X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	Q, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	Q, 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	X, U

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	0119311.D
Sampled:	01/25/12 15:47	Prepared:	01/30/12 12:15	Analyzed:	01/31/12 21:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	X, 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	2.50	5.00	X, 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	X, 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	Q, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.13	76.3	50 - 110	
2-Fluorophenol	100.0	34.06	34.1	20 - 110	
Nitrobenzene-d5	50.00	37.08	74.2	40 - 110	
Phenol-d6	100.0	18.90	18.9	0 - 110	
Terphenyl-d14	50.00	41.01	82.0	50 - 135	
2,4,6-Tribromophenol	100.0	76.14	76.1	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02801	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A02801-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 01/27/12 12:23		
2-Fluorobiphenyl	50.00	106	80 - 120	8.851	8.851	0.0000	+/-0.500	
2-Fluorophenol	100.0	106	80 - 120	4.267	4.267	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	108	80 - 120	6.57	6.57	0.0000	+/-0.500	
Phenol-d6	100.0	108	80 - 120	5.448	5.448	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	80 - 120	13.595	13.595	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	112	80 - 120	10.662	10.662	0.0000	+/-0.500	
Blank (2A26004-BLK1) ug/L				Lab File ID: A26004B1.D		Analyzed: 01/27/12 20:30		
2-Fluorobiphenyl	50.00	93.4	50 - 110	8.84	8.851	-0.0110	+/-0.500	
2-Fluorophenol	100.0	33.9	20 - 110	4.262	4.267	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	88.4	40 - 110	6.559	6.57	-0.0110	+/-0.500	
Phenol-d6	100.0	19.7	0 - 110	5.431	5.448	-0.0170	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	13.594	13.595	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	93.8	40 - 125	10.656	10.662	-0.0060	+/-0.500	
LCS (2A26004-BS1) ug/L				Lab File ID: A26004L1.D		Analyzed: 01/27/12 21:00		
2-Fluorobiphenyl	50.00	90.5	50 - 110	8.849	8.851	-0.0020	+/-0.500	
2-Fluorophenol	100.0	36.0	20 - 110	4.265	4.267	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	89.1	40 - 110	6.568	6.57	-0.0020	+/-0.500	
Phenol-d6	100.0	20.4	0 - 110	5.44	5.448	-0.0080	+/-0.500	
Terphenyl-d14	50.00	99.6	50 - 135	13.598	13.595	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	97.5	40 - 125	10.665	10.662	0.0030	+/-0.500	
GW0375 (1201137-01) ug/L				Lab File ID: 0113701.D		Analyzed: 01/27/12 22:31		
2-Fluorobiphenyl	55.56	85.7	50 - 110	8.843	8.851	-0.0080	+/-0.500	
2-Fluorophenol	111.1	33.8	20 - 110	4.265	4.267	-0.0020	+/-0.500	
Nitrobenzene-d5	55.56	82.8	40 - 110	6.562	6.57	-0.0080	+/-0.500	
Phenol-d6	111.1	19.6	0 - 110	5.429	5.448	-0.0190	+/-0.500	
Terphenyl-d14	55.56	87.7	50 - 135	13.597	13.595	0.0020	+/-0.500	
2,4,6-Tribromophenol	111.1	83.3	40 - 125	10.659	10.662	-0.0030	+/-0.500	
GW0377 (1201137-05) ug/L				Lab File ID: 0113705.D		Analyzed: 01/27/12 23:02		
2-Fluorobiphenyl	50.00	79.1	50 - 110	8.838	8.851	-0.0130	+/-0.500	
2-Fluorophenol	100.0	30.6	20 - 110	4.265	4.267	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	76.0	40 - 110	6.556	6.57	-0.0140	+/-0.500	
Phenol-d6	100.0	17.2	0 - 110	5.429	5.448	-0.0190	+/-0.500	
Terphenyl-d14	50.00	91.6	50 - 135	13.592	13.595	-0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	75.0	40 - 125	10.654	10.662	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A03106-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 01/28/12 10:56		
2-Fluorobiphenyl	50.00	107	80 - 120	8.85	8.85	0.0000	+/-0.500	
2-Fluorophenol	100.0	106	80 - 120	4.272	4.272	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	106	80 - 120	6.569	6.569	0.0000	+/-0.500	
Phenol-d6	100.0	106	80 - 120	5.452	5.452	0.0000	+/-0.500	
Terphenyl-d14	50.00	121	80 - 120	13.594	13.594	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	114	80 - 120	10.666	10.666	0.0000	+/-0.500	
GW0376 (1201137-03) ug/L				Lab File ID: 0113703.D		Analyzed: 01/28/12 11:27		
2-Fluorobiphenyl	49.02	85.6	50 - 110	8.839	8.85	-0.0110	+/-0.500	
2-Fluorophenol	98.04	19.4	20 - 110	4.261	4.272	-0.0110	+/-0.500	*
Nitrobenzene-d5	49.02	82.8	40 - 110	6.558	6.569	-0.0110	+/-0.500	
Phenol-d6	98.04	15.4	0 - 110	5.431	5.452	-0.0210	+/-0.500	
Terphenyl-d14	49.02	95.4	50 - 135	13.594	13.594	0.0000	+/-0.500	
2,4,6-Tribromophenol	98.04	48.0	40 - 125	10.65	10.666	-0.0160	+/-0.500	
Matrix Spike (2A26004-MS1) ug/L				Lab File ID: 0113703M.D		Analyzed: 01/28/12 11:58		
2-Fluorobiphenyl	47.17	82.0	50 - 110	8.848	8.85	-0.0020	+/-0.500	
2-Fluorophenol	94.34	26.6	20 - 110	4.27	4.272	-0.0020	+/-0.500	
Nitrobenzene-d5	47.17	77.7	40 - 110	6.567	6.569	-0.0020	+/-0.500	
Phenol-d6	94.34	16.8	0 - 110	5.44	5.452	-0.0120	+/-0.500	
Terphenyl-d14	47.17	106	50 - 135	13.592	13.594	-0.0020	+/-0.500	
2,4,6-Tribromophenol	94.34	86.1	40 - 125	10.665	10.666	-0.0010	+/-0.500	
Matrix Spike Dup (2A26004-MSD1) ug/L				Lab File ID: 0113703S.D		Analyzed: 01/28/12 12:29		
2-Fluorobiphenyl	50.00	88.9	50 - 110	8.844	8.85	-0.0060	+/-0.500	
2-Fluorophenol	100.0	25.1	20 - 110	4.266	4.272	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	88.5	40 - 110	6.569	6.569	0.0000	+/-0.500	
Phenol-d6	100.0	18.8	0 - 110	5.436	5.452	-0.0160	+/-0.500	
Terphenyl-d14	50.00	93.7	50 - 135	13.593	13.594	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	65.5	40 - 125	10.661	10.666	-0.0050	+/-0.500	
GW0397 (1201137-07) ug/L				Lab File ID: 0113707.D		Analyzed: 01/28/12 13:00		
2-Fluorobiphenyl	49.02	84.2	50 - 110	8.842	8.85	-0.0080	+/-0.500	
2-Fluorophenol	98.04	21.9	20 - 110	4.269	4.272	-0.0030	+/-0.500	
Nitrobenzene-d5	49.02	77.8	40 - 110	6.561	6.569	-0.0080	+/-0.500	
Phenol-d6	98.04	15.8	0 - 110	5.439	5.452	-0.0130	+/-0.500	
Terphenyl-d14	49.02	94.1	50 - 135	13.591	13.594	-0.0030	+/-0.500	
2,4,6-Tribromophenol	98.04	61.6	40 - 125	10.658	10.666	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0398 (1201137-09) ug/L				Lab File ID: 0113709.D		Analyzed: 01/28/12 13:31		
2-Fluorobiphenyl	48.08	81.7	50 - 110	8.839	8.85	-0.0110	+/-0.500	
2-Fluorophenol	96.15	28.6	20 - 110	4.266	4.272	-0.0060	+/-0.500	
Nitrobenzene-d5	48.08	81.5	40 - 110	6.558	6.569	-0.0110	+/-0.500	
Phenol-d6	96.15	17.2	0 - 110	5.431	5.452	-0.0210	+/-0.500	
Terphenyl-d14	48.08	92.6	50 - 135	13.594	13.594	0.0000	+/-0.500	
2,4,6-Tribromophenol	96.15	74.1	40 - 125	10.655	10.666	-0.0110	+/-0.500	
GW0378 (1201139-01) ug/L				Lab File ID: 0113901.D		Analyzed: 01/28/12 14:02		
2-Fluorobiphenyl	50.00	57.6	50 - 110	8.839	8.85	-0.0110	+/-0.500	
2-Fluorophenol	100.0	11.4	20 - 110	4.266	4.272	-0.0060	+/-0.500	*
Nitrobenzene-d5	50.00	54.7	40 - 110	6.558	6.569	-0.0110	+/-0.500	
Phenol-d6	100.0	9.15	0 - 110	5.431	5.452	-0.0210	+/-0.500	
Terphenyl-d14	50.00	55.9	50 - 135	13.588	13.594	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	28.7	40 - 125	10.65	10.666	-0.0160	+/-0.500	*
GW0379 (1201139-03) ug/L				Lab File ID: 0113903.D		Analyzed: 01/28/12 14:33		
2-Fluorobiphenyl	48.08	92.7	50 - 110	8.84	8.85	-0.0100	+/-0.500	
2-Fluorophenol	96.15	24.5	20 - 110	4.262	4.272	-0.0100	+/-0.500	
Nitrobenzene-d5	48.08	91.4	40 - 110	6.559	6.569	-0.0100	+/-0.500	
Phenol-d6	96.15	18.4	0 - 110	5.427	5.452	-0.0250	+/-0.500	
Terphenyl-d14	48.08	92.6	50 - 135	13.589	13.594	-0.0050	+/-0.500	
2,4,6-Tribromophenol	96.15	60.5	40 - 125	10.651	10.666	-0.0150	+/-0.500	
GW0380 (1201139-05) ug/L				Lab File ID: 0113905.D		Analyzed: 01/28/12 15:03		
2-Fluorobiphenyl	50.00	100	50 - 110	8.842	8.85	-0.0080	+/-0.500	
2-Fluorophenol	100.0	33.5	20 - 110	4.264	4.272	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	95.7	40 - 110	6.561	6.569	-0.0080	+/-0.500	
Phenol-d6	100.0	22.1	0 - 110	5.428	5.452	-0.0240	+/-0.500	
Terphenyl-d14	50.00	92.5	50 - 135	13.591	13.594	-0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	83.8	40 - 125	10.658	10.666	-0.0080	+/-0.500	
GW0396 (1201139-07) ug/L				Lab File ID: 0113907.D		Analyzed: 01/28/12 15:33		
2-Fluorobiphenyl	48.08	89.2	50 - 110	8.844	8.85	-0.0060	+/-0.500	
2-Fluorophenol	96.15	15.7	20 - 110	4.266	4.272	-0.0060	+/-0.500	*
Nitrobenzene-d5	48.08	86.3	40 - 110	6.563	6.569	-0.0060	+/-0.500	
Phenol-d6	96.15	12.6	0 - 110	5.431	5.452	-0.0210	+/-0.500	
Terphenyl-d14	48.08	91.9	50 - 135	13.594	13.594	0.0000	+/-0.500	
2,4,6-Tribromophenol	96.15	41.4	40 - 125	10.655	10.666	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0428 (1201139-09) ug/L				Lab File ID: 0113909.D		Analyzed: 01/28/12 16:04		
2-Fluorobiphenyl	49.02	89.7	50 - 110	8.842	8.85	-0.0080	+/-0.500	
2-Fluorophenol	98.04	8.31	20 - 110	4.264	4.272	-0.0080	+/-0.500	*
Nitrobenzene-d5	49.02	86.6	40 - 110	6.561	6.569	-0.0080	+/-0.500	
Phenol-d6	98.04	9.44	0 - 110	5.428	5.452	-0.0240	+/-0.500	
Terphenyl-d14	49.02	88.8	50 - 135	13.591	13.594	-0.0030	+/-0.500	
2,4,6-Tribromophenol	98.04	20.8	40 - 125	10.653	10.666	-0.0130	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B03312-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 01/31/12 14:41		
2-Fluorobiphenyl	50.00	108	80 - 120	8.823	8.823	0.0000	+/-0.500	
2-Fluorophenol	100.0	109	80 - 120	4.244	4.244	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	111	80 - 120	6.541	6.541	0.0000	+/-0.500	
Phenol-d6	100.0	108	80 - 120	5.425	5.425	0.0000	+/-0.500	
Terphenyl-d14	50.00	108	80 - 120	13.566	13.566	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	116	80 - 120	10.639	10.639	0.0000	+/-0.500	
Blank (2A30004-BLK1) ug/L				Lab File ID: A30004B1.D		Analyzed: 01/31/12 15:12		
2-Fluorobiphenyl	50.00	82.5	50 - 110	8.815	8.823	-0.0080	+/-0.500	
2-Fluorophenol	100.0	36.6	20 - 110	4.237	4.244	-0.0070	+/-0.500	
Nitrobenzene-d5	50.00	81.9	40 - 110	6.534	6.541	-0.0070	+/-0.500	
Phenol-d6	100.0	19.9	0 - 110	5.402	5.425	-0.0230	+/-0.500	
Terphenyl-d14	50.00	89.1	50 - 135	13.564	13.566	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	87.4	40 - 125	10.632	10.639	-0.0070	+/-0.500	
LCS (2A30004-BS1) ug/L				Lab File ID: A30004L1.D		Analyzed: 01/31/12 15:42		
2-Fluorobiphenyl	50.00	84.7	50 - 110	8.82	8.823	-0.0030	+/-0.500	
2-Fluorophenol	100.0	27.8	20 - 110	4.242	4.244	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	83.6	40 - 110	6.539	6.541	-0.0020	+/-0.500	
Phenol-d6	100.0	20.2	0 - 110	5.412	5.425	-0.0130	+/-0.500	
Terphenyl-d14	50.00	84.7	50 - 135	13.564	13.566	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	62.2	40 - 125	10.636	10.639	-0.0030	+/-0.500	
LCS Dup (2A30004-BSD1) ug/L				Lab File ID: A30004L2.D		Analyzed: 01/31/12 16:13		
2-Fluorobiphenyl	50.00	82.7	50 - 110	8.821	8.823	-0.0020	+/-0.500	
2-Fluorophenol	100.0	38.2	20 - 110	4.237	4.244	-0.0070	+/-0.500	
Nitrobenzene-d5	50.00	82.7	40 - 110	6.54	6.541	-0.0010	+/-0.500	
Phenol-d6	100.0	21.9	0 - 110	5.413	5.425	-0.0120	+/-0.500	
Terphenyl-d14	50.00	87.6	50 - 135	13.565	13.566	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	92.7	40 - 125	10.637	10.639	-0.0020	+/-0.500	
GW0430 (1201139-11RE1) ug/L				Lab File ID: 0113911R.D		Analyzed: 01/31/12 16:43		
2-Fluorobiphenyl	48.08	88.7	50 - 110	8.817	8.823	-0.0060	+/-0.500	
2-Fluorophenol	96.15	19.1	20 - 110	4.234	4.244	-0.0100	+/-0.500	*
Nitrobenzene-d5	48.08	86.6	40 - 110	6.531	6.541	-0.0100	+/-0.500	
Phenol-d6	96.15	15.1	0 - 110	5.398	5.425	-0.0270	+/-0.500	
Terphenyl-d14	48.08	86.2	50 - 135	13.567	13.566	0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	52.8	40 - 125	10.628	10.639	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0404 (1201151-01) ug/L				Lab File ID: 0115101.D		Analyzed: 01/31/12 17:14		
2-Fluorobiphenyl	46.73	85.2	50 - 110	8.817	8.823	-0.0060	+/-0.500	
2-Fluorophenol	93.46	30.7	20 - 110	4.234	4.244	-0.0100	+/-0.500	
Nitrobenzene-d5	46.73	82.3	40 - 110	6.531	6.541	-0.0100	+/-0.500	
Phenol-d6	93.46	18.3	0 - 110	5.404	5.425	-0.0210	+/-0.500	
Terphenyl-d14	46.73	70.4	50 - 135	13.561	13.566	-0.0050	+/-0.500	
2,4,6-Tribromophenol	93.46	76.2	40 - 125	10.628	10.639	-0.0110	+/-0.500	
GW0410 (1201151-03) ug/L				Lab File ID: 0115103.D		Analyzed: 01/31/12 17:44		
2-Fluorobiphenyl	50.00	72.7	50 - 110	8.817	8.823	-0.0060	+/-0.500	
2-Fluorophenol	100.0	18.6	20 - 110	4.234	4.244	-0.0100	+/-0.500	*
Nitrobenzene-d5	50.00	69.2	40 - 110	6.531	6.541	-0.0100	+/-0.500	
Phenol-d6	100.0	14.0	0 - 110	5.404	5.425	-0.0210	+/-0.500	
Terphenyl-d14	50.00	78.9	50 - 135	13.561	13.566	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	43.3	40 - 125	10.628	10.639	-0.0110	+/-0.500	
GW0429 (1201151-05) ug/L				Lab File ID: 0115105.D		Analyzed: 01/31/12 18:14		
2-Fluorobiphenyl	49.02	80.3	50 - 110	8.816	8.823	-0.0070	+/-0.500	
2-Fluorophenol	98.04	28.1	20 - 110	4.237	4.244	-0.0070	+/-0.500	
Nitrobenzene-d5	49.02	77.9	40 - 110	6.535	6.541	-0.0060	+/-0.500	
Phenol-d6	98.04	16.8	0 - 110	5.402	5.425	-0.0230	+/-0.500	
Terphenyl-d14	49.02	67.5	50 - 135	13.559	13.566	-0.0070	+/-0.500	
2,4,6-Tribromophenol	98.04	68.4	40 - 125	10.627	10.639	-0.0120	+/-0.500	
GW0468 (1201193-05) ug/L				Lab File ID: 0119305.D		Analyzed: 01/31/12 19:45		
2-Fluorobiphenyl	47.17	76.8	50 - 110	8.816	8.823	-0.0070	+/-0.500	
2-Fluorophenol	94.34	25.6	20 - 110	4.232	4.244	-0.0120	+/-0.500	
Nitrobenzene-d5	47.17	75.6	40 - 110	6.53	6.541	-0.0110	+/-0.500	
Phenol-d6	94.34	16.0	0 - 110	5.402	5.425	-0.0230	+/-0.500	
Terphenyl-d14	47.17	83.8	50 - 135	13.565	13.566	-0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	55.3	40 - 125	10.627	10.639	-0.0120	+/-0.500	
GW0472 (1201193-07) ug/L				Lab File ID: 0119307.D		Analyzed: 01/31/12 20:15		
2-Fluorobiphenyl	47.17	72.1	50 - 110	8.816	8.823	-0.0070	+/-0.500	
2-Fluorophenol	94.34	27.5	20 - 110	4.232	4.244	-0.0120	+/-0.500	
Nitrobenzene-d5	47.17	70.3	40 - 110	6.529	6.541	-0.0120	+/-0.500	
Phenol-d6	94.34	15.6	0 - 110	5.402	5.425	-0.0230	+/-0.500	
Terphenyl-d14	47.17	80.5	50 - 135	13.559	13.566	-0.0070	+/-0.500	
2,4,6-Tribromophenol	94.34	64.0	40 - 125	10.627	10.639	-0.0120	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
		Calibration:	2018001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0475 (1201193-09) ug/L				Lab File ID: 0119309.D		Analyzed: 01/31/12 20:46		
2-Fluorobiphenyl	48.08	75.2	50 - 110	8.817	8.823	-0.0060	+/-0.500	
2-Fluorophenol	96.15	32.5	20 - 110	4.239	4.244	-0.0050	+/-0.500	
Nitrobenzene-d5	48.08	73.5	40 - 110	6.531	6.541	-0.0100	+/-0.500	
Phenol-d6	96.15	18.1	0 - 110	5.404	5.425	-0.0210	+/-0.500	
Terphenyl-d14	48.08	84.6	50 - 135	13.567	13.566	0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	76.8	40 - 125	10.628	10.639	-0.0110	+/-0.500	
GW0493 (1201193-11) ug/L				Lab File ID: 0119311.D		Analyzed: 01/31/12 21:17		
2-Fluorobiphenyl	50.00	76.3	50 - 110	8.817	8.823	-0.0060	+/-0.500	
2-Fluorophenol	100.0	34.1	20 - 110	4.234	4.244	-0.0100	+/-0.500	
Nitrobenzene-d5	50.00	74.2	40 - 110	6.531	6.541	-0.0100	+/-0.500	
Phenol-d6	100.0	18.9	0 - 110	5.404	5.425	-0.0210	+/-0.500	
Terphenyl-d14	50.00	82.0	50 - 135	13.561	13.566	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	76.1	40 - 125	10.628	10.639	-0.0110	+/-0.500	
GW0466 (1201193-01) ug/L				Lab File ID: 0119301.D		Analyzed: 02/01/12 00:49		
2-Fluorobiphenyl	48.08	70.8	50 - 110	8.82	8.823	-0.0030	+/-0.500	
2-Fluorophenol	96.15	20.8	20 - 110	4.285	4.244	0.0410	+/-0.500	
Nitrobenzene-d5	48.08	66.5	40 - 110	6.539	6.541	-0.0020	+/-0.500	
Phenol-d6	96.15	15.6	0 - 110	5.438	5.425	0.0130	+/-0.500	
Terphenyl-d14	48.08	80.8	50 - 135	13.564	13.566	-0.0020	+/-0.500	
2,4,6-Tribromophenol	96.15	52.9	40 - 125	10.631	10.639	-0.0080	+/-0.500	
GW0467 (1201193-03) ug/L				Lab File ID: 0119303.D		Analyzed: 02/01/12 01:19		
2-Fluorobiphenyl	48.08	79.0	50 - 110	8.821	8.823	-0.0020	+/-0.500	
2-Fluorophenol	96.15	33.0	20 - 110	4.285	4.244	0.0410	+/-0.500	
Nitrobenzene-d5	48.08	73.9	40 - 110	6.54	6.541	-0.0010	+/-0.500	
Phenol-d6	96.15	20.2	0 - 110	5.445	5.425	0.0200	+/-0.500	
Terphenyl-d14	48.08	91.2	50 - 135	13.565	13.566	-0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	87.4	40 - 125	10.637	10.639	-0.0020	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26004	Laboratory ID:	2A26004-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	50.00	46.27	92.5	45 - 110
Acenaphthylene	50.00	48.16	96.3	50 - 105
Acetophenone	50.00	51.44	103	50 - 110
Anthracene	50.00	51.28	103	55 - 110
Atrazine	**50.00**	**58.91**	**118**	**70 - 115**
Benzaldehyde	50.00	53.95	108	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	51.61	103	55 - 110
Benzo(a)pyrene	50.00	53.85	108	55 - 110
Benzo(b)fluoranthene	50.00	57.35	115	45 - 120
Benzo(g,h,i)perylene	50.00	44.74	89.5	40 - 125
Benzoic acid	100.0	16.97	17.0	0 - 125
Benzo(k)fluoranthene	50.00	54.46	109	45 - 125
1,1-Biphenyl	50.00	54.91	110	50 - 110
4-Bromophenyl-phenylether	50.00	54.94	110	50 - 115
Butylbenzylphthalate	**50.00**	**58.14**	**116**	**45 - 115**
Caprolactam	**50.00**	**8.232**	**16.5**	**20 - 110**
Carbazole	50.00	51.21	102	50 - 115
4-Chloro-3-methylphenol	100.0	83.41	83.4	45 - 110
4-Chloroaniline	50.00	36.08	72.2	15 - 110
Bis(2-chloroethoxy)methane	50.00	50.46	101	45 - 105
Bis(2-chloroethyl)ether	50.00	46.50	93.0	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	47.46	94.9	25 - 130
2-Chloronaphthalene	50.00	46.88	93.8	50 - 105
2-Chlorophenol	100.0	70.51	70.5	35 - 105
4-Chlorophenyl phenyl ether	50.00	51.91	104	50 - 110
Chrysene	50.00	53.17	106	55 - 110
Dibenz(a,h)anthracene	50.00	49.45	98.9	40 - 125
Dibenzofuran	50.00	48.74	97.5	55 - 105
Di-n-butylphthalate	50.00	54.85	110	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26004	Laboratory ID:	2A26004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	**50.00**	**62.65**	**125**	**20 - 110**
2,4-Dichlorophenol	100.0	88.31	88.3	40 - 110
Diethylphthalate	50.00	51.98	104	40 - 120
2,4-Dimethylphenol	100.0	85.28	85.3	30 - 110
Dimethyl phthalate	50.00	51.85	104	25 - 125
4,6-Dinitro-2-methylphenol	100.0	98.87	98.9	40 - 130
2,4-Dinitrophenol	100.0	81.18	81.2	15 - 140
2,4-Dinitrotoluene	50.00	50.48	101	50 - 120
2,6-Dinitrotoluene	50.00	48.57	97.1	50 - 115
Di-n-octylphthalate	**50.00**	**74.94**	**150**	**35 - 135**
1,2-Diphenylhydrazine	50.00	53.07	106	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	59.05	118	40 - 125
Fluoranthene	50.00	53.67	107	55 - 115
Fluorene	50.00	50.57	101	50 - 110
Hexachlorobenzene	50.00	53.31	107	50 - 110
Hexachlorobutadiene	50.00	32.18	64.4	25 - 105
Hexachlorocyclopentadiene	50.00	43.50	87.0	10 - 110
Hexachloroethane	50.00	25.99	52.0	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	48.39	96.8	45 - 125
Isophorone	50.00	47.90	95.8	50 - 110
1-Methylnaphthalene	50.00	42.80	85.6	30 - 115
2-Methylnaphthalene	50.00	43.54	87.1	45 - 105
2-Methylphenol	100.0	60.37	60.4	40 - 110
3-Methylphenol/4-Methylphenol	100.0	53.84	53.8	30 - 110
Naphthalene	50.00	39.78	79.6	40 - 100
4-Nitroaniline	50.00	41.68	83.4	35 - 120
3-Nitroaniline	50.00	36.98	74.0	20 - 125
2-Nitroaniline	50.00	50.34	101	50 - 115
Nitrobenzene	50.00	46.90	93.8	30 - 110
4-Nitrophenol	100.0	27.61	27.6	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26004	Laboratory ID:	2A26004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	100.0	90.95	90.9	40 - 115
N-Nitrosodiphenylamine	50.00	45.72	91.4	50 - 110
N-Nitroso-di-n-propylamine	50.00	50.92	102	35 - 130
Pentachlorophenol	100.0	99.13	99.1	40 - 115
Phenanthrene	50.00	51.85	104	50 - 115
Phenol	100.0	22.46	22.5	0 - 115
Pyrene	50.00	48.76	97.5	50 - 130
2,4,6-Trichlorophenol	100.0	97.59	97.6	50 - 115
2,4,5-Trichlorophenol	100.0	102.2	102	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30004	Laboratory ID:	2A30004-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	50.00	44.85	89.7	45 - 110
Acenaphthylene	50.00	46.04	92.1	50 - 105
Acetophenone	50.00	48.55	97.1	50 - 110
Anthracene	50.00	47.39	94.8	55 - 110
Atrazine	50.00	54.40	109	70 - 115
Benzaldehyde	50.00	52.12	104	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	48.91	97.8	55 - 110
Benzo(a)pyrene	50.00	49.01	98.0	55 - 110
Benzo(b)fluoranthene	50.00	49.56	99.1	45 - 120
Benzo(g,h,i)perylene	50.00	52.54	105	40 - 125
Benzoic acid	100.0	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	49.31	98.6	45 - 125
1,1-Biphenyl	50.00	50.78	102	50 - 110
4-Bromophenyl-phenylether	50.00	51.80	104	50 - 115
Butylbenzylphthalate	50.00	55.09	110	45 - 115
Caprolactam	**50.00**	**9.568**	**19.1**	**20 - 110**
Carbazole	50.00	44.19	88.4	50 - 115
4-Chloro-3-methylphenol	100.0	76.35	76.3	45 - 110
4-Chloroaniline	50.00	36.44	72.9	15 - 110
Bis(2-chloroethoxy)methane	50.00	48.19	96.4	45 - 105
Bis(2-chloroethyl)ether	50.00	45.57	91.1	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	44.99	90.0	25 - 130
2-Chloronaphthalene	50.00	46.29	92.6	50 - 105
2-Chlorophenol	100.0	57.12	57.1	35 - 105
4-Chlorophenyl phenyl ether	50.00	48.02	96.0	50 - 110
Chrysene	50.00	50.96	102	55 - 110
Dibenz(a,h)anthracene	50.00	53.92	108	40 - 125
Dibenzofuran	50.00	46.94	93.9	55 - 105
Di-n-butylphthalate	50.00	51.34	103	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30004	Laboratory ID:	2A30004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	**50.00**	**60.57**	**121**	**20 - 110**
2,4-Dichlorophenol	100.0	65.02	65.0	40 - 110
Diethylphthalate	50.00	50.16	100	40 - 120
2,4-Dimethylphenol	100.0	81.71	81.7	30 - 110
Dimethyl phthalate	50.00	49.48	99.0	25 - 125
4,6-Dinitro-2-methylphenol	100.0	43.77	43.8	40 - 130
2,4-Dinitrophenol	100.0	29.67	29.7	15 - 140
2,4-Dinitrotoluene	50.00	49.63	99.3	50 - 120
2,6-Dinitrotoluene	50.00	47.44	94.9	50 - 115
Di-n-octylphthalate	50.00	62.32	125	35 - 135
1,2-Diphenylhydrazine	50.00	48.12	96.2	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	56.62	113	40 - 125
Fluoranthene	50.00	49.22	98.4	55 - 115
Fluorene	50.00	47.60	95.2	50 - 110
Hexachlorobenzene	50.00	49.73	99.5	50 - 110
Hexachlorobutadiene	50.00	38.24	76.5	25 - 105
Hexachlorocyclopentadiene	50.00	43.71	87.4	10 - 110
Hexachloroethane	50.00	33.90	67.8	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	53.42	107	45 - 125
Isophorone	50.00	44.58	89.2	50 - 110
1-Methylnaphthalene	50.00	41.49	83.0	30 - 115
2-Methylnaphthalene	50.00	42.58	85.2	45 - 105
2-Methylphenol	100.0	59.78	59.8	40 - 110
3-Methylphenol/4-Methylphenol	100.0	54.30	54.3	30 - 110
Naphthalene	50.00	40.76	81.5	40 - 100
4-Nitroaniline	50.00	39.46	78.9	35 - 120
3-Nitroaniline	50.00	39.58	79.2	20 - 125
2-Nitroaniline	50.00	48.68	97.4	50 - 115
Nitrobenzene	50.00	44.03	88.1	30 - 110
4-Nitrophenol	100.0	16.08	16.1	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30004	Laboratory ID:	2A30004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	100.0	63.07	63.1	40 - 115
N-Nitrosodiphenylamine	50.00	40.90	81.8	50 - 110
N-Nitroso-di-n-propylamine	50.00	48.59	97.2	35 - 130
Pentachlorophenol	100.0	42.39	42.4	40 - 115
Phenanthrene	50.00	48.38	96.8	50 - 115
Phenol	100.0	22.79	22.8	0 - 115
Pyrene	50.00	45.25	90.5	50 - 130
2,4,6-Trichlorophenol	100.0	55.57	55.6	50 - 115
2,4,5-Trichlorophenol	100.0	67.84	67.8	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	44.18	88.4	1.51	30	45 - 110
Acenaphthylene	50.00	44.84	89.7	2.63	30	50 - 105
Acetophenone	50.00	47.28	94.6	2.65	30	50 - 110
Anthracene	50.00	46.67	93.3	1.53	30	55 - 110
Atrazine	50.00	53.25	107	2.14	30	70 - 115
Benzaldehyde	50.00	49.68	99.4	4.80	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	48.04	96.1	1.80	30	55 - 110
Benzo(a)pyrene	50.00	48.25	96.5	1.55	30	55 - 110
Benzo(b)fluoranthene	50.00	48.86	97.7	1.44	30	45 - 120
Benzo(g,h,i)perylene	50.00	52.38	105	0.303	30	40 - 125
Benzoic acid	100.0	22.38	22.4		30	0 - 125
Benzo(k)fluoranthene	50.00	48.35	96.7	1.98	30	45 - 125
1,1-Biphenyl	50.00	50.02	100	1.51	30	50 - 110
4-Bromophenyl-phenylether	50.00	50.64	101	2.28	30	50 - 115
Butylbenzylphthalate	50.00	53.16	106	3.56	30	45 - 115
Caprolactam	**50.00**	**9.331**	**18.7 ***	**2.51**	**30**	**20 - 110**
Carbazole	50.00	43.71	87.4	1.09	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30004	Laboratory ID:	2A30004-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	100.0	79.81	79.8	4.43	30	45 - 110
4-Chloroaniline	50.00	33.72	67.4	7.75	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	46.93	93.9	2.65	30	45 - 105
Bis(2-chloroethyl)ether	50.00	43.89	87.8	3.75	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	42.82	85.6	4.93	30	25 - 130
2-Chloronaphthalene	50.00	44.83	89.7	3.22	30	50 - 105
2-Chlorophenol	100.0	69.05	69.0	18.9	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	47.14	94.3	1.84	30	50 - 110
Chrysene	50.00	50.76	102	0.409	30	55 - 110
Dibenz(a,h)anthracene	50.00	53.84	108	0.148	30	40 - 125
Dibenzofuran	50.00	45.95	91.9	2.13	30	55 - 105
Di-n-butylphthalate	50.00	50.00	100	2.65	30	55 - 115
3,3'-Dichlorobenzidine	**50.00**	**60.22**	**120 ***	**0.567**	**30**	**20 - 110**
2,4-Dichlorophenol	100.0	82.40	82.4	23.6	30	40 - 110
Diethylphthalate	50.00	48.22	96.4	3.94	30	40 - 120
2,4-Dimethylphenol	100.0	81.10	81.1	0.756	30	30 - 110
Dimethyl phthalate	50.00	48.34	96.7	2.33	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	95.40	95.4	74.2 *	30	40 - 130
2,4-Dinitrophenol	100.0	83.38	83.4	95.0 *	30	15 - 140
2,4-Dinitrotoluene	50.00	48.20	96.4	2.93	30	50 - 120
2,6-Dinitrotoluene	50.00	46.56	93.1	1.88	30	50 - 115
Di-n-octylphthalate	50.00	58.65	117	6.06	30	35 - 135
1,2-Diphenylhydrazine	50.00	48.19	96.4	0.150	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	54.31	109	4.15	30	40 - 125
Fluoranthene	50.00	48.41	96.8	1.66	30	55 - 115
Fluorene	50.00	46.38	92.8	2.59	30	50 - 110
Hexachlorobenzene	50.00	48.90	97.8	1.68	30	50 - 110
Hexachlorobutadiene	50.00	37.57	75.1	1.75	30	25 - 105
Hexachlorocyclopentadiene	50.00	45.55	91.1	4.14	30	10 - 110
Hexachloroethane	50.00	32.58	65.2	3.99	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30004	Laboratory ID:	2A30004-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	50.00	52.98	106	0.826	30	45 - 125
Isophorone	50.00	44.00	88.0	1.31	30	50 - 110
1-Methylnaphthalene	50.00	40.33	80.7	2.83	30	30 - 115
2-Methylnaphthalene	50.00	41.61	83.2	2.32	30	45 - 105
2-Methylphenol	100.0	59.66	59.7	0.207	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	53.73	53.7	1.05	30	30 - 110
Naphthalene	50.00	40.12	80.2	1.59	30	40 - 100
4-Nitroaniline	50.00	38.32	76.6	2.95	30	35 - 120
3-Nitroaniline	50.00	33.81	67.6	15.7	30	20 - 125
2-Nitroaniline	50.00	47.83	95.7	1.74	30	50 - 115
Nitrobenzene	50.00	43.54	87.1	1.12	30	30 - 110
4-Nitrophenol	100.0	31.17	31.2	63.9 *	30	0 - 125
2-Nitrophenol	100.0	84.76	84.8	29.3	30	40 - 115
N-Nitrosodiphenylamine	50.00	40.54	81.1	0.893	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	46.51	93.0	4.38	30	35 - 130
Pentachlorophenol	100.0	92.18	92.2	74.0 *	30	40 - 115
Phenanthrene	50.00	47.98	96.0	0.827	30	50 - 115
Phenol	100.0	24.70	24.7	8.03	30	0 - 115
Pyrene	50.00	45.43	90.9	0.414	30	50 - 130
2,4,6-Trichlorophenol	100.0	92.55	92.6	49.9 *	30	50 - 115
2,4,5-Trichlorophenol	100.0	95.92	95.9	34.3 *	30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26004

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	47.17	ND	40.98	86.9		45 - 110
Acenaphthylene	47.17	ND	41.44	87.8		50 - 105
Acetophenone	47.17	ND	41.92	88.9		50 - 110
Anthracene	47.17	ND	46.42	98.4		55 - 110
Atrazine	47.17	ND	53.25	113		70 - 115
Benzaldehyde	47.17	ND	43.73	92.7		10 - 180
Benzidine	47.17	ND	47.2 U	0		0 - 200
Benzo(a)anthracene	47.17	ND	48.49	103		55 - 110
Benzo(a)pyrene	47.17	ND	50.64	107		55 - 110
Benzo(b)fluoranthene	47.17	ND	54.92	116		45 - 120
Benzo(g,h,i)perylene	47.17	ND	43.85	93.0		40 - 125
Benzoic acid	94.34	ND	47.2 U	0		0 - 125
Benzo(k)fluoranthene	47.17	ND	52.90	112		45 - 125
1,1-Biphenyl	47.17	ND	45.73	96.9		50 - 110
4-Bromophenyl-phenylether	47.17	ND	50.46	107		50 - 115
Butylbenzylphthalate	47.17	ND	58.26	124	*	45 - 115
Caprolactam	47.17	ND	7.082	15.0	*	20 - 110
Carbazole	47.17	ND	44.73	94.8		50 - 115
4-Chloro-3-methylphenol	94.34	ND	71.86	76.2		45 - 110
4-Chloroaniline	47.17	ND	31.32	66.4		15 - 110
Bis(2-chloroethoxy)methane	47.17	ND	42.38	89.9		45 - 105
Bis(2-chloroethyl)ether	47.17	ND	37.77	80.1		35 - 110
2,2'-Oxybis-1-chloropropane	47.17	ND	37.56	79.6		25 - 130
2-Chloronaphthalene	47.17	ND	41.19	87.3		50 - 105
2-Chlorophenol	94.34	ND	52.91	56.1		35 - 105
4-Chlorophenyl phenyl ether	47.17	ND	46.22	98.0		50 - 110
Chrysene	47.17	ND	49.89	106		55 - 110
Dibenz(a,h)anthracene	47.17	ND	45.51	96.5		40 - 125
Dibenzofuran	47.17	ND	43.50	92.2		55 - 105
Di-n-butylphthalate	47.17	ND	49.55	105		55 - 115
3,3'-Dichlorobenzidine	47.17	ND	55.84	118	*	20 - 110
2,4-Dichlorophenol	94.34	ND	68.60	72.7		40 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26004

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	47.17	ND	47.54	101		40 - 120
2,4-Dimethylphenol	94.34	ND	69.52	73.7		30 - 110
Dimethyl phthalate	47.17	ND	47.88	102		25 - 125
4,6-Dinitro-2-methylphenol	94.34	ND	52.83	56.0		40 - 130
2,4-Dinitrophenol	94.34	ND	26.34	27.9		15 - 140
2,4-Dinitrotoluene	47.17	ND	46.52	98.6		50 - 120
2,6-Dinitrotoluene	47.17	ND	44.91	95.2		50 - 115
Di-n-octylphthalate	47.17	ND	78.04	165	*	35 - 135
1,2-Diphenylhydrazine	47.17	ND	46.35	98.3		55 - 115
Bis(2-ethylhexyl)phthalate	47.17	ND	58.91	125		40 - 125
Fluoranthene	47.17	ND	45.67	96.8		55 - 115
Fluorene	47.17	ND	44.80	95.0		50 - 110
Hexachlorobenzene	47.17	ND	48.20	102		50 - 110
Hexachlorobutadiene	47.17	ND	28.09	59.6		25 - 105
Hexachlorocyclopentadiene	47.17	ND	41.47	87.9		10 - 110
Hexachloroethane	47.17	ND	20.94	44.4		30 - 95
Indeno(1,2,3-cd)pyrene	47.17	ND	45.04	95.5		45 - 125
Isophorone	47.17	ND	39.30	83.3		50 - 110
1-Methylnaphthalene	47.17	ND	36.66	77.7		30 - 115
2-Methylnaphthalene	47.17	ND	37.64	79.8		45 - 105
2-Methylphenol	94.34	ND	46.46	49.2		40 - 110
3-Methylphenol/4-Methylphenol	94.34	ND	42.48	45.0		30 - 110
Naphthalene	47.17	ND	33.59	71.2		40 - 100
4-Nitroaniline	47.17	ND	38.82	82.3		35 - 120
3-Nitroaniline	47.17	ND	35.37	75.0		20 - 125
2-Nitroaniline	47.17	ND	44.05	93.4		50 - 115
Nitrobenzene	47.17	ND	37.79	80.1		30 - 110
4-Nitrophenol	94.34	ND	14.25	15.1		0 - 125
2-Nitrophenol	94.34	ND	72.04	76.4		40 - 115
N-Nitrosodiphenylamine	47.17	ND	40.85	86.6		50 - 110
N-Nitroso-di-n-propylamine	47.17	ND	41.38	87.7		35 - 130
Pentachlorophenol	94.34	ND	59.36	62.9		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26004

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	47.17	ND	47.44	101		50 - 115
Phenol	94.34	ND	17.95	19.0		0 - 115
Pyrene	47.17	ND	51.39	109		50 - 130
2,4,6-Trichlorophenol	94.34	ND	69.01	73.2		50 - 115
2,4,5-Trichlorophenol	94.34	ND	82.63	87.6		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26004

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	47.04	94.1	13.8		30	45 - 110
Acenaphthylene	50.00	47.87	95.7	14.4		30	50 - 105
Acetophenone	50.00	51.33	103	20.2		30	50 - 110
Anthracene	50.00	50.40	101	8.22		30	55 - 110
Atrazine	50.00	58.14	116	8.78	*	30	70 - 115
Benzaldehyde	50.00	55.05	110	22.9		30	10 - 180
Benzidine	50.00	50.0 U	0			30	0 - 200
Benzo(a)anthracene	50.00	51.92	104	6.83		30	55 - 110
Benzo(a)pyrene	50.00	53.16	106	4.87		30	55 - 110
Benzo(b)fluoranthene	50.00	56.49	113	2.83		30	45 - 120
Benzo(g,h,i)perylene	50.00	51.52	103	16.1		30	40 - 125
Benzoic acid	100.0	50.0 U	0			30	0 - 125
Benzo(k)fluoranthene	50.00	52.41	105	0.935		30	45 - 125
1,1-Biphenyl	50.00	53.46	107	15.6		30	50 - 110
4-Bromophenyl-phenylether	50.00	54.50	109	7.70		30	50 - 115
Butylbenzylphthalate	50.00	56.84	114	2.47		30	45 - 115
Caprolactam	50.00	7.919	15.8	11.2	*	30	20 - 110
Carbazole	50.00	49.72	99.4	10.6		30	50 - 115
4-Chloro-3-methylphenol	100.0	87.05	87.1	19.1		30	45 - 110
4-Chloroaniline	50.00	39.35	78.7	22.7		30	15 - 110
Bis(2-chloroethoxy)methane	50.00	51.55	103	19.5		30	45 - 105
Bis(2-chloroethyl)ether	50.00	47.11	94.2	22.0		30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	47.46	94.9	23.3		30	25 - 130
2-Chloronaphthalene	50.00	48.32	96.6	15.9		30	50 - 105
2-Chlorophenol	100.0	60.33	60.3	13.1		30	35 - 105
4-Chlorophenyl phenyl ether	50.00	51.95	104	11.7		30	50 - 110
Chrysene	50.00	54.09	108	8.08		30	55 - 110
Dibenz(a,h)anthracene	50.00	55.11	110	19.1		30	40 - 125
Dibenzofuran	50.00	49.07	98.1	12.0		30	55 - 105
Di-n-butylphthalate	50.00	54.23	108	9.01		30	55 - 115
3,3'-Dichlorobenzidine	50.00	67.44	135	18.8	*	30	20 - 110
2,4-Dichlorophenol	100.0	72.57	72.6	5.62		30	40 - 110
Diethylphthalate	50.00	52.26	105	9.47		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26004

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	100.0	90.06	90.1	25.7		30	30 - 110
Dimethyl phthalate	50.00	52.75	105	9.66		30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	37.48	37.5	34.0	* *	30	40 - 130
2,4-Dinitrophenol	100.0	17.64	17.6	39.6	*	30	15 - 140
2,4-Dinitrotoluene	50.00	51.48	103	10.1		30	50 - 120
2,6-Dinitrotoluene	50.00	50.08	100	10.9		30	50 - 115
Di-n-octylphthalate	50.00	69.17	138	12.0	*	30	35 - 135
1,2-Diphenylhydrazine	50.00	50.08	100	7.73		30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	59.67	119	1.28		30	40 - 125
Fluoranthene	50.00	52.02	104	13.0		30	55 - 115
Fluorene	50.00	50.91	102	12.8		30	50 - 110
Hexachlorobenzene	50.00	52.24	104	8.04		30	50 - 110
Hexachlorobutadiene	50.00	36.21	72.4	25.3		30	25 - 105
Hexachlorocyclopentadiene	50.00	49.13	98.3	16.9		30	10 - 110
Hexachloroethane	50.00	27.62	55.2	27.5		30	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	53.01	106	16.3		30	45 - 125
Isophorone	50.00	47.27	94.5	18.4		30	50 - 110
1-Methylnaphthalene	50.00	43.97	87.9	18.1		30	30 - 115
2-Methylnaphthalene	50.00	45.57	91.1	19.1		30	45 - 105
2-Methylphenol	100.0	62.51	62.5	29.5		30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	55.00	55.0	25.7		30	30 - 110
Naphthalene	50.00	41.26	82.5	20.5		30	40 - 100
4-Nitroaniline	50.00	46.48	93.0	18.0		30	35 - 120
3-Nitroaniline	50.00	42.24	84.5	17.7		30	20 - 125
2-Nitroaniline	50.00	50.22	100	13.1		30	50 - 115
Nitrobenzene	50.00	46.05	92.1	19.7		30	30 - 110
4-Nitrophenol	100.0	12.03	12.0	16.9		30	0 - 125
2-Nitrophenol	100.0	71.22	71.2	1.14		30	40 - 115
N-Nitrosodiphenylamine	50.00	43.46	86.9	6.19		30	50 - 110
N-Nitroso-di-n-propylamine	50.00	50.90	102	20.6		30	35 - 130
Pentachlorophenol	100.0	41.55	41.5	35.3	*	30	40 - 115
Phenanthrene	50.00	51.33	103	7.88		30	50 - 115
Phenol	100.0	21.27	21.3	16.9		30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26004

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	50.00	47.56	95.1	7.73		30	50 - 130
2,4,6-Trichlorophenol	100.0	56.90	56.9	19.2		30	50 - 115
2,4,5-Trichlorophenol	100.0	73.65	73.7	11.5		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A26004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/26/12 12:00	900.00	1.00
GW0376	1201137-03	01/26/12 12:00	1,020.00	1.00
GW0377	1201137-05	01/26/12 12:00	1,000.00	1.00
GW0397	1201137-07	01/26/12 12:00	1,020.00	1.00
GW0398	1201137-09	01/26/12 12:00	1,040.00	1.00
GW0378	1201139-01	01/26/12 12:00	1,000.00	1.00
GW0379	1201139-03	01/26/12 12:00	1,040.00	1.00
GW0380	1201139-05	01/26/12 12:00	1,000.00	1.00
GW0396	1201139-07	01/26/12 12:00	1,040.00	1.00
GW0428	1201139-09	01/26/12 12:00	1,020.00	1.00
GW0430	1201139-11RE1	01/26/12 12:00	1,040.00	1.00
Blank	2A26004-BLK1	01/26/12 12:00	1,000.00	1.00
LCS	2A26004-BS1	01/26/12 12:00	1,000.00	1.00
GW0376	2A26004-MS1	01/26/12 12:00	1,060.00	1.00
GW0376	2A26004-MSD1	01/26/12 12:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A30004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0404	1201151-01	01/30/12 12:15	1,070.00	1.00
GW0410	1201151-03	01/30/12 12:15	1,000.00	1.00
GW0429	1201151-05	01/30/12 12:15	1,020.00	1.00
GW0466	1201193-01	01/30/12 12:15	1,040.00	1.00
GW0467	1201193-03	01/30/12 12:15	1,040.00	1.00
GW0468	1201193-05	01/30/12 12:15	1,060.00	1.00
GW0472	1201193-07	01/30/12 12:15	1,060.00	1.00
GW0475	1201193-09	01/30/12 12:15	1,040.00	1.00
GW0493	1201193-11	01/30/12 12:15	1,000.00	1.00
Blank	2A30004-BLK1	01/30/12 12:15	1,000.00	1.00
LCS	2A30004-BS1	01/30/12 12:15	1,000.00	1.00
LCS Dup	2A30004-BSD1	01/30/12 12:15	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/10/12
Instrument ID:	MS-BNA3	Injection Time:	09:34
Sequence:	2A01401	Lab Sample ID:	2A01401-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	44	PASS
70	Less than 2% of 69	0.453	PASS
127	40 - 60% of 198	47.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.59	PASS
275	10 - 30% of 198	21.8	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	81.2	PASS
442	40 - 200% of 198	53.3	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	01/11/12
Instrument ID:	MS-BNA3	Injection Time:	09:06
Sequence:	2A01401	Lab Sample ID:	2A01401-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	40.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	49.6	PASS
70	Less than 2% of 69	0.564	PASS
127	40 - 60% of 198	53.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.96	PASS
275	10 - 30% of 198	21	PASS
365	1 - 200% of 198	2.21	PASS
441	0.001 - 100% of 443	66.7	PASS
442	40 - 200% of 198	46.6	PASS
443	17 - 23% of 442	21.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/27/12
Instrument ID:	MS-BNA3	Injection Time:	11:59
Sequence:	2A02801	Lab Sample ID:	2A02801-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	48.1	PASS
70	Less than 2% of 69	0.424	PASS
127	40 - 60% of 198	51.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.29	PASS
275	10 - 30% of 198	22.5	PASS
365	1 - 200% of 198	2.29	PASS
441	0.001 - 100% of 443	73.1	PASS
442	40 - 200% of 198	51.3	PASS
443	17 - 23% of 442	20.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/28/12
Instrument ID:	MS-BNA3	Injection Time:	10:32
Sequence:	2A03106	Lab Sample ID:	2A03106-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	42.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.5	PASS
70	Less than 2% of 69	0.581	PASS
127	40 - 60% of 198	55.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.69	PASS
275	10 - 30% of 198	23.2	PASS
365	1 - 200% of 198	2.16	PASS
441	0.001 - 100% of 443	73	PASS
442	40 - 200% of 198	44.4	PASS
443	17 - 23% of 442	21.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/31/12
Instrument ID:	MS-BNA3	Injection Time:	14:17
Sequence:	2B03312	Lab Sample ID:	2B03312-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.2	PASS
70	Less than 2% of 69	0.586	PASS
127	40 - 60% of 198	55.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.94	PASS
275	10 - 30% of 198	18.1	PASS
365	1 - 200% of 198	1.77	PASS
441	0.001 - 100% of 443	69.1	PASS
442	40 - 200% of 198	44.8	PASS
443	17 - 23% of 442	19.9	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A01401	Instrument:	MS-BNA3
Calibration:	2018001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A01401-TUN1	SEQ-TUN1.D	01/10/12 09:34
Cal Standard	2A01401-CAL1	SEQ-CAL1.D	01/10/12 09:58
Cal Standard	2A01401-CAL2	SEQ-CAL2.D	01/10/12 10:28
Cal Standard	2A01401-CAL3	SEQ-CAL3.D	01/10/12 10:59
Cal Standard	2A01401-CAL4	SEQ-CAL4.D	01/10/12 11:30
Cal Standard	2A01401-CAL5	SEQ-CAL5.D	01/10/12 12:00
Cal Standard	2A01401-CAL6	SEQ-CAL6.D	01/10/12 12:31
Cal Standard	2A01401-CAL7	SEQ-CAL7.D	01/10/12 13:02
Cal Standard	2A01401-CAL8	SEQ-CAL8.D	01/10/12 13:32
Cal Standard	2A01401-CAL9	SEQ-CAL9.D	01/10/12 14:02
Cal Standard	2A01401-CALA	SEQ-CALA.D	01/10/12 14:33
Cal Standard	2A01401-CALB	SEQ-CALB.D	01/10/12 15:04
Cal Standard	2A01401-CALC	SEQ-CALC.D	01/10/12 15:35
Cal Standard	2A01401-CALD	SEQ-CALD.D	01/10/12 16:05
Cal Standard	2A01401-CALE	SEQ-CALE.D	01/10/12 16:36
Cal Standard	2A01401-CALF	SEQ-CALF.D	01/10/12 17:07
MS Tune	2A01401-TUN2	SEQ-TUN2.D	01/11/12 09:06
Initial Cal Check	2A01401-ICV1	SEQ-ICV1.D	01/11/12 09:30
Initial Cal Check	2A01401-ICV2	SEQ-ICV3.D	01/11/12 12:01
Initial Cal Check	2A01401-ICV3	SEQ-ICV4.D	01/11/12 12:32
Initial Cal Check	2A01401-ICV4	SEQ-ICV5.D	01/11/12 13:32

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02801	Instrument:	MS-BNA3
Calibration:	2018001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A02801-TUN1	SEQ-TUN1.D	01/27/12 11:59
Calibration Check	2A02801-CCV1	SEQ-CCV1.D	01/27/12 12:23
Blank	2A26004-BLK1	A26004B1.D	01/27/12 20:30
LCS	2A26004-BS1	A26004L1.D	01/27/12 21:00
GW0375	1201137-01	0113701.D	01/27/12 22:31
GW0377	1201137-05	0113705.D	01/27/12 23:02

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
Calibration:	2018001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A03106-TUN1	SEQ-TUN1.D	01/28/12 10:32
Calibration Check	2A03106-CCV1	SEQ-CCV1.D	01/28/12 10:56
GW0376	1201137-03	0113703.D	01/28/12 11:27
GW0376	2A26004-MS1	0113703M.D	01/28/12 11:58
GW0376	2A26004-MSD1	0113703S.D	01/28/12 12:29
GW0397	1201137-07	0113707.D	01/28/12 13:00
GW0398	1201137-09	0113709.D	01/28/12 13:31
GW0378	1201139-01	0113901.D	01/28/12 14:02
GW0379	1201139-03	0113903.D	01/28/12 14:33
GW0380	1201139-05	0113905.D	01/28/12 15:03
GW0396	1201139-07	0113907.D	01/28/12 15:33
GW0428	1201139-09	0113909.D	01/28/12 16:04

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
Calibration:	2018001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2B03312-TUN1	SEQ-TUN1.D	01/31/12 14:17
Calibration Check	2B03312-CCV1	SEQ-CCV1.D	01/31/12 14:41
Blank	2A30004-BLK1	A30004B1.D	01/31/12 15:12
LCS	2A30004-BS1	A30004L1.D	01/31/12 15:42
LCS Dup	2A30004-BSD1	A30004L2.D	01/31/12 16:13
GW0430	1201139-11RE1	0113911R.D	01/31/12 16:43
GW0404	1201151-01	0115101.D	01/31/12 17:14
GW0410	1201151-03	0115103.D	01/31/12 17:44
GW0429	1201151-05	0115105.D	01/31/12 18:14
GW0468	1201193-05	0119305.D	01/31/12 19:45
GW0472	1201193-07	0119307.D	01/31/12 20:15
GW0475	1201193-09	0119309.D	01/31/12 20:46
GW0493	1201193-11	0119311.D	01/31/12 21:17
GW0466	1201193-01	0119301.D	02/01/12 00:49
GW0467	1201193-03	0119303.D	02/01/12 01:19

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02801	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A02801-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 01/27/12 12:23			
1,4-Dichlorobenzene-d4	776412	5.801	753433	5.979	103	50 - 200	-0.1780	+/-0.50	
Naphthalene-d8	2673310	7.451	2615702	7.624	102	50 - 200	-0.1730	+/-0.50	
Acenaphthene-d10	1544327	9.679	1489342	9.847	104	50 - 200	-0.1680	+/-0.50	
Phenanthrene-d10	2592243	11.479	2539246	11.652	102	50 - 200	-0.1730	+/-0.50	
Chrysene-d12	2352063	15.347	1974246	15.59	119	50 - 200	-0.2430	+/-0.50	
Perylene-d12	1745352	17.997	1512987	18.266	115	50 - 200	-0.2690	+/-0.50	
Blank (2A26004-BLK1)			Lab File ID: A26004B1.D			Analyzed: 01/27/12 20:30			
1,4-Dichlorobenzene-d4	867215	5.795	776412	5.801	112	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	3073653	7.445	2673310	7.451	115	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1758160	9.668	1544327	9.679	114	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	2863887	11.468	2592243	11.479	110	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	2631031	15.336	2352063	15.347	112	50 - 200	-0.0110	+/-0.50	
Perylene-d12	2275547	17.996	1745352	17.997	130	50 - 200	-0.0010	+/-0.50	
LCS (2A26004-BS1)			Lab File ID: A26004L1.D			Analyzed: 01/27/12 21:00			
1,4-Dichlorobenzene-d4	915431	5.798	776412	5.801	118	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	3185504	7.454	2673310	7.451	119	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1832290	9.677	1544327	9.679	119	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2969214	11.477	2592243	11.479	115	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	2596290	15.345	2352063	15.347	110	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1773885	18	1745352	17.997	102	50 - 200	0.0030	+/-0.50	
GW0375 (1201137-01)			Lab File ID: 0113701.D			Analyzed: 01/27/12 22:31			
1,4-Dichlorobenzene-d4	971909	5.798	776412	5.801	125	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	3373700	7.449	2673310	7.451	126	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1934780	9.671	1544327	9.679	125	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	3203414	11.471	2592243	11.479	124	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	3019073	15.339	2352063	15.347	128	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2833608	17.999	1745352	17.997	162	50 - 200	0.0020	+/-0.50	
GW0377 (1201137-05)			Lab File ID: 0113705.D			Analyzed: 01/27/12 23:02			
1,4-Dichlorobenzene-d4	793198	5.798	776412	5.801	102	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2743739	7.443	2673310	7.451	103	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1547727	9.671	1544327	9.679	100	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2431060	11.466	2592243	11.479	94	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	2021523	15.334	2352063	15.347	86	50 - 200	-0.0130	+/-0.50	
Perylene-d12	1670653	17.989	1745352	17.997	96	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A03106-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 01/28/12 10:56			
1,4-Dichlorobenzene-d4	886042	5.805	753433	5.979	118	50 - 200	-0.1740	+/-0.50	
Naphthalene-d8	3016495	7.455	2615702	7.624	115	50 - 200	-0.1690	+/-0.50	
Acenaphthene-d10	1691009	9.678	1489342	9.847	114	50 - 200	-0.1690	+/-0.50	
Phenanthrene-d10	2793897	11.478	2539246	11.652	110	50 - 200	-0.1740	+/-0.50	
Chrysene-d12	2028491	15.34	1974246	15.59	103	50 - 200	-0.2500	+/-0.50	
Perylene-d12	1383310	17.99	1512987	18.266	91	50 - 200	-0.2760	+/-0.50	
GW0376 (1201137-03)			Lab File ID: 0113703.D			Analyzed: 01/28/12 11:27			
1,4-Dichlorobenzene-d4	1041737	5.794	886042	5.805	118	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	3649642	7.445	3016495	7.455	121	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	2080706	9.673	1691009	9.678	123	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	3474852	11.467	2793897	11.478	124	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	2973470	15.335	2028491	15.34	147	50 - 200	-0.0050	+/-0.50	
Perylene-d12	2603655	17.99	1383310	17.99	188	50 - 200	0.0000	+/-0.50	
Matrix Spike (2A26004-MS1)			Lab File ID: 0113703M.D			Analyzed: 01/28/12 11:58			
1,4-Dichlorobenzene-d4	1004037	5.798	886042	5.805	113	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	3423307	7.454	3016495	7.455	113	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1946502	9.676	1691009	9.678	115	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	3174504	11.477	2793897	11.478	114	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2230969	15.344	2028491	15.34	110	50 - 200	0.0040	+/-0.50	
Perylene-d12	1318980	17.989	1383310	17.99	95	50 - 200	-0.0010	+/-0.50	
Matrix Spike Dup (2A26004-MSD1)			Lab File ID: 0113703S.D			Analyzed: 01/28/12 12:29			
1,4-Dichlorobenzene-d4	928920	5.799	886042	5.805	105	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	3200639	7.455	3016495	7.455	106	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1838907	9.672	1691009	9.678	109	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	3059868	11.473	2793897	11.478	110	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	2655398	15.346	2028491	15.34	131	50 - 200	0.0060	+/-0.50	
Perylene-d12	2007039	17.995	1383310	17.99	145	50 - 200	0.0050	+/-0.50	
GW0397 (1201137-07)			Lab File ID: 0113707.D			Analyzed: 01/28/12 13:00			
1,4-Dichlorobenzene-d4	898562	5.797	886042	5.805	101	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	3197499	7.453	3016495	7.455	106	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1750932	9.675	1691009	9.678	104	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	2904662	11.47	2793897	11.478	104	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2606563	15.333	2028491	15.34	128	50 - 200	-0.0070	+/-0.50	
Perylene-d12	1986922	17.988	1383310	17.99	144	50 - 200	-0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0398 (1201137-09)			Lab File ID: 0113709.D			Analyzed: 01/28/12 13:31			
1,4-Dichlorobenzene-d4	941025	5.799	886042	5.805	106	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	3247623	7.445	3016495	7.455	108	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1884727	9.672	1691009	9.678	111	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	3168431	11.467	2793897	11.478	113	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	2862951	15.335	2028491	15.34	141	50 - 200	-0.0050	+/-0.50	
Perylene-d12	2624447	17.996	1383310	17.99	190	50 - 200	0.0060	+/-0.50	
GW0378 (1201139-01)			Lab File ID: 0113901.D			Analyzed: 01/28/12 14:02			
1,4-Dichlorobenzene-d4	890062	5.794	886042	5.805	100	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	3072004	7.445	3016495	7.455	102	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1740924	9.672	1691009	9.678	103	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	2870600	11.467	2793897	11.478	103	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	2544543	15.335	2028491	15.34	125	50 - 200	-0.0050	+/-0.50	
Perylene-d12	2215160	17.99	1383310	17.99	160	50 - 200	0.0000	+/-0.50	
GW0379 (1201139-03)			Lab File ID: 0113903.D			Analyzed: 01/28/12 14:33			
1,4-Dichlorobenzene-d4	852105	5.795	886042	5.805	96	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	2973326	7.446	3016495	7.455	99	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1720431	9.668	1691009	9.678	102	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	2839845	11.469	2793897	11.478	102	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	2500351	15.331	2028491	15.34	123	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2218510	17.991	1383310	17.99	160	50 - 200	0.0010	+/-0.50	
GW0380 (1201139-05)			Lab File ID: 0113905.D			Analyzed: 01/28/12 15:03			
1,4-Dichlorobenzene-d4	988446	5.797	886042	5.805	112	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	3466872	7.448	3016495	7.455	115	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1958099	9.67	1691009	9.678	116	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	3243924	11.47	2793897	11.478	116	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2837264	15.333	2028491	15.34	140	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2467267	17.993	1383310	17.99	178	50 - 200	0.0030	+/-0.50	
GW0396 (1201139-07)			Lab File ID: 0113907.D			Analyzed: 01/28/12 15:33			
1,4-Dichlorobenzene-d4	1045228	5.799	886042	5.805	118	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	3546703	7.45	3016495	7.455	118	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	2034844	9.672	1691009	9.678	120	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	3354547	11.473	2793897	11.478	120	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	2915952	15.335	2028491	15.34	144	50 - 200	-0.0050	+/-0.50	
Perylene-d12	2262471	17.995	1383310	17.99	164	50 - 200	0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03106	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0428 (1201139-09)			Lab File ID: 0113909.D			Analyzed: 01/28/12 16:04			
1,4-Dichlorobenzene-d4	1016963	5.797	886042	5.805	115	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	3490020	7.447	3016495	7.455	116	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1988302	9.67	1691009	9.678	118	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	3219255	11.47	2793897	11.478	115	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2786200	15.332	2028491	15.34	137	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2347017	17.993	1383310	17.99	170	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2B03312-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 01/31/12 14:41			
1,4-Dichlorobenzene-d4	918327	5.772	753433	5.979	122	50 - 200	-0.2070	+/-0.50	
Naphthalene-d8	3043173	7.428	2615702	7.624	116	50 - 200	-0.1960	+/-0.50	
Acenaphthene-d10	1658034	9.656	1489342	9.847	111	50 - 200	-0.1910	+/-0.50	
Phenanthrene-d10	2733814	11.456	2539246	11.652	108	50 - 200	-0.1960	+/-0.50	
Chrysene-d12	2277918	15.313	1974246	15.59	115	50 - 200	-0.2770	+/-0.50	
Perylene-d12	1853520	17.963	1512987	18.266	123	50 - 200	-0.3030	+/-0.50	
Blank (2A30004-BLK1)			Lab File ID: A30004B1.D			Analyzed: 01/31/12 15:12			
1,4-Dichlorobenzene-d4	966440	5.77	918327	5.772	105	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	3331821	7.421	3043173	7.428	109	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1835548	9.643	1658034	9.656	111	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	2952655	11.444	2733814	11.456	108	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	2571859	15.301	2277918	15.313	113	50 - 200	-0.0120	+/-0.50	
Perylene-d12	2423585	17.956	1853520	17.963	131	50 - 200	-0.0070	+/-0.50	
LCS (2A30004-BS1)			Lab File ID: A30004L1.D			Analyzed: 01/31/12 15:42			
1,4-Dichlorobenzene-d4	930114	5.775	918327	5.772	101	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	3228200	7.426	3043173	7.428	106	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1791836	9.648	1658034	9.656	108	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	3000862	11.448	2733814	11.456	110	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2556200	15.311	2277918	15.313	112	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1973013	17.961	1853520	17.963	106	50 - 200	-0.0020	+/-0.50	
LCS Dup (2A30004-BSD1)			Lab File ID: A30004L2.D			Analyzed: 01/31/12 16:13			
1,4-Dichlorobenzene-d4	977847	5.771	918327	5.772	106	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	3339215	7.427	3043173	7.428	110	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1851517	9.649	1658034	9.656	112	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	3002259	11.455	2733814	11.456	110	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2550297	15.312	2277918	15.313	112	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1987217	17.961	1853520	17.963	107	50 - 200	-0.0020	+/-0.50	
GW0430 (1201139-11RE1)			Lab File ID: 0113911R.D			Analyzed: 01/31/12 16:43			
1,4-Dichlorobenzene-d4	966439	5.767	918327	5.772	105	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	3297562	7.423	3043173	7.428	108	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1863447	9.645	1658034	9.656	112	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	2992828	11.446	2733814	11.456	109	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	2639059	15.303	2277918	15.313	116	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2397482	17.958	1853520	17.963	129	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0404 (1201151-01)			Lab File ID: 0115101.D			Analyzed: 01/31/12 17:14			
1,4-Dichlorobenzene-d4	904437	5.767	918327	5.772	98	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	3050253	7.418	3043173	7.428	100	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1607594	9.646	1658034	9.656	97	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	2415591	11.44	2733814	11.456	88	50 - 200	-0.0160	+/-0.50	
Chrysene-d12	2084207	15.298	2277918	15.313	91	50 - 200	-0.0150	+/-0.50	
Perylene-d12	2143036	17.953	1853520	17.963	116	50 - 200	-0.0100	+/-0.50	
GW0410 (1201151-03)			Lab File ID: 0115103.D			Analyzed: 01/31/12 17:44			
1,4-Dichlorobenzene-d4	1005573	5.767	918327	5.772	110	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	3383756	7.423	3043173	7.428	111	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1814954	9.646	1658034	9.656	109	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	2862673	11.446	2733814	11.456	105	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	2434507	15.303	2277918	15.313	107	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2097788	17.953	1853520	17.963	113	50 - 200	-0.0100	+/-0.50	
GW0429 (1201151-05)			Lab File ID: 0115105.D			Analyzed: 01/31/12 18:14			
1,4-Dichlorobenzene-d4	940575	5.771	918327	5.772	102	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	3063349	7.421	3043173	7.428	101	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1646587	9.644	1658034	9.656	99	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	2643095	11.444	2733814	11.456	97	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	2410262	15.301	2277918	15.313	106	50 - 200	-0.0120	+/-0.50	
Perylene-d12	2409881	17.956	1853520	17.963	130	50 - 200	-0.0070	+/-0.50	
GW0468 (1201193-05)			Lab File ID: 0119305.D			Analyzed: 01/31/12 19:45			
1,4-Dichlorobenzene-d4	800391	5.766	918327	5.772	87	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2800482	7.422	3043173	7.428	92	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1562157	9.644	1658034	9.656	94	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	2527104	11.444	2733814	11.456	92	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	2167442	15.301	2277918	15.313	95	50 - 200	-0.0120	+/-0.50	
Perylene-d12	1920228	17.951	1853520	17.963	104	50 - 200	-0.0120	+/-0.50	
GW0472 (1201193-07)			Lab File ID: 0119307.D			Analyzed: 01/31/12 20:15			
1,4-Dichlorobenzene-d4	725034	5.771	918327	5.772	79	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2366013	7.421	3043173	7.428	78	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1328207	9.644	1658034	9.656	80	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	2128272	11.444	2733814	11.456	78	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1981015	15.296	2277918	15.313	87	50 - 200	-0.0170	+/-0.50	
Perylene-d12	1963478	17.951	1853520	17.963	106	50 - 200	-0.0120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03312	Instrument:	MS-BNA3
		Calibration:	2018001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0475 (1201193-09)			Lab File ID: 0119309.D			Analyzed: 01/31/12 20:46			
1,4-Dichlorobenzene-d4	953142	5.772	918327	5.772	104	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	3264114	7.423	3043173	7.428	107	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1838285	9.645	1658034	9.656	111	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	2973604	11.446	2733814	11.456	109	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	2549603	15.303	2277918	15.313	112	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2081982	17.952	1853520	17.963	112	50 - 200	-0.0110	+/-0.50	
GW0493 (1201193-11)			Lab File ID: 0119311.D			Analyzed: 01/31/12 21:17			
1,4-Dichlorobenzene-d4	873284	5.767	918327	5.772	95	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2984436	7.418	3043173	7.428	98	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1641214	9.645	1658034	9.656	99	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	2616433	11.446	2733814	11.456	96	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	2297921	15.297	2277918	15.313	101	50 - 200	-0.0160	+/-0.50	
Perylene-d12	2212606	17.952	1853520	17.963	119	50 - 200	-0.0110	+/-0.50	
GW0466 (1201193-01)			Lab File ID: 0119301.D			Analyzed: 02/01/12 00:49			
1,4-Dichlorobenzene-d4	872840	5.775	918327	5.772	95	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	3159436	7.426	3043173	7.428	104	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1678505	9.648	1658034	9.656	101	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2721350	11.448	2733814	11.456	100	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2572238	15.3	2277918	15.313	113	50 - 200	-0.0130	+/-0.50	
Perylene-d12	2129001	17.95	1853520	17.963	115	50 - 200	-0.0130	+/-0.50	
GW0467 (1201193-03)			Lab File ID: 0119303.D			Analyzed: 02/01/12 01:19			
1,4-Dichlorobenzene-d4	868433	5.776	918327	5.772	95	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	3162006	7.432	3043173	7.428	104	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	1651931	9.649	1658034	9.656	100	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	2534306	11.444	2733814	11.456	93	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	2239859	15.301	2277918	15.313	98	50 - 200	-0.0120	+/-0.50	
Perylene-d12	1764100	17.951	1853520	17.963	95	50 - 200	-0.0120	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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	1.099645	10	1.08721	20	1.088531	40	1.08538	50	1.076802	60	1.066093
Acenaphthylene	5	1.687829	10	1.647954	20	1.658343	40	1.647007	50	1.62504	60	1.599837
Acetophenone	5	1.752095	10	1.720408	20	1.710806	40	1.67988	50	1.694411	60	1.667245
Aniline	5	1.951884	10	1.953217	20	1.980605	40	1.931454	50	1.973735	60	1.979408
Anthracene	5	1.093072	10	1.071359	20	1.074787	40	1.041736	50	1.042786	60	1.030433
Atrazine	5	0.2190275	10	0.2182218	20	0.2209032	40	0.2145689	50	0.2143194	60	0.2159646
Benzaldehyde	5		10		20		40		50		60	
Benzidine	5	0.4596811	10	0.482385	20	0.5252589	40	0.5095122	50	0.5058508	60	0.4514801
Benzo(a)anthracene	5	1.09225	10	1.084262	20	1.098197	40	1.092269	50	1.084065	60	1.101269
Benzo(a)pyrene	5	0.886153	10	0.963317	20	1.01147	40	1.034415	50	1.041445	60	1.049198
Benzo(b)fluoranthene	5	1.032243	10	0.9877985	20	1.035303	40	1.161608	50	1.115741	60	1.146269
Benzo(g,h,i)perylene	5	0.5963783	10	0.6614302	20	0.7195248	40	0.6732368	50	0.7076326	60	0.6689194
Benzoic acid	5	5.802461E-02	10	7.883856E-02	20	0.1324036	40	0.1578381	50	0.1778197	60	0.182594
Benzo(k)fluoranthene	5	1.135047	10	1.211179	20	1.19277	40	1.200635	50	1.187084	60	1.231869
Benzyl alcohol	5	0.7434721	10	0.7773001	20	0.7863348	40	0.7709163	50	0.7876434	60	0.7910692
1,1-Biphenyl	5	1.454972	10	1.418988	20	1.419115	40	1.417729	50	1.399993	60	1.38932
4-Bromophenyl-phenylether	5	0.2108277	10	0.2099414	20	0.2140885	40	0.2148079	50	0.2096901	60	0.2142373
Butylbenzylphthalate	5	0.5636734	10	0.5575714	20	0.5824496	40	0.6206631	50	0.5528926	60	0.605419
Caprolactam	5	9.447789E-02	10	9.279769E-02	20	9.915474E-02	40	0.1037033	50	0.105834	60	0.104064
Carbazole	5	0.9406306	10	0.8962811	20	0.8722007	40	0.8170244	50	0.8207895	60	0.7989994
4-Chloro-3-methylphenol	5	0.2617128	10	0.2691407	20	0.2793342	40	0.2855639	50	0.2922545	60	0.2932059
4-Chloroaniline	5	0.3845908	10	0.3895505	20	0.393817	40	0.397116	50	0.3988304	60	0.3988303
Bis(2-chloroethoxy)methane	5	0.4171126	10	0.4216569	20	0.4123614	40	0.4115103	50	0.4040945	60	0.407897
Bis(2-chloroethyl)ether	5	1.264741	10	1.283818	20	1.271025	40	1.233817	50	1.232407	60	1.226199
2,2'-Oxybis-1-chloropropane	5	1.465706	10	1.406555	20	1.381053	40	1.356219	50	1.358415	60	1.370043
2-Chloronaphthalene	5	1.113507	10	1.075205	20	1.075276	40	1.063572	50	1.054286	60	1.044039
2-Chlorophenol	5	1.221087	10	1.219068	20	1.219784	40	1.188589	50	1.208469	60	1.202068
4-Chlorophenyl phenyl ether	5	0.6482177	10	0.6157827	20	0.6225739	40	0.631092	50	0.6190542	60	0.6185451
Chrysene	5	1.010802	10	0.9977507	20	0.99748	40	0.9717849	50	0.9839071	60	0.9856004
Dibenz(a,h)anthracene	5	0.5046794	10	0.6144729	20	0.6878402	40	0.6685399	50	0.7209801	60	0.6943376
Dibenzofuran	5	1.504847	10	1.488855	20	1.472998	40	1.459343	50	1.43805	60	1.444506

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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	1.167208	10	1.153333	20	1.167617	40	1.135351	50	1.132935	60	1.111009
1,4-Dichlorobenzene	5	1.423978	10	1.396775	20	1.392666	40	1.364377	50	1.367876	60	1.352092
1,3-Dichlorobenzene	5	1.430799	10	1.402348	20	1.390985	40	1.345414	50	1.352205	60	1.338377
1,2-Dichlorobenzene	5	1.349651	10	1.310427	20	1.303944	40	1.271894	50	1.261842	60	1.264202
3,3'-Dichlorobenzidine	5	0.3184516	10	0.3084023	20	0.2634906	40	0.2273891	50	0.2617596	60	0.2440206
2,6-Dichlorophenol	5	0.2709395	10	0.2770937	20	0.277417	40	0.2770466	50	0.2755368	60	0.2798496
2,4-Dichlorophenol	5	0.2704021	10	0.2713937	20	0.279538	40	0.2836583	50	0.2833367	60	0.284339
Diethylphthalate	5	1.244705	10	1.23598	20	1.248526	40	1.219631	50	1.215761	60	1.216019
2,4-Dimethylphenol	5	0.3410857	10	0.3360695	20	0.3473828	40	0.346115	50	0.3465064	60	0.3487493
Dimethyl phthalate	5	1.270836	10	1.228934	20	1.245763	40	1.225395	50	1.205088	60	1.205332
4,6-Dinitro-2-methylphenol	5	8.478589E-02	10	0.1013206	20	0.1188932	40	0.1377699	50	0.1411528	60	0.140739
2,4-Dinitrophenol	5	0.0594931	10	8.228274E-02	20	0.1228974	40	0.163001	50	0.169713	60	0.1673009
2,4-Dinitrotoluene	5	0.3712137	10	0.355763	20	0.3793753	40	0.3798592	50	0.3866123	60	0.3761076
2,6-Dinitrotoluene	5	0.2938302	10	0.2802402	20	0.289903	40	0.290434	50	0.2883838	60	0.2858714
Di-n-octylphthalate	5	1.002014	10	1.150232	20	1.27187	40	1.482825	50	1.321974	60	1.529594
1,4-Dioxane	5	0.5469412	10	0.5279591	20	0.5408384	40	0.5114261	50	0.5263037	60	0.5250487
1,2-Diphenylhydrazine	5	0.7891546	10	0.7950555	20	0.7780679	40	0.7736842	50	0.7548722	60	0.7674821
Bis(2-ethylhexyl)phthalate	5	0.6647764	10	0.6652466	20	0.6992102	40	0.7496956	50	0.6979236	60	0.718862
Fluoranthene	5	1.154032	10	1.112036	20	1.138712	40	1.063741	50	1.125929	60	1.094165
Fluorene	5	1.269481	10	1.246899	20	1.248018	40	1.26397	50	1.280691	60	1.266309
2-Fluorobiphenyl	5	1.338642	10	1.312006	20	1.284487	40	1.29555	50	1.265758	60	1.260921
2-Fluorophenol	10	1.168705	20	1.178321	40	1.201522	80	1.156708	100	1.171908	120	1.168254
Hexachlorobenzene	5	0.2251647	10	0.2251625	20	0.2184576	40	0.2174657	50	0.2120833	60	0.2181688
Hexachlorobutadiene	5	0.2067122	10	0.2047139	20	0.202529	40	0.2018527	50	0.1971157	60	0.2014732
Hexachlorocyclopentadiene	5	0.1592609	10	0.1682215	20	0.1974354	40	0.2195155	50	0.21453	60	0.2201062
Hexachloroethane	5	0.5468977	10	0.5454322	20	0.5481373	40	0.5454637	50	0.5529386	60	0.5480913
Indeno(1,2,3-cd)pyrene	5	0.6951271	10	0.7668006	20	0.8605722	40	0.8294882	50	0.8864172	60	0.8477331
Isophorone	5	0.7176842	10	0.6858946	20	0.6948028	40	0.6877675	50	0.6841187	60	0.6855726
1-Methylnaphthalene	5	0.5490121	10	0.5383268	20	0.5293866	40	0.528097	50	0.5294106	60	0.524016
2-Methylnaphthalene	5	0.5592325	10	0.5484332	20	0.5430027	40	0.5357233	50	0.5333426	60	0.5292217
2-Methylphenol	5	1.090433	10	1.045623	20	1.064363	40	1.064088	50	1.08062	60	1.070237

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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	1.102359	10	1.086238	20	1.11617	40	1.106569	50	1.116185	60	1.112116
4-Methylphenol	5	1.102359	10	1.086238	20	1.11617	40	1.106569	50	1.116185	60	1.112116
3-Methylphenol/4-Methylphenol	5	1.102359	10	1.086238	20	1.11617	40	1.106569	50	1.116185	60	1.112116
Naphthalene	5	1.003354	10	0.9696888	20	0.9737203	40	0.9444167	50	0.9411343	60	0.9324952
4-Nitroaniline	5	0.2335456	10	0.2164311	20	0.2230828	40	0.2455072	50	0.2553614	60	0.2300693
3-Nitroaniline	5	0.2858486	10	0.2734493	20	0.2798206	40	0.2884962	50	0.2900325	60	0.2863389
2-Nitroaniline	5	0.3228904	10	0.3143443	20	0.3294999	40	0.3374943	50	0.3392579	60	0.3334089
Nitrobenzene	5	0.4153407	10	0.4085885	20	0.405041	40	0.4024612	50	0.399673	60	0.398301
Nitrobenzene-d5	5	0.403673	10	0.400511	20	0.4111902	40	0.4029672	50	0.4037066	60	0.4034839
4-Nitrophenol	5	0.1691384	10	0.1741816	20	0.2049761	40	0.2272051	50	0.2384552	60	0.2250346
2-Nitrophenol	5	0.1736607	10	0.1737003	20	0.1819372	40	0.1810132	50	0.183638	60	0.1835529
N-Nitrosodimethylamine	5	0.6573679	10	0.6454318	20	0.6691894	40	0.6418058	50	0.6719753	60	0.6627018
N-Nitrosodiphenylamine	5	0.6484735	10	0.6240569	20	0.6115685	40	0.6063833	50	0.6020161	60	0.6132258
N-Nitroso-di-n-propylamine	5	0.9242178	10	0.9400551	20	0.9545542	40	0.9306233	50	0.9383722	60	0.9335036
Pentachlorophenol	5	8.485009E-02	10	9.735697E-02	20	0.1223705	40	0.1368445	50	0.145114	60	0.1434159
Phenanthrene	5	1.088918	10	1.061706	20	1.052745	40	1.032614	50	1.019968	60	1.016345
Phenol	5	1.637383	10	1.630177	20	1.626973	40	1.601797	50	1.648957	60	1.637661
Phenol-d6	10	1.536621	20	1.509923	40	1.526047	80	1.501502	100	1.534705	120	1.517819
Pyrene	5	1.401748	10	1.324616	20	1.404005	40	1.630794	50	1.290998	60	1.502988
Pyridine	5	1.294943	10	1.275694	20	1.415272	40	1.378568	50	1.424467	60	1.372957
Terphenyl-d14	5	0.8384563	10	0.7978978	20	0.8617693	40	0.9845792	50	0.7964189	60	0.9312191
1,2,4,5-Tetrachlorobenzene	5	0.3231518	10	0.3277196	20	0.3224444	40	0.3246389	50	0.3233742	60	0.3208769
2,3,4,6-Tetrachlorophenol	5	0.2864746	10	0.2686735	20	0.2860182	40	0.3116734	50	0.3145157	60	0.3175651
2,4,6-Tribromophenol	10	8.831863E-02	20	9.188024E-02	40	9.349429E-02	80	9.906488E-02	100	9.806647E-02	120	0.100932
1,2,4-Trichlorobenzene	5	0.3531387	10	0.3541392	20	0.3559489	40	0.3424957	50	0.3398064	60	0.3417446
2,4,6-Trichlorophenol	5	0.3373467	10	0.3336926	20	0.3471189	40	0.3625883	50	0.3613885	60	0.358238
2,4,5-Trichlorophenol	5	0.3259354	10	0.3145791	20	0.3430925	40	0.3638883	50	0.3686169	60	0.367019

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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	1.078055	100	1.083924								
Acenaphthylene	80	1.590813	100	1.582627								
Acetophenone	80	1.681868	100	1.657357	5		10		20		40	
Aniline	80	2.03324	100	2.00732								
Anthracene	80	1.036163	100	1.015191								
Atrazine	80	0.2142557	100	0.2112284	5		10		20		40	
Benzaldehyde	80		100		5	1.077012	10	1.032452	20	0.9845757	40	0.9456845
Benzidine	80	0.4462506	100	0.5849585	5		10		20		40	
Benzo(a)anthracene	80	1.110007	100	1.102757								
Benzo(a)pyrene	80	1.04125	100	1.049426								
Benzo(b)fluoranthene	80	1.146769	100	1.165826								
Benzo(g,h,i)perylene	80	0.6224872	100	0.6501711								
Benzoic acid	80	0.220804	100	0.2353538								
Benzo(k)fluoranthene	80	1.23714	100	1.173931								
Benzyl alcohol	80	0.7993491	100	0.7933769								
1,1-Biphenyl	80	1.405387	100	1.387508	5		10		20		40	
4-Bromophenyl-phenylether	80	0.2125952	100	0.2169793								
Butylbenzylphthalate	80	0.5877274	100	0.580991								
Caprolactam	80	0.1047518	100	9.711532E-02	5		10		20		40	
Carbazole	80	0.8215712	100	0.824729								
4-Chloro-3-methylphenol	80	0.2986906	100	0.2938951								
4-Chloroaniline	80	0.4059744	100	0.4103709								
Bis(2-chloroethoxy)methane	80	0.4064922	100	0.4062653								
Bis(2-chloroethyl)ether	80	1.23445	100	1.227733								
2,2'-Oxybis-1-chloropropane	80	1.380348	100	1.368149								
2-Chloronaphthalene	80	1.052567	100	1.059085								
2-Chlorophenol	80	1.233226	100	1.212419								
4-Chlorophenyl phenyl ether	80	0.6307252	100	0.6353701								
Chrysene	80	0.9711069	100	0.9786123								
Dibenz(a,h)anthracene	80	0.6646052	100	0.6987982								
Dibenzofuran	80	1.435325	100	1.424575								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	1.096152	100	1.082825								
1,4-Dichlorobenzene	80	1.382524	100	1.35997								
1,3-Dichlorobenzene	80	1.363283	100	1.343243								
1,2-Dichlorobenzene	80	1.28419	100	1.260076								
3,3'-Dichlorobenzidine	80	0.2832025	100	0.3055477	5		10		20		40	
2,6-Dichlorophenol	80	0.2844504	100	0.2852744	5		10		20		40	
2,4-Dichlorophenol	80	0.2882578	100	0.2883934								
Diethylphthalate	80	1.193371	100	1.192968								
2,4-Dimethylphenol	80	0.3501133	100	0.3461517								
Dimethyl phthalate	80	1.193194	100	1.195316								
4,6-Dinitro-2-methylphenol	80	0.1465772	100	0.1506947								
2,4-Dinitrophenol	80	0.1883077	100	0.190848								
2,4-Dinitrotoluene	80	0.3779444	100	0.3746262								
2,6-Dinitrotoluene	80	0.2880802	100	0.2888647								
Di-n-octylphthalate	80	1.465036	100	1.451621								
1,4-Dioxane	80	0.5209355	100	0.5114246	5		10		20		40	
1,2-Diphenylhydrazine	80	0.8636062	100	0.8483731								
Bis(2-ethylhexyl)phthalate	80	0.7265424	100	0.736408								
Fluoranthene	80	1.09946	100	1.080438								
Fluorene	80	1.282276	100	1.277203								
2-Fluorobiphenyl	80	1.263418	100	1.245619								
2-Fluorophenol	160	1.187199	200	1.18212								
Hexachlorobenzene	80	0.2175343	100	0.2177087								
Hexachlorobutadiene	80	0.1995166	100	0.1990882								
Hexachlorocyclopentadiene	80	0.2157778	100	0.2173762								
Hexachloroethane	80	0.5646521	100	0.5532471								
Indeno(1,2,3-cd)pyrene	80	0.8125731	100	0.8544885								
Isophorone	80	0.6874604	100	0.6873495								
1-Methylnaphthalene	80	0.5251143	100	0.5265685								
2-Methylnaphthalene	80	0.5425649	100	0.5363165								
2-Methylphenol	80	1.089352	100	1.071798								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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	1.140437	100	1.137437								
4-Methylphenol	80	1.140437	100	1.137437								
3-Methylphenol/4-Methylphenol	80	1.140437	100	1.137437								
Naphthalene	80	0.9348402	100	0.9108075								
4-Nitroaniline	80	0.2507413	100	0.2521367								
3-Nitroaniline	80	0.2974626	100	0.298195								
2-Nitroaniline	80	0.339035	100	0.3380732								
Nitrobenzene	80	0.398528	100	0.3957493								
Nitrobenzene-d5	80	0.4068501	100	0.4042378								
4-Nitrophenol	80	0.2432054	100	0.2511138								
2-Nitrophenol	80	0.1870452	100	0.1869963								
N-Nitrosodimethylamine	80	0.6723763	100	0.660402								
N-Nitrosodiphenylamine	80	0.6122317	100	0.6135862								
N-Nitroso-di-n-propylamine	80	0.9547	100	0.957528								
Pentachlorophenol	80	0.1520449	100	0.1518006								
Phenanthrene	80	1.013443	100	1.016072								
Phenol	80	1.691432	100	1.683341								
Phenol-d6	160	1.562313	200	1.553038								
Pyrene	80	1.428171	100	1.447726								
Pyridine	80	1.413475	100	1.389169								
Terphenyl-d14	80	0.8887512	100	0.9050433								
1,2,4,5-Tetrachlorobenzene	80	0.3207592	100	0.3204204	5		10		20		40	
2,3,4,6-Tetrachlorophenol	80	0.3239844	100	0.3274504	5		10		20		40	
2,4,6-Tribromophenol	160	0.1042032	200	0.1055216								
1,2,4-Trichlorobenzene	80	0.3431826	100	0.3400066								
2,4,6-Trichlorophenol	80	0.3629532	100	0.3634456								
2,4,5-Trichlorophenol	80	0.3775557	100	0.3760906								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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		60		80							
Aniline												
Anthracene												
Atrazine	50		60		80							
Benzaldehyde	50	0.8692097	60	0.7985797	80	0.7391587						
Benzidine	50		60		80							
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		60		80							
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50		60		80							
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

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		60		80							
2,6-Dichlorophenol	50		60		80							
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		60		80							
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2018001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	1/10/12 9:58	1/10/12 17:07

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		60		80							
2,3,4,6-Tetrachlorophenol	50		60		80							
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.083205	0.9101484	9.885	7.623863E-02			CCC (30)	
Acenaphthylene	1.629931	2.256984	9.653375	0.0660306			15	
Acetophenone	1.695509	1.830379	6.535375	0.1316771			15	
Aniline	1.976358	1.642797	5.615125	9.922488E-02			15	
Anthracene	1.050691	2.499634	11.72812	6.321158E-02			15	
Atrazine	0.2160612	1.451031	11.358	0.1062482			15	
Benzaldehyde	0.9209532	13.4564	5.429429	1.760792E-02			15	
Benzidine	0.4956721	9.342119	13.42875	4.201085E-02			15	
Benzo(a)anthracene	1.095634	0.8319924	15.5455	6.207274E-02			15	
Benzo(a)pyrene	1.009584	5.69871	18.152	6.627616E-02			CCC (30)	
Benzo(b)fluoranthene	1.098945	6.347564	17.561	6.653683E-02			15	
Benzo(g,h,i)perylene	0.6624725	6.137325	20.73612	8.018091E-02			15	
Benzoic acid	0.1554595	40.53073	7.418875	0.6631498		0.9976823	0.99	
Benzo(k)fluoranthene	1.196207	2.740555	17.60712	8.413241E-02			15	
Benzyl alcohol	0.7811827	2.262811	6.190875	0.1442823			15	
1,1-Biphenyl	1.411627	1.533431	9.117625	6.499553E-02			15	
4-Bromophenyl-phenylether	0.2128959	1.216142	11.09612	4.948606E-02			15	
Butylbenzylphthalate	0.5814234	4.035936	14.65875	4.335782E-02			15	
Caprolactam	0.1002373	5.027883	8.19075	0.6254578			15	
Carbazole	0.8490283	5.775201	11.9395	5.527529E-02			15	
4-Chloro-3-methylphenol	0.2842247	4.621817	8.387125	0.1394119			CCC (30)	
4-Chloroaniline	0.397385	2.093473	7.757875	0.1078696			15	
Bis(2-chloroethoxy)methane	0.4109238	1.463158	7.351875	0.1134847			15	
Bis(2-chloroethyl)ether	1.246774	1.817749	5.692	0.1533523			15	
2,2'-Oxybis-1-chloropropane	1.385811	2.594986	6.385	7.462439E-02			15	
2-Chloronaphthalene	1.067192	2.025277	9.12825	6.716463E-02			15	
2-Chlorophenol	1.213089	1.120603	5.748875	9.234878E-02			15	
4-Chlorophenyl phenyl ether	0.6276701	1.732032	10.5025	5.348086E-02			15	
Chrysene	0.9871305	1.410904	15.629	6.974049E-02			15	
Dibenz(a,h)anthracene	0.6567817	10.51516	20.242	7.278216E-02			15	
Dibenzofuran	1.458562	1.936169	10.07663	0.0658387			15	
Di-n-butylphthalate	1.130804	2.817955	12.42637	4.650415E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.380032	1.722089	5.995	7.843345E-02			CCC (30)	
1,3-Dichlorobenzene	1.370832	2.44442	5.926375	7.222639E-02			15	
1,2-Dichlorobenzene	1.288278	2.43025	6.23625	6.631569E-02			15	
3,3'-Dichlorobenzidine	0.276533	11.85234	15.5615	4.815125E-02			15	
2,6-Dichlorophenol	0.278451	1.686141	7.76075	7.834406E-02			15	
2,4-Dichlorophenol	0.2811649	2.469716	7.465125	9.891327E-02			CCC (30)	
Diethylphthalate	1.22087	1.736797	10.43975	7.832606E-02			15	
2,4-Dimethylphenol	0.3452717	1.319043	7.23125	0.1243115			15	
Dimethyl phthalate	1.221232	2.212437	9.57775	0.1115088			15	
4,6-Dinitro-2-methylphenol	0.1277417	18.60187	10.64225	0.1383784	0.9990027		0.995	
2,4-Dinitrophenol	0.1429805	34.57842	9.954375	9.186983E-02	0.9961831		SPCC (0.05)	
2,4-Dinitrotoluene	0.3751877	2.40886	10.14338	0.1067381			15	
2,6-Dinitrotoluene	0.2882009	1.368334	9.6645	9.842674E-02			15	
Di-n-octylphthalate	1.334396	13.85888	16.90712	3.067726E-02			CCC (30)	
1,4-Dioxane	0.5263597	2.395623	2.67425	7.452113E-02			15	
1,2-Diphenylhydrazine	0.796287	4.906458	10.69475	5.974852E-02			15	
Bis(2-ethylhexyl)phthalate	0.7073331	4.431781	15.74125	2.670977E-02			15	
Fluoranthene	1.108564	2.723364	13.219	6.082186E-02			CCC (30)	
Fluorene	1.266856	1.077745	10.5025	6.123319E-02			15	
2-Fluorobiphenyl	1.2833	2.403908	9.011	6.987202E-02			15	
2-Fluorophenol	1.176842	1.165142	4.420625	9.010437E-02			15	
Hexachlorobenzene	0.2189682	1.975404	11.278	0.0481927			15	
Hexachlorobutadiene	0.2016252	1.540461	7.87825	3.346617E-02			CCC (30)	
Hexachlorocyclopentadiene	0.2015279	12.16118	8.805875	2.766948E-02			SPCC (0.05)	
Hexachloroethane	0.5506075	1.16707	6.625375	2.549683E-02			15	
Indeno(1,2,3-cd)pyrene	0.81915	7.522365	20.20325	6.592576E-02			15	
Isophorone	0.6913313	1.60776	7.051625	0.165534			15	
1-Methylnaphthalene	0.5312415	1.581805	8.655625	5.248298E-02			15	
2-Methylnaphthalene	0.5409797	1.76924	8.51725	5.089314E-02			15	
2-Methylphenol	1.072064	1.381287	6.36375	0.1277759			15	
3-Methylphenol	1.114689	1.597239	6.558	0.1649778			15	
4-Methylphenol	1.114689	1.597239	6.558	0.1649778			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2018001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	1/10/12 9:58 1/10/12 17:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.114689	1.597239	6.558	0.1649778			15	
Naphthalene	0.9513071	3.068643	7.645875	6.154678E-02			15	
4-Nitroaniline	0.2383594	6.119632	10.60075	0.1760939			15	
3-Nitroaniline	0.2874555	2.885201	9.834875	0.1206599			15	
2-Nitroaniline	0.3317505	2.724079	9.31325	7.914378E-02			15	
Nitrobenzene	0.4029603	1.607475	6.75775	0.1194354			15	
Nitrobenzene-d5	0.4045775	0.7866894	6.732375	0.1246521			15	
4-Nitrophenol	0.2166638	14.32948	10.04925	0.1277065			SPCC (0.05)	
2-Nitrophenol	0.181443	2.889721	7.16575	5.623153E-02			CCC (30)	
N-Nitrosodimethylamine	0.6601563	1.75391	3.01225	0.1120891			15	
N-Nitrosodiphenylamine	0.6164427	2.337373	10.6675	0.1007832			CCC (30)	
N-Nitroso-di-n-propylamine	0.9416943	1.327576	6.574125	0.1937295			SPCC (0.05)	
Pentachlorophenol	0.1292247	19.78123	11.50287	4.041963E-02	0.9989765		CCC (30)	
Phenanthrene	1.037726	2.646208	11.67575	5.644054E-02			15	
Phenol	1.644715	1.804252	5.605875	0.2338798			CCC (30)	
Phenol-d6	1.530246	1.357215	5.591125	0.2424652			15	
Pyrene	1.428881	7.380675	13.54688	6.656789E-02			15	
Pyridine	1.370568	4.079243	3.004875	0.1495075			15	
Terphenyl-d14	0.8755169	7.463366	13.79912	0.0428892			15	
1,2,4,5-Tetrachlorobenzene	0.3229232	0.7545002	8.783875	5.471036E-02			15	
2,3,4,6-Tetrachlorophenol	0.3045444	6.997387	10.29087	5.812619E-02			15	
2,4,6-Tribromophenol	9.768516E-02	6.184412	10.82975	7.484118E-02			15	
1,2,4-Trichlorobenzene	0.3463078	1.976746	7.571	6.098557E-02			15	
2,4,6-Trichlorophenol	0.3533465	3.465044	8.917375	4.929742E-02			CCC (30)	
2,4,5-Trichlorophenol	0.3545972	6.72577	8.96675	9.599952E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A01401	Injection Date:	01/11/12
Lab Sample ID:	2A01401-ICV1	Injection Time:	09:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	54.02	1.083205	1.170369		8.0	20
Acenaphthylene	A	50.00	54.09	1.629931	1.763323		8.2	20
Acetophenone	A	50.00	51.81	1.695509	1.756828		3.6	20
Anthracene	A	50.00	53.63	1.050691	1.127013		7.3	20
Atrazine	A	50.00	50.85	0.2160612	0.2197524		1.7	20
Benzo(a)anthracene	A	50.00	55.02	1.095634	1.205595		10.0	20
Benzo(a)pyrene	A	50.00	55.55	1.009584	1.121572		11.1	20
Benzo(b)fluoranthene	A	50.00	55.71	1.098945	1.224545		11.4	20
Benzo(g,h,i)perylene	A	50.00	59.33	0.6624725	0.7861028		18.7	20
Benzoic acid	Q	50.00	54.61	0.1554595	0.1982805		9.2	20
Benzo(k)fluoranthene	A	50.00	53.86	1.196207	1.288638		7.7	20
1,1-Biphenyl	A	50.00	52.94	1.411627	1.494502		5.9	20
4-Bromophenyl-phenylether	A	50.00	54.87	0.2128959	0.2336365		9.7	20
Butylbenzylphthalate	A	50.00	57.40	0.5814234	0.6674546		14.8	20
Caprolactam	A	50.00	53.36	0.1002373	0.1069689		6.7	20
4-Chloro-3-methylphenol	A	50.00	53.83	0.2842247	0.3060243		7.7	20
4-Chloroaniline	A	50.00	49.95	0.397385	0.3969491		-0.1	20
Bis(2-chloroethoxy)methane	A	50.00	54.30	0.4109238	0.4462953		8.6	20
Bis(2-chloroethyl)ether	A	50.00	53.39	1.246774	1.331418		6.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.14	1.385811	1.472958		6.3	20
2-Chloronaphthalene	A	50.00	53.22	1.067192	1.135871		6.4	20
2-Chlorophenol	A	50.00	53.12	1.213089	1.288772		6.2	20
4-Chlorophenyl phenyl ether	A	50.00	52.68	0.6276701	0.6613635		5.4	20
Chrysene	A	50.00	57.39	0.9871305	1.133101		14.8	20
Dibenzofuran	A	50.00	54.33	1.458562	1.584835		8.7	20
Di-n-butylphthalate	A	50.00	51.99	1.130804	1.17588		4.0	20
2,4-Dichlorophenol	A	50.00	53.82	0.2811649	0.3026628		7.6	20
Diethylphthalate	A	50.00	52.66	1.22087	1.285853		5.3	20
2,4-Dimethylphenol	A	50.00	54.12	0.3452717	0.3737187		8.2	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A01401	Injection Date:	01/11/12
Lab Sample ID:	2A01401-ICV1	Injection Time:	09:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Dimethyl phthalate	A	50.00	51.60	1.221232	1.260415		3.2	20
4,6-Dinitro-2-methylphenol	L	50.00	54.25	0.1277417	0.1557027		8.5	20
2,4-Dinitrophenol	L	50.00	49.00	0.1429805	0.1704763	0.05	-2.0	20
2,4-Dinitrotoluene	A	50.00	54.66	0.3751877	0.4101718		9.3	20
2,6-Dinitrotoluene	A	50.00	53.95	0.2882009	0.3109473		7.9	20
Di-n-octylphthalate	A	50.00	58.07	1.334396	1.549779		16.1	20
1,2-Diphenylhydrazine	A	50.00	53.39	0.796287	0.8502481		6.8	20
Bis(2-ethylhexyl)phthalate	A	50.00	57.04	0.7073331	0.8069334		14.1	20
Fluoranthene	A	50.00	52.12	1.108564	1.155484		4.2	20
Fluorene	A	50.00	53.56	1.266856	1.356993		7.1	20
Hexachlorobenzene	A	50.00	56.58	0.2189682	0.2477809		13.2	20
Hexachlorobutadiene	A	50.00	57.70	0.2016252	0.2326878		15.4	20
Hexachlorocyclopentadiene	A	50.00	52.39	0.2015279	0.2111448	0.05	4.8	20
Hexachloroethane	A	50.00	53.12	0.5506075	0.5849662		6.2	20
Indeno(1,2,3-cd)pyrene	A	50.00	59.73	0.81915	0.9784756		19.5	20
Isophorone	A	50.00	52.35	0.6913313	0.7237842		4.7	20
1-Methylnaphthalene	A	50.00	52.49	0.5312415	0.5577491		5.0	20
2-Methylnaphthalene	A	50.00	52.61	0.5409797	0.5692651		5.2	20
2-Methylphenol	A	50.00	52.79	1.072064	1.131914		5.6	20
3-Methylphenol/4-Methylphenol	A	50.00	52.20	1.114689	1.163667		4.4	20
Naphthalene	A	50.00	59.12	0.9513071	1.124916		18.2	20
4-Nitroaniline	A	50.00	41.77	0.2383594	0.1991106		-16.5	20
2-Nitroaniline	A	50.00	55.32	0.3317505	0.3670605		10.6	20
Nitrobenzene	A	50.00	52.76	0.4029603	0.4252031		5.5	20
4-Nitrophenol	A	50.00	54.24	0.2166638	0.2350351	0.05	8.5	20
2-Nitrophenol	A	50.00	54.19	0.181443	0.1966465		8.4	20
N-Nitrosodiphenylamine	A	50.00	52.97	0.6164427	0.6531074		5.9	20
N-Nitroso-di-n-propylamine	A	50.00	52.66	0.9416943	0.9918589	0.05	5.3	20
Phenanthrene	A	50.00	54.83	1.037726	1.137873		9.7	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A01401	Injection Date:	01/11/12
Lab Sample ID:	2A01401-ICV1	Injection Time:	09:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Phenol	A	50.00	52.55	1.644715	1.728599		5.1	20
Pyrene	A	50.00	54.83	1.428881	1.566982		9.7	20
2,4,6-Trichlorophenol	A	50.00	54.90	0.3533465	0.3879634		9.8	20
2,4,5-Trichlorophenol	A	50.00	56.25	0.3545972	0.3989087		12.5	20
2-Fluorobiphenyl	A	50.00	52.04	1.2833	1.335615		4.1	20
2-Fluorophenol	A	100.0	110.1	1.176842	1.296244		10.1	20
Nitrobenzene-d5	A	50.00	52.70	0.4045775	0.426449		5.4	20
Phenol-d6	A	100.0	99.38	1.530246	1.520828		-0.6	20
Terphenyl-d14	A	50.00	54.02	0.8755169	0.9459535		8.0	20
2,4,6-Tribromophenol	A	100.0	105.1	9.768516E-02	0.1026211		5.1	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	01/10/12 00:00
Sequence:	2A01401	Injection Date:	01/11/12
Lab Sample ID:	2A01401-ICV2	Injection Time:	12:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Carbazole	A	50.00	41.59	0.8490283	0.7062976		-16.8	20
Dibenz(a,h)anthracene	A	50.00	45.09	0.6567817	0.5922646		-9.8	20
3-Nitroaniline	A	50.00	41.03	0.2874555	0.2358981		-17.9	20
Pentachlorophenol	L	50.00	45.95	0.1292247	0.1323194		-8.1	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	01/10/12 00:00
Sequence:	2A01401	Injection Date:	01/11/12
Lab Sample ID:	2A01401-ICV3	Injection Time:	12:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzidine	A	50.00	58.22	0.4956721	0.5771846		16.4	20
3,3'-Dichlorobenzidine	A	50.00	53.14	0.276533	0.2939052		6.3	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	01/10/12 00:00
Sequence:	2A01401	Injection Date:	01/11/12
Lab Sample ID:	2A01401-ICV4	Injection Time:	13:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	57.34	0.9209532	1.056099		14.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A02801	Injection Date:	01/27/12
Lab Sample ID:	2A02801-CCV1	Injection Time:	12:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	53.06	1.083205	1.149505		6.1	20
Acenaphthylene	A	50.00	52.89	1.629931	1.724104		5.8	20
Acetophenone	A	50.00	54.13	1.695509	1.83559		8.3	20
Anthracene	A	50.00	54.44	1.050691	1.14409		8.9	20
Atrazine	A	50.00	37.72	0.2160612	0.163011		-24.6	20 *
Benzaldehyde	A	50.00	38.19	0.9209532	0.7033812		-23.6	20 *
Benzidine	A	50.00	55.50	0.4956721	0.5502274		11.0	20
Benzo(a)anthracene	A	50.00	55.72	1.095634	1.22099		11.4	20
Benzo(a)pyrene	A	50.00	57.52	1.009584	1.161495		15.0	20
Benzo(b)fluoranthene	A	50.00	64.12	1.098945	1.409275		28.2	20 *
Benzo(g,h,i)perylene	A	50.00	46.55	0.6624725	0.6167531		-6.9	20
Benzoic acid	Q	50.00	57.37	0.1554595	0.2114026		14.7	20
Benzo(k)fluoranthene	A	50.00	60.91	1.196207	1.457132		21.8	20 *
1,1-Biphenyl	A	50.00	52.76	1.411627	1.489681		5.5	20
4-Bromophenyl-phenylether	A	50.00	55.84	0.2128959	0.2377459		11.7	20
Butylbenzylphthalate	A	50.00	54.45	0.5814234	0.6331939		8.9	20
Caprolactam	A	50.00	56.03	0.1002373	0.1123195		12.1	20
Carbazole	A	50.00	53.33	0.8490283	0.9055531		6.7	20
4-Chloro-3-methylphenol	A	50.00	57.46	0.2842247	0.3266243		14.9	20
4-Chloroaniline	A	50.00	52.14	0.397385	0.4143675		4.3	20
Bis(2-chloroethoxy)methane	A	50.00	53.44	0.4109238	0.439185		6.9	20
Bis(2-chloroethyl)ether	A	50.00	53.35	1.246774	1.330267		6.7	20
2,2'-Oxybis-1-chloropropane	A	50.00	44.48	1.385811	1.232982		-11.0	20
2-Chloronaphthalene	A	50.00	54.88	1.067192	1.171431		9.8	20
2-Chlorophenol	A	50.00	55.24	1.213089	1.340255		10.5	20
4-Chlorophenyl phenyl ether	A	50.00	56.16	0.6276701	0.7049896		12.3	20
Chrysene	A	50.00	56.35	0.9871305	1.112538		12.7	20
Dibenz(a,h)anthracene	A	50.00	51.35	0.6567817	0.6745225		2.7	20
Dibenzofuran	A	50.00	53.82	1.458562	1.569975		7.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A02801	Injection Date:	01/27/12
Lab Sample ID:	2A02801-CCV1	Injection Time:	12:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	56.73	1.130804	1.282967		13.5	20
3,3'-Dichlorobenzidine	A	50.00	61.38	0.276533	0.3395001		22.8	20 *
2,4-Dichlorophenol	A	50.00	56.89	0.2811649	0.319921		13.8	20
Diethylphthalate	A	50.00	54.34	1.22087	1.326788		8.7	20
2,4-Dimethylphenol	A	50.00	56.40	0.3452717	0.3894932		12.8	20
Dimethyl phthalate	A	50.00	53.03	1.221232	1.295174		6.1	20
4,6-Dinitro-2-methylphenol	L	50.00	53.03	0.1277417	0.1519138		6.1	20
2,4-Dinitrophenol	L	50.00	47.72	0.1429805	0.1653722	0.05	-4.6	20
2,4-Dinitrotoluene	A	50.00	54.64	0.3751877	0.4099707		9.3	20
2,6-Dinitrotoluene	A	50.00	52.90	0.2882009	0.3049074		5.8	20
Di-n-octylphthalate	A	50.00	70.97	1.334396	1.893994		41.9	20 *
1,2-Diphenylhydrazine	A	50.00	56.58	0.796287	0.9011158		13.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	58.67	0.7073331	0.8299873		17.3	20
Fluoranthene	A	50.00	57.68	1.108564	1.278892		15.4	20
Fluorene	A	50.00	55.64	1.266856	1.409764		11.3	20
Hexachlorobenzene	A	50.00	56.70	0.2189682	0.2483335		13.4	20
Hexachlorobutadiene	A	50.00	55.08	0.2016252	0.2221025		10.2	20
Hexachlorocyclopentadiene	A	50.00	70.97	0.2015279	0.2860529	0.05	41.9	20 *
Hexachloroethane	A	50.00	55.89	0.5506075	0.6154547		11.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	49.89	0.81915	0.8173196		-0.2	20
Isophorone	A	50.00	53.29	0.6913313	0.7368304		6.6	20
1-Methylnaphthalene	A	50.00	54.54	0.5312415	0.5795123		9.1	20
2-Methylnaphthalene	A	50.00	54.64	0.5409797	0.591238		9.3	20
2-Methylphenol	A	50.00	55.70	1.072064	1.194219		11.4	20
3-Methylphenol/4-Methylphenol	A	50.00	55.45	1.114689	1.236232		10.9	20
Naphthalene	A	50.00	53.87	0.9513071	1.024931		7.7	20
4-Nitroaniline	A	50.00	49.13	0.2383594	0.2342193		-1.7	20
3-Nitroaniline	A	50.00	54.58	0.2874555	0.3137843		9.2	20
2-Nitroaniline	A	50.00	55.24	0.3317505	0.3665415		10.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A02801	Injection Date:	01/27/12
Lab Sample ID:	2A02801-CCV1	Injection Time:	12:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	53.13	0.4029603	0.4281718		6.3	20
4-Nitrophenol	A	50.00	58.87	0.2166638	0.2550947	0.05	17.7	20
2-Nitrophenol	A	50.00	56.49	0.181443	0.2050073		13.0	20
N-Nitrosodiphenylamine	A	50.00	55.64	0.6164427	0.686036		11.3	20
N-Nitroso-di-n-propylamine	A	50.00	54.06	0.9416943	1.018231	0.05	8.1	20
Pentachlorophenol	L	50.00	49.99	0.1292247	0.1450589		-0.02	20
Phenanthrene	A	50.00	54.22	1.037726	1.125399		8.4	20
Phenol	A	50.00	55.83	1.644715	1.836441		11.7	20
Pyrene	A	50.00	50.42	1.428881	1.440815		0.8	20
2,4,6-Trichlorophenol	A	50.00	55.07	0.3533465	0.3891875		10.1	20
2,4,5-Trichlorophenol	A	50.00	59.23	0.3545972	0.4200292		18.5	20
2-Fluorobiphenyl	A	50.00	52.75	1.2833	1.353811		5.5	20
2-Fluorophenol	A	100.0	105.7	1.176842	1.243582		5.7	20
Nitrobenzene-d5	A	50.00	54.02	0.4045775	0.4371255		8.0	20
Phenol-d6	A	100.0	107.7	1.530246	1.648587		7.7	20
Terphenyl-d14	A	50.00	52.03	0.8755169	0.911112		4.1	20
2,4,6-Tribromophenol	A	100.0	111.8	9.768516E-02	0.1091759		11.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A03106	Injection Date:	01/28/12
Lab Sample ID:	2A03106-CCV1	Injection Time:	10:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	53.47	1.083205	1.15832		6.9	20	
Acenaphthylene	A	50.00	52.85	1.629931	1.722769		5.7	20	
Acetophenone	A	50.00	55.09	1.695509	1.86825		10.2	20	
Anthracene	A	50.00	53.24	1.050691	1.118876		6.5	20	
Atrazine	A	50.00	55.18	0.2160612	0.2384326		10.4	20	
Benzaldehyde	A	50.00	56.48	0.9209532	1.040364		13.0	20	
Benzidine	A	50.00	72.92	0.4956721	0.7229275		45.8	20	*
Benzo(a)anthracene	A	50.00	57.21	1.095634	1.253541		14.4	20	
Benzo(a)pyrene	A	50.00	58.24	1.009584	1.17588		16.5	20	
Benzo(b)fluoranthene	A	50.00	63.75	1.098945	1.401147		27.5	20	*
Benzo(g,h,i)perylene	A	50.00	51.22	0.6624725	0.678599		2.4	20	
Benzoic acid	Q	50.00	56.56	0.1554595	0.2075275		13.1	20	
Benzo(k)fluoranthene	A	50.00	61.12	1.196207	1.462327		22.2	20	*
1,1-Biphenyl	A	50.00	55.78	1.411627	1.574886		11.6	20	
4-Bromophenyl-phenylether	A	50.00	56.23	0.2128959	0.2394293		12.5	20	
Butylbenzylphthalate	A	50.00	60.20	0.5814234	0.7000368		20.4	20	*
Caprolactam	A	50.00	55.84	0.1002373	0.1119548		11.7	20	
Carbazole	A	50.00	50.37	0.8490283	0.8552487		0.7	20	
4-Chloro-3-methylphenol	A	50.00	56.37	0.2842247	0.3204379		12.7	20	
4-Chloroaniline	A	50.00	53.38	0.397385	0.4242123		6.8	20	
Bis(2-chloroethoxy)methane	A	50.00	53.54	0.4109238	0.4399989		7.1	20	
Bis(2-chloroethyl)ether	A	50.00	53.05	1.246774	1.322863		6.1	20	
2,2'-Oxybis-1-chloropropane	A	50.00	43.98	1.385811	1.218999		-12.0	20	
2-Chloronaphthalene	A	50.00	55.71	1.067192	1.189149		11.4	20	
2-Chlorophenol	A	50.00	54.94	1.213089	1.3329		9.9	20	
4-Chlorophenyl phenyl ether	A	50.00	55.56	0.6276701	0.697479		11.1	20	
Chrysene	A	50.00	57.76	0.9871305	1.140248		15.5	20	
Dibenz(a,h)anthracene	A	50.00	56.42	0.6567817	0.7411759		12.8	20	
Dibenzofuran	A	50.00	53.53	1.458562	1.56163		7.1	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A03106	Injection Date:	01/28/12
Lab Sample ID:	2A03106-CCV1	Injection Time:	10:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	55.40	1.130804	1.252907		10.8	20
3,3'-Dichlorobenzidine	A	50.00	59.66	0.276533	0.3299323		19.3	20
2,4-Dichlorophenol	A	50.00	55.95	0.2811649	0.3146404		11.9	20
Diethylphthalate	A	50.00	53.75	1.22087	1.312374		7.5	20
2,4-Dimethylphenol	A	50.00	55.23	0.3452717	0.3813788		10.5	20
Dimethyl phthalate	A	50.00	53.80	1.221232	1.314117		7.6	20
4,6-Dinitro-2-methylphenol	L	50.00	52.20	0.1277417	0.1493604		4.4	20
2,4-Dinitrophenol	L	50.00	47.43	0.1429805	0.1641685	0.05	-5.1	20
2,4-Dinitrotoluene	A	50.00	54.78	0.3751877	0.4110412		9.6	20
2,6-Dinitrotoluene	A	50.00	54.22	0.2882009	0.312523		8.4	20
Di-n-octylphthalate	A	50.00	76.20	1.334396	2.033764		52.4	20 *
1,2-Diphenylhydrazine	A	50.00	56.96	0.796287	0.9072017		13.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.17	0.7073331	0.9078346		28.3	20 *
Fluoranthene	A	50.00	54.43	1.108564	1.20677		8.9	20
Fluorene	A	50.00	55.17	1.266856	1.397818		10.3	20
Hexachlorobenzene	A	50.00	57.34	0.2189682	0.2511322		14.7	20
Hexachlorobutadiene	A	50.00	55.90	0.2016252	0.2254206		11.8	20
Hexachlorocyclopentadiene	A	50.00	70.55	0.2015279	0.2843689	0.05	41.1	20 *
Hexachloroethane	A	50.00	56.02	0.5506075	0.6169279		12.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.96	0.81915	0.9003477		9.9	20
Isophorone	A	50.00	52.48	0.6913313	0.7256499		5.0	20
1-Methylnaphthalene	A	50.00	53.83	0.5312415	0.5719335		7.7	20
2-Methylnaphthalene	A	50.00	53.56	0.5409797	0.5795569		7.1	20
2-Methylphenol	A	50.00	54.61	1.072064	1.170893		9.2	20
3-Methylphenol/4-Methylphenol	A	50.00	54.51	1.114689	1.215174		9.0	20
Naphthalene	A	50.00	53.10	0.9513071	1.010274		6.2	20
4-Nitroaniline	A	50.00	48.66	0.2383594	0.2319661		-2.7	20
3-Nitroaniline	A	50.00	54.78	0.2874555	0.3149585		9.6	20
2-Nitroaniline	A	50.00	54.52	0.3317505	0.3617731		9.0	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2A03106	Injection Date:	01/28/12
Lab Sample ID:	2A03106-CCV1	Injection Time:	10:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	52.83	0.4029603	0.4257962		5.7	20
4-Nitrophenol	A	50.00	53.34	0.2166638	0.2311595	0.05	6.7	20
2-Nitrophenol	A	50.00	56.07	0.181443	0.2034783		12.1	20
N-Nitrosodiphenylamine	A	50.00	55.53	0.6164427	0.6846689		11.1	20
N-Nitroso-di-n-propylamine	A	50.00	52.83	0.9416943	0.9949704	0.05	5.7	20
Pentachlorophenol	L	50.00	51.90	0.1292247	0.1510547		3.8	20
Phenanthrene	A	50.00	53.64	1.037726	1.113215		7.3	20
Phenol	A	50.00	55.45	1.644715	1.824011		10.9	20
Pyrene	A	50.00	58.69	1.428881	1.677339		17.4	20
2,4,6-Trichlorophenol	A	50.00	55.72	0.3533465	0.393746		11.4	20
2,4,5-Trichlorophenol	A	50.00	60.82	0.3545972	0.4313288		21.6	20 *
2-Fluorobiphenyl	A	50.00	53.68	1.2833	1.377628		7.4	20
2-Fluorophenol	A	100.0	106.0	1.176842	1.247269		6.0	20
Nitrobenzene-d5	A	50.00	52.80	0.4045775	0.4272739		5.6	20
Phenol-d6	A	100.0	105.8	1.530246	1.618493		5.8	20
Terphenyl-d14	A	50.00	60.74	0.8755169	1.063586		21.5	20 *
2,4,6-Tribromophenol	A	100.0	113.6	9.768516E-02	0.1109982		13.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2B03312	Injection Date:	01/31/12
Lab Sample ID:	2B03312-CCV1	Injection Time:	14:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.11	1.083205	1.172349		8.2	20
Acenaphthylene	A	50.00	52.82	1.629931	1.721768		5.6	20
Acetophenone	A	50.00	55.64	1.695509	1.886921		11.3	20
Anthracene	A	50.00	53.91	1.050691	1.132816		7.8	20
Atrazine	A	50.00	52.21	0.2160612	0.2256051		4.4	20
Benzaldehyde	A	50.00	36.62	0.9209532	0.6744317		-26.8	20 *
Benzidine	A	50.00	56.46	0.4956721	0.559755		12.9	20
Benzo(a)anthracene	A	50.00	56.25	1.095634	1.232582		12.5	20
Benzo(a)pyrene	A	50.00	58.27	1.009584	1.176527		16.5	20
Benzo(b)fluoranthene	A	50.00	63.88	1.098945	1.404033		27.8	20 *
Benzo(g,h,i)perylene	A	50.00	58.26	0.6624725	0.7719725		16.5	20
Benzoic acid	Q	50.00	57.35	0.1554595	0.2113218		14.7	20
Benzo(k)fluoranthene	A	50.00	54.72	1.196207	1.309096		9.4	20
1,1-Biphenyl	A	50.00	56.05	1.411627	1.5825		12.1	20
4-Bromophenyl-phenylether	A	50.00	55.32	0.2128959	0.2355692		10.6	20
Butylbenzylphthalate	A	50.00	58.48	0.5814234	0.680055		17.0	20
Caprolactam	A	50.00	57.76	0.1002373	0.1158002		15.5	20
Carbazole	A	50.00	47.20	0.8490283	0.8015325		-5.6	20
4-Chloro-3-methylphenol	A	50.00	58.44	0.2842247	0.3321967		16.9	20
4-Chloroaniline	A	50.00	52.64	0.397385	0.418342		5.3	20
Bis(2-chloroethoxy)methane	A	50.00	55.32	0.4109238	0.4546381		10.6	20
Bis(2-chloroethyl)ether	A	50.00	55.02	1.246774	1.372086		10.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	44.34	1.385811	1.228957		-11.3	20
2-Chloronaphthalene	A	50.00	55.93	1.067192	1.193833		11.9	20
2-Chlorophenol	A	50.00	56.14	1.213089	1.362015		12.3	20
4-Chlorophenyl phenyl ether	A	50.00	54.87	0.6276701	0.6887946		9.7	20
Chrysene	A	50.00	57.03	0.9871305	1.125923		14.1	20
Dibenz(a,h)anthracene	A	50.00	64.71	0.6567817	0.8500332		29.4	20 *
Dibenzofuran	A	50.00	53.94	1.458562	1.573498		7.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2B03312	Injection Date:	01/31/12
Lab Sample ID:	2B03312-CCV1	Injection Time:	14:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	55.92	1.130804	1.264599		11.8	20
3,3'-Dichlorobenzidine	A	50.00	61.80	0.276533	0.3418213		23.6	20 *
2,4-Dichlorophenol	A	50.00	57.04	0.2811649	0.3207757		14.1	20
Diethylphthalate	A	50.00	54.14	1.22087	1.322015		8.3	20
2,4-Dimethylphenol	A	50.00	57.09	0.3452717	0.3942467		14.2	20
Dimethyl phthalate	A	50.00	54.03	1.221232	1.319746		8.1	20
4,6-Dinitro-2-methylphenol	L	50.00	53.94	0.1277417	0.1547459		7.9	20
2,4-Dinitrophenol	L	50.00	49.44	0.1429805	0.1722507	0.05	-1.1	20
2,4-Dinitrotoluene	A	50.00	55.59	0.3751877	0.4171644		11.2	20
2,6-Dinitrotoluene	A	50.00	54.82	0.2882009	0.3159655		9.6	20
Di-n-octylphthalate	A	50.00	65.85	1.334396	1.757477		31.7	20 *
1,2-Diphenylhydrazine	A	50.00	57.96	0.796287	0.9230741		15.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	62.90	0.7073331	0.8898438		25.8	20 *
Fluoranthene	A	50.00	55.40	1.108564	1.228321		10.8	20
Fluorene	A	50.00	54.80	1.266856	1.388377		9.6	20
Hexachlorobenzene	A	50.00	57.33	0.2189682	0.2510752		14.7	20
Hexachlorobutadiene	A	50.00	54.96	0.2016252	0.2216376		9.9	20
Hexachlorocyclopentadiene	A	50.00	66.14	0.2015279	0.2665789	0.05	32.3	20 *
Hexachloroethane	A	50.00	56.95	0.5506075	0.6271343		13.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	60.06	0.81915	0.9838832		20.1	20 *
Isophorone	A	50.00	54.07	0.6913313	0.7476034		8.1	20
1-Methylnaphthalene	A	50.00	53.12	0.5312415	0.5643691		6.2	20
2-Methylnaphthalene	A	50.00	53.14	0.5409797	0.5749273		6.3	20
2-Methylphenol	A	50.00	56.95	1.072064	1.221059		13.9	20
3-Methylphenol/4-Methylphenol	A	50.00	55.68	1.114689	1.241275		11.4	20
Naphthalene	A	50.00	54.54	0.9513071	1.037632		9.1	20
4-Nitroaniline	A	50.00	48.41	0.2383594	0.2307687		-3.2	20
3-Nitroaniline	A	50.00	51.44	0.2874555	0.2957348		2.9	20
2-Nitroaniline	A	50.00	57.63	0.3317505	0.3823647		15.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2018001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/10/12 00:00
Sequence:	2B03312	Injection Date:	01/31/12
Lab Sample ID:	2B03312-CCV1	Injection Time:	14:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	56.17	0.4029603	0.4527038		12.3	20
4-Nitrophenol	A	50.00	57.44	0.2166638	0.2489261	0.05	14.9	20
2-Nitrophenol	A	50.00	57.01	0.181443	0.2068717		14.0	20
N-Nitrosodiphenylamine	A	50.00	55.55	0.6164427	0.6848759		11.1	20
N-Nitroso-di-n-propylamine	A	50.00	53.70	0.9416943	1.011461	0.05	7.4	20
Pentachlorophenol	L	50.00	52.17	0.1292247	0.1519018		4.3	20
Phenanthrene	A	50.00	54.57	1.037726	1.132554		9.1	20
Phenol	A	50.00	56.68	1.644715	1.864599		13.4	20
Pyrene	A	50.00	52.52	1.428881	1.5009		5.0	20
2,4,6-Trichlorophenol	A	50.00	57.25	0.3533465	0.4046011		14.5	20
2,4,5-Trichlorophenol	A	50.00	61.19	0.3545972	0.4339636		22.4	20 *
2-Fluorobiphenyl	A	50.00	54.03	1.2833	1.386733		8.1	20
2-Fluorophenol	A	100.0	109.0	1.176842	1.282466		9.0	20
Nitrobenzene-d5	A	50.00	55.27	0.4045775	0.4472203		10.5	20
Phenol-d6	A	100.0	108.3	1.530246	1.657657		8.3	20
Terphenyl-d14	A	50.00	54.00	0.8755169	0.9456597		8.0	20
2,4,6-Tribromophenol	A	100.0	116.0	9.768516E-02	0.1132999		16.0	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-BLK1 File ID: A26004B1.D

Sampled: Prepared: Analyzed: 01/27/12 20:30

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2A02801 Calibration: 2018001 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	Q, Y, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	X, 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	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	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	Q, X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-BLK1 File ID: A26004B1.D

Sampled: Prepared: Analyzed: 01/27/12 20:30

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2A02801 Calibration: 2018001 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	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	46.68	93.4	50 - 110	
2-Fluorophenol	100.0	33.85	33.9	20 - 110	
Nitrobenzene-d5	50.00	44.21	88.4	40 - 110	
Phenol-d6	100.0	19.70	19.7	0 - 110	
Terphenyl-d14	50.00	51.79	104	50 - 135	
2,4,6-Tribromophenol	100.0	93.77	93.8	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_041

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

Matrix: | Laboratory ID: 2A26004-BS1 | File ID: A26004L1.D

Sampled: | Prepared: | Analyzed: 01/27/12 21:00

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2A26004 | Sequence: 2A02801 | Calibration: 2018001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	46.27	1.25	2.50	5.00	
208-96-8	Acenaphthylene	48.16	1.25	2.50	5.00	
98-86-2	Acetophenone	51.44	1.25	2.50	5.00	
120-12-7	Anthracene	51.28	1.25	2.50	5.00	
1912-24-9	Atrazine	58.91	1.25	2.50	5.00	Y
100-52-7	Benzaldehyde	53.95	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	51.61	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	53.85	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	57.35	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	44.74	1.25	2.50	5.00	
65-85-0	Benzoic acid	16.97	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	54.46	1.25	2.50	5.00	X
92-52-4	1,1-Biphenyl	54.91	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	54.94	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	58.14	1.25	2.50	5.00	
105-60-2	Caprolactam	8.232	1.25	2.50	5.00	
86-74-8	Carbazole	51.21	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	83.41	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.08	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	50.46	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	46.50	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	47.46	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	46.88	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	70.51	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	51.91	1.25	2.50	5.00	
218-01-9	Chrysene	53.17	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	49.45	1.25	2.50	5.00	
132-64-9	Dibenzofuran	48.74	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	54.85	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	62.65	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	88.31	1.25	2.50	5.00	
84-66-2	Diethylphthalate	51.98	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	85.28	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	51.85	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	98.87	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	81.18	1.00	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	50.48	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	48.57	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	74.94	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_041

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

Matrix: | Laboratory ID: 2A26004-BS1 | File ID: A26004L1.D

Sampled: | Prepared: | Analyzed: 01/27/12 21:00

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2A26004 | Sequence: 2A02801 | Calibration: 2018001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	53.07	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	59.05	1.25	2.50	5.00	
206-44-0	Fluoranthene	53.67	1.25	2.50	5.00	
86-73-7	Fluorene	50.57	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	53.31	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	32.18	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	43.50	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	25.99	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	48.39	1.25	2.50	5.00	
78-59-1	Isophorone	47.90	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	42.80	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	43.54	1.25	2.50	5.00	
95-48-7	2-Methylphenol	60.37	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	53.84	1.25	2.50	5.00	
91-20-3	Naphthalene	39.78	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	41.68	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	36.98	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	50.34	5.00	10.0	20.0	
98-95-3	Nitrobenzene	46.90	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	27.61	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	90.95	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	45.72	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	50.92	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	99.13	5.00	10.0	20.0	
85-01-8	Phenanthrene	51.85	1.25	2.50	5.00	
108-95-2	Phenol	22.46	1.25	2.50	5.00	
129-00-0	Pyrene	48.76	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	97.59	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	102.2	1.25	2.50	5.00	E

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.24	90.5	50 - 110	
2-Fluorophenol	100.0	36.01	36.0	20 - 110	
Nitrobenzene-d5	50.00	44.55	89.1	40 - 110	
Phenol-d6	100.0	20.35	20.4	0 - 110	
Terphenyl-d14	50.00	49.81	99.6	50 - 135	
2,4,6-Tribromophenol	100.0	97.53	97.5	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-MS1 File ID: 0113703M.D

Sampled: Prepared: Analyzed: 01/28/12 11:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	40.98	1.18	2.36	4.72	
208-96-8	Acenaphthylene	41.44	1.18	2.36	4.72	
98-86-2	Acetophenone	41.92	1.18	2.36	4.72	
120-12-7	Anthracene	46.42	1.18	2.36	4.72	
1912-24-9	Atrazine	53.25	1.18	2.36	4.72	Q
100-52-7	Benzaldehyde	43.73	1.18	2.36	4.72	
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene	48.49	1.18	2.36	4.72	
50-32-8	Benzo(a)pyrene	50.64	1.18	2.36	4.72	
205-99-2	Benzo(b)fluoranthene	54.92	1.18	2.36	4.72	X
191-24-2	Benzo(g,h,i)perylene	43.85	1.18	2.36	4.72	
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene	52.90	1.18	2.36	4.72	X
92-52-4	1,1-Biphenyl	45.73	1.18	2.36	4.72	
101-55-3	4-Bromophenyl-phenylether	50.46	1.18	2.36	4.72	
85-68-7	Butylbenzylphthalate	58.26	1.18	2.36	4.72	X, Q
105-60-2	Caprolactam	7.082	1.18	2.36	4.72	Q
86-74-8	Carbazole	44.73	1.18	2.36	4.72	
59-50-7	4-Chloro-3-methylphenol	71.86	1.18	2.36	4.72	
106-47-8	4-Chloroaniline	31.32	1.18	2.36	4.72	
111-91-1	Bis(2-chloroethoxy)methane	42.38	1.18	2.36	4.72	
111-44-4	Bis(2-chloroethyl)ether	37.77	1.18	2.36	4.72	
108-60-1	2,2'-Oxybis-1-chloropropane	37.56	1.18	2.36	4.72	
91-58-7	2-Chloronaphthalene	41.19	1.18	2.36	4.72	
95-57-8	2-Chlorophenol	52.91	1.18	2.36	4.72	
7005-72-3	4-Chlorophenyl phenyl ether	46.22	1.18	2.36	4.72	
218-01-9	Chrysene	49.89	1.18	2.36	4.72	
53-70-3	Dibenz(a,h)anthracene	45.51	1.18	2.36	4.72	
132-64-9	Dibenzofuran	43.50	1.18	2.36	4.72	
84-74-2	Di-n-butylphthalate	49.55	1.18	2.36	4.72	
91-94-1	3,3'-Dichlorobenzidine	55.84	1.18	2.36	4.72	Q
120-83-2	2,4-Dichlorophenol	68.60	1.18	2.36	4.72	
84-66-2	Diethylphthalate	47.54	1.18	2.36	4.72	
105-67-9	2,4-Dimethylphenol	69.52	4.72	9.43	18.9	
131-11-3	Dimethyl phthalate	47.88	1.18	2.36	4.72	
534-52-1	4,6-Dinitro-2-methylphenol	52.83	4.72	9.43	18.9	
51-28-5	2,4-Dinitrophenol	26.34	0.943	23.6	47.2	J
121-14-2	2,4-Dinitrotoluene	46.52	1.18	2.36	4.72	
606-20-2	2,6-Dinitrotoluene	44.91	1.18	2.36	4.72	
117-84-0	Di-n-octylphthalate	78.04	1.18	2.36	4.72	X, Q

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-MS1 File ID: 0113703M.D

Sampled: Prepared: Analyzed: 01/28/12 11:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	46.35	1.18	2.36	4.72	
117-81-7	Bis(2-ethylhexyl)phthalate	58.91	1.18	2.36	4.72	X
206-44-0	Fluoranthene	45.67	1.18	2.36	4.72	
86-73-7	Fluorene	44.80	1.18	2.36	4.72	
118-74-1	Hexachlorobenzene	48.20	1.18	2.36	4.72	
87-68-3	Hexachlorobutadiene	28.09	1.18	2.36	4.72	
77-47-4	Hexachlorocyclopentadiene	41.47	1.18	2.36	4.72	X
67-72-1	Hexachloroethane	20.94	1.18	2.36	4.72	
193-39-5	Indeno(1,2,3-cd)pyrene	45.04	1.18	2.36	4.72	
78-59-1	Isophorone	39.30	1.18	2.36	4.72	
90-12-0	1-Methylnaphthalene	36.66	1.18	2.36	4.72	
91-57-6	2-Methylnaphthalene	37.64	1.18	2.36	4.72	
95-48-7	2-Methylphenol	46.46	1.18	2.36	4.72	
108-39-4/106	3-Methylphenol/4-Methylphenol	42.48	1.18	2.36	4.72	
91-20-3	Naphthalene	33.59	1.18	2.36	4.72	
100-01-6	4-Nitroaniline	38.82	4.72	9.43	18.9	
99-09-2	3-Nitroaniline	35.37	4.72	9.43	18.9	
88-74-4	2-Nitroaniline	44.05	4.72	9.43	18.9	
98-95-3	Nitrobenzene	37.79	1.18	2.36	4.72	
100-02-7	4-Nitrophenol	14.25	4.72	9.43	18.9	J
88-75-5	2-Nitrophenol	72.04	1.18	2.36	4.72	
86-30-6	N-Nitrosodiphenylamine	40.85	1.18	2.36	4.72	
621-64-7	N-Nitroso-di-n-propylamine	41.38	1.18	2.36	4.72	
87-86-5	Pentachlorophenol	59.36	4.72	9.43	18.9	
85-01-8	Phenanthrene	47.44	1.18	2.36	4.72	
108-95-2	Phenol	17.95	1.18	2.36	4.72	
129-00-0	Pyrene	51.39	1.18	2.36	4.72	
88-06-2	2,4,6-Trichlorophenol	69.01	1.18	2.36	4.72	
95-95-4	2,4,5-Trichlorophenol	82.63	1.18	2.36	4.72	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	38.69	82.0	50 - 110	
2-Fluorophenol	94.34	25.11	26.6	20 - 110	
Nitrobenzene-d5	47.17	36.66	77.7	40 - 110	
Phenol-d6	94.34	15.89	16.8	0 - 110	
Terphenyl-d14	47.17	50.15	106	50 - 135	X
2,4,6-Tribromophenol	94.34	81.26	86.1	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-MSD1 File ID: 0113703S.D

Sampled: Prepared: Analyzed: 01/28/12 12:29

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	47.04	1.25	2.50	5.00	
208-96-8	Acenaphthylene	47.87	1.25	2.50	5.00	
98-86-2	Acetophenone	51.33	1.25	2.50	5.00	
120-12-7	Anthracene	50.40	1.25	2.50	5.00	
1912-24-9	Atrazine	58.14	1.25	2.50	5.00	Q
100-52-7	Benzaldehyde	55.05	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	51.92	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	53.16	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	56.49	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	51.52	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	52.41	1.25	2.50	5.00	X
92-52-4	1,1-Biphenyl	53.46	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	54.50	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	56.84	1.25	2.50	5.00	X, Q
105-60-2	Caprolactam	7.919	1.25	2.50	5.00	Q
86-74-8	Carbazole	49.72	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	87.05	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	39.35	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	51.55	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	47.11	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	47.46	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	48.32	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	60.33	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	51.95	1.25	2.50	5.00	
218-01-9	Chrysene	54.09	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	55.11	1.25	2.50	5.00	
132-64-9	Dibenzofuran	49.07	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	54.23	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	67.44	1.25	2.50	5.00	Q
120-83-2	2,4-Dichlorophenol	72.57	1.25	2.50	5.00	
84-66-2	Diethylphthalate	52.26	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	90.06	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	52.75	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	37.48	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	17.64	1.00	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	51.48	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	50.08	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	69.17	1.25	2.50	5.00	X, Q

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-MSD1 File ID: 0113703S.D

Sampled: Prepared: Analyzed: 01/28/12 12:29

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2A03106 Calibration: 2018001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	50.08	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	59.67	1.25	2.50	5.00	X
206-44-0	Fluoranthene	52.02	1.25	2.50	5.00	
86-73-7	Fluorene	50.91	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	52.24	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	36.21	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	49.13	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	27.62	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	53.01	1.25	2.50	5.00	
78-59-1	Isophorone	47.27	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	43.97	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	45.57	1.25	2.50	5.00	
95-48-7	2-Methylphenol	62.51	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	55.00	1.25	2.50	5.00	
91-20-3	Naphthalene	41.26	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	46.48	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	42.24	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	50.22	5.00	10.0	20.0	
98-95-3	Nitrobenzene	46.05	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	12.03	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	71.22	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	43.46	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	50.90	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	41.55	5.00	10.0	20.0	
85-01-8	Phenanthrene	51.33	1.25	2.50	5.00	
108-95-2	Phenol	21.27	1.25	2.50	5.00	
129-00-0	Pyrene	47.56	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	56.90	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	73.65	1.25	2.50	5.00	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.47	88.9	50 - 110	
2-Fluorophenol	100.0	25.12	25.1	20 - 110	
Nitrobenzene-d5	50.00	44.24	88.5	40 - 110	
Phenol-d6	100.0	18.76	18.8	0 - 110	
Terphenyl-d14	50.00	46.86	93.7	50 - 135	X
2,4,6-Tribromophenol	100.0	65.51	65.5	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A30004-BLK1 File ID: A30004B1.D

Sampled: Prepared: Analyzed: 01/31/12 15:12

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	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	X, 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	Q, X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	Q, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	Q, 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	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A30004-BLK1 File ID: A30004B1.D

Sampled: Prepared: Analyzed: 01/31/12 15:12

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A30004 Sequence: 2B03312 Calibration: 2018001 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	X, 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	2.50	5.00	X, 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	X, 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	Q, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, X, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.24	82.5	50 - 110	
2-Fluorophenol	100.0	36.58	36.6	20 - 110	
Nitrobenzene-d5	50.00	40.93	81.9	40 - 110	
Phenol-d6	100.0	19.92	19.9	0 - 110	
Terphenyl-d14	50.00	44.54	89.1	50 - 135	
2,4,6-Tribromophenol	100.0	87.45	87.4	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_041

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

Matrix: | Laboratory ID: 2A30004-BS1 | File ID: A30004L1.D

Sampled: | Prepared: | Analyzed: 01/31/12 15:42

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2A30004 | Sequence: 2B03312 | Calibration: 2018001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	44.85	1.25	2.50	5.00	
208-96-8	Acenaphthylene	46.04	1.25	2.50	5.00	
98-86-2	Acetophenone	48.55	1.25	2.50	5.00	
120-12-7	Anthracene	47.39	1.25	2.50	5.00	
1912-24-9	Atrazine	54.40	1.25	2.50	5.00	
100-52-7	Benzaldehyde	52.12	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	48.91	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	49.01	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	49.56	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	52.54	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	49.31	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	50.78	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	51.80	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	55.09	1.25	2.50	5.00	
105-60-2	Caprolactam	9.568	1.25	2.50	5.00	
86-74-8	Carbazole	44.19	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	76.35	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.44	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	48.19	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	45.57	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	44.99	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	46.29	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	57.12	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	48.02	1.25	2.50	5.00	
218-01-9	Chrysene	50.96	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	53.92	1.25	2.50	5.00	X
132-64-9	Dibenzofuran	46.94	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	51.34	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	60.57	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	65.02	1.25	2.50	5.00	
84-66-2	Diethylphthalate	50.16	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	81.71	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	49.48	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	43.77	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	29.67	1.00	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	49.63	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	47.44	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	62.32	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_041

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

Matrix: | Laboratory ID: 2A30004-BS1 | File ID: A30004L1.D

Sampled: | Prepared: | Analyzed: 01/31/12 15:42

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2A30004 | Sequence: 2B03312 | Calibration: 2018001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	48.12	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	56.62	1.25	2.50	5.00	X
206-44-0	Fluoranthene	49.22	1.25	2.50	5.00	
86-73-7	Fluorene	47.60	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	49.73	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	38.24	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	43.71	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	33.90	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	53.42	1.25	2.50	5.00	X
78-59-1	Isophorone	44.58	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	41.49	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	42.58	1.25	2.50	5.00	
95-48-7	2-Methylphenol	59.78	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	54.30	1.25	2.50	5.00	
91-20-3	Naphthalene	40.76	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	39.46	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	39.58	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	48.68	5.00	10.0	20.0	
98-95-3	Nitrobenzene	44.03	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	16.08	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	63.07	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	40.90	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	48.59	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	42.39	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.38	1.25	2.50	5.00	
108-95-2	Phenol	22.79	1.25	2.50	5.00	
129-00-0	Pyrene	45.25	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	55.57	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	67.84	1.25	2.50	5.00	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.33	84.7	50 - 110	
2-Fluorophenol	100.0	27.77	27.8	20 - 110	
Nitrobenzene-d5	50.00	41.82	83.6	40 - 110	
Phenol-d6	100.0	20.25	20.2	0 - 110	
Terphenyl-d14	50.00	42.34	84.7	50 - 135	
2,4,6-Tribromophenol	100.0	62.15	62.2	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_041

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

Matrix: | Laboratory ID: 2A30004-BSD1 | File ID: A30004L2.D

Sampled: | Prepared: | Analyzed: 01/31/12 16:13

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2A30004 | Sequence: 2B03312 | Calibration: 2018001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	44.18	1.25	2.50	5.00	
208-96-8	Acenaphthylene	44.84	1.25	2.50	5.00	
98-86-2	Acetophenone	47.28	1.25	2.50	5.00	
120-12-7	Anthracene	46.67	1.25	2.50	5.00	
1912-24-9	Atrazine	53.25	1.25	2.50	5.00	
100-52-7	Benzaldehyde	49.68	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	48.04	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	48.25	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	48.86	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	52.38	1.25	2.50	5.00	
65-85-0	Benzoic acid	22.38	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	48.35	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	50.02	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	50.64	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	53.16	1.25	2.50	5.00	
105-60-2	Caprolactam	9.331	1.25	2.50	5.00	
86-74-8	Carbazole	43.71	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	79.81	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	33.72	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	46.93	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	43.89	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	42.82	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	44.83	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	69.05	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	47.14	1.25	2.50	5.00	
218-01-9	Chrysene	50.76	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	53.84	1.25	2.50	5.00	X
132-64-9	Dibenzofuran	45.95	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	50.00	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	60.22	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	82.40	1.25	2.50	5.00	
84-66-2	Diethylphthalate	48.22	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	81.10	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	48.34	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	95.40	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	83.38	1.00	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	48.20	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	46.56	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	58.65	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2A30004-BSD1
File ID: A30004L2.D
Sampled:
Prepared:
Analyzed: 01/31/12 16:13
Solids:
Preparation: EXT_3510
Dilution:
Batch: 2A30004
Sequence: 2B03312
Calibration: 2018001
Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	48.19	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	54.31	1.25	2.50	5.00	X
206-44-0	Fluoranthene	48.41	1.25	2.50	5.00	
86-73-7	Fluorene	46.38	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	48.90	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	37.57	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	45.55	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	32.58	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	52.98	1.25	2.50	5.00	X
78-59-1	Isophorone	44.00	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	40.33	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	41.61	1.25	2.50	5.00	
95-48-7	2-Methylphenol	59.66	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	53.73	1.25	2.50	5.00	
91-20-3	Naphthalene	40.12	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	38.32	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	33.81	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	47.83	5.00	10.0	20.0	
98-95-3	Nitrobenzene	43.54	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	31.17	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	84.76	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	40.54	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	46.51	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	92.18	5.00	10.0	20.0	
85-01-8	Phenanthrene	47.98	1.25	2.50	5.00	
108-95-2	Phenol	24.70	1.25	2.50	5.00	
129-00-0	Pyrene	45.43	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	92.55	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	95.92	1.25	2.50	5.00	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.37	82.7	50 - 110	
2-Fluorophenol	100.0	38.21	38.2	20 - 110	
Nitrobenzene-d5	50.00	41.34	82.7	40 - 110	
Phenol-d6	100.0	21.89	21.9	0 - 110	
Terphenyl-d14	50.00	43.78	87.6	50 - 135	
2,4,6-Tribromophenol	100.0	92.70	92.7	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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
GW0375	01/23/12 09:12	01/24/12 08:45	01/26/12 12:00	3.08	7.00	01/27/12 22:31	1.44	40.00	
GW0376	01/23/12 12:46	01/24/12 08:45	01/26/12 12:00	2.93	7.00	01/28/12 11:27	1.98	40.00	
GW0377	01/23/12 11:16	01/24/12 08:45	01/26/12 12:00	2.99	7.00	01/27/12 23:02	1.46	40.00	
GW0397	01/23/12 13:48	01/24/12 08:45	01/26/12 12:00	2.88	7.00	01/28/12 13:00	2.04	40.00	
GW0398	01/23/12 10:55	01/24/12 08:45	01/26/12 12:00	3.00	7.00	01/28/12 13:31	2.06	40.00	
GW0378	01/23/12 14:10	01/25/12 07:00	01/26/12 12:00	2.87	7.00	01/28/12 14:02	2.08	40.00	
GW0379	01/24/12 09:10	01/25/12 07:00	01/26/12 12:00	2.08	7.00	01/28/12 14:33	2.11	40.00	
GW0380	01/24/12 09:10	01/25/12 07:00	01/26/12 12:00	2.08	7.00	01/28/12 15:03	2.13	40.00	
GW0396	01/23/12 16:45	01/25/12 07:00	01/26/12 12:00	2.76	7.00	01/28/12 15:33	2.15	40.00	
GW0428	01/24/12 14:00	01/25/12 07:00	01/26/12 12:00	1.88	7.00	01/28/12 16:04	2.17	40.00	
GW0430	01/24/12 11:21	01/25/12 07:00	01/26/12 12:00	1.99	7.00	01/31/12 16:43	5.20	40.00	
GW0404	01/25/12 14:41	01/26/12 08:30	01/30/12 12:15	4.86	7.00	01/31/12 17:14	1.21	40.00	
GW0410	01/24/12 14:59	01/26/12 08:30	01/30/12 12:15	5.84	7.00	01/31/12 17:44	1.23	40.00	
GW0429	01/25/12 10:21	01/26/12 08:30	01/30/12 12:15	5.04	7.00	01/31/12 18:14	1.25	40.00	
GW0466	01/26/12 13:52	01/27/12 08:20	01/30/12 12:15	3.89	7.00	02/01/12 00:49	1.52	40.00	
GW0467	01/26/12 13:52	01/27/12 08:20	01/30/12 12:15	3.89	7.00	02/01/12 01:19	1.54	40.00	
GW0468	01/26/12 11:32	01/27/12 08:20	01/30/12 12:15	3.99	7.00	01/31/12 19:45	1.31	40.00	
GW0472	01/26/12 09:37	01/27/12 08:20	01/30/12 12:15	4.07	7.00	01/31/12 20:15	1.33	40.00	
GW0475	01/26/12 14:03	01/27/12 08:20	01/30/12 12:15	3.88	7.00	01/31/12 20:46	1.35	40.00	
GW0493	01/25/12 15:47	01/27/12 08:20	01/30/12 12:15	4.81	7.00	01/31/12 21:17	1.38	40.00	

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	0113903.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 12:00	Analyzed:	02/04/12 00:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2B03712 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0481	0.0962	0.192	U
208-96-8	Acenaphthylene		0.0481	0.0962	0.192	U
120-12-7	Anthracene		0.0481	0.0962	0.192	U
56-55-3	Benzo(a)anthracene		0.0481	0.0962	0.192	U
50-32-8	Benzo(a)pyrene		0.0481	0.0962	0.192	U
205-99-2	Benzo(b)fluoranthene		0.0481	0.0962	0.192	U
191-24-2	Benzo(g,h,i)perylene		0.0481	0.0962	0.192	U
207-08-9	Benzo(k)fluoranthene		0.0481	0.0962	0.192	U
218-01-9	Chrysene		0.0481	0.0962	0.192	U
53-70-3	Dibenz(a,h)anthracene		0.0481	0.0962	0.192	U
206-44-0	Fluoranthene		0.0481	0.0962	0.192	U
86-73-7	Fluorene		0.0481	0.0962	0.192	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0481	0.0962	0.192	U
90-12-0	1-Methylnaphthalene		0.0481	0.0962	0.192	U
91-57-6	2-Methylnaphthalene		0.0481	0.0962	0.192	U
91-20-3	Naphthalene		0.0481	0.0962	0.192	U
85-01-8	Phenanthrene		0.0481	0.0962	0.192	U
129-00-0	Pyrene		0.0481	0.0962	0.192	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	35.29	73.4	34 - 167	
Terphenyl-d14	48.08	40.56	84.4	34 - 167	

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	0113905.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 12:00	Analyzed:	02/04/12 00:36
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A26004 Sequence: 2B03712 Calibration: 1238006 Instrument: MS-BNA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.36	68.7	34 - 167	
Terphenyl-d14	50.00	36.96	73.9	34 - 167	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03712	Instrument:	MS-BNA4
		Calibration:	1238006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B03712-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/03/12 16:28		
2-Fluorobiphenyl	5.000	113	80 - 120	6.866	6.866	0.0000	+/-0.500	
Terphenyl-d14	5.000	108	80 - 120	11.44	11.44	0.0000	+/-0.500	
LCS (2A26004-BS2) ug/L				Lab File ID: A26004L1.D		Analyzed: 02/03/12 22:21		
2-Fluorobiphenyl	50.00	73.8	34 - 167	6.867	6.866	0.0010	+/-0.500	
Terphenyl-d14	50.00	96.3	34 - 167	11.45	11.44	0.0100	+/-0.500	
LCS Dup (2A26004-BSD2) ug/L				Lab File ID: A26004L2.D		Analyzed: 02/03/12 22:48		
2-Fluorobiphenyl	50.00	76.7	34 - 167	6.866	6.866	0.0000	+/-0.500	
Terphenyl-d14	50.00	97.0	34 - 167	11.45	11.44	0.0100	+/-0.500	
Blank (2A26004-BLK2) ug/L				Lab File ID: A26004B1.D		Analyzed: 02/03/12 23:15		
2-Fluorobiphenyl	50.00	58.7	34 - 167	6.866	6.866	0.0000	+/-0.500	
Terphenyl-d14	50.00	79.7	34 - 167	11.449	11.44	0.0090	+/-0.500	
GW0379 (1201139-03) ug/L				Lab File ID: 0113903.D		Analyzed: 02/04/12 00:09		
2-Fluorobiphenyl	48.08	73.4	34 - 167	6.866	6.866	0.0000	+/-0.500	
Terphenyl-d14	48.08	84.4	34 - 167	11.44	11.44	0.0000	+/-0.500	
GW0380 (1201139-05) ug/L				Lab File ID: 0113905.D		Analyzed: 02/04/12 00:36		
2-Fluorobiphenyl	50.00	68.7	34 - 167	6.866	6.866	0.0000	+/-0.500	
Terphenyl-d14	50.00	73.9	34 - 167	11.44	11.44	0.0000	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26004	Laboratory ID:	2A26004-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.7501	75.0	41 - 132
Acenaphthylene	1.000	0.7655	76.6	43 - 140
Anthracene	1.000	0.8006	80.1	50 - 139
Benzo(a)anthracene	1.000	0.9424	94.2	58 - 141
Benzo(a)pyrene	1.000	0.7438	74.4	31 - 142
Benzo(b)fluoranthene	1.000	0.8182	81.8	42 - 156
Benzo(g,h,i)perylene	1.000	0.8969	89.7	12 - 171
Benzo(k)fluoranthene	1.000	0.8247	82.5	49 - 165
Chrysene	1.000	0.8758	87.6	51 - 155
Dibenz(a,h)anthracene	1.000	0.7976	79.8	28 - 153
Fluoranthene	1.000	0.9586	95.9	47 - 158
Fluorene	1.000	0.8105	81.0	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.8727	87.3	20 - 167
1-Methylnaphthalene	1.000	0.7036	70.4	35 - 131
2-Methylnaphthalene	1.000	0.7131	71.3	36 - 121
Naphthalene	1.000	0.6729	67.3	39 - 125
Phenanthrene	1.000	0.8782	87.8	46 - 144
Pyrene	1.000	0.9702	97.0	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.7686	76.9	2.44	30	41 - 132
Acenaphthylene	1.000	0.8221	82.2	7.13	30	43 - 140
Anthracene	1.000	0.8146	81.5	1.74	30	50 - 139
Benzo(a)anthracene	1.000	0.8928	89.3	5.41	30	58 - 141
Benzo(a)pyrene	1.000	0.7637	76.4	2.63	30	31 - 142
Benzo(b)fluoranthene	1.000	0.8008	80.1	2.15	30	42 - 156
Benzo(g,h,i)perylene	1.000	0.8344	83.4	7.22	30	12 - 171
Benzo(k)fluoranthene	1.000	0.8087	80.9	1.97	30	49 - 165
Chrysene	1.000	0.8683	86.8	0.860	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26004	Laboratory ID:	2A26004-BSD2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	1.000	0.7392	73.9	7.60	30	28 - 153
Fluoranthene	1.000	0.9456	94.6	1.38	30	47 - 158
Fluorene	1.000	0.8520	85.2	4.99	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.7910	79.1	9.82	30	20 - 167
1-Methylnaphthalene	1.000	0.7120	71.2	1.19	30	35 - 131
2-Methylnaphthalene	1.000	0.7672	76.7	7.32	30	36 - 121
Naphthalene	1.000	0.6953	69.5	3.29	30	39 - 125
Phenanthrene	1.000	0.9033	90.3	2.81	30	46 - 144
Pyrene	1.000	0.9210	92.1	5.20	30	39 - 158

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A26004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0379	1201139-03	01/26/12 12:00	1,040.00	1.00
GW0380	1201139-05	01/26/12 12:00	1,000.00	1.00
Blank	2A26004-BLK2	01/26/12 12:00	1,000.00	1.00
LCS	2A26004-BS2	01/26/12 12:00	1,000.00	1.00
LCS Dup	2A26004-BSD2	01/26/12 12:00	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/24/11
Instrument ID:	MS-BNA4	Injection Time:	14:16
Sequence:	1H23712	Lab Sample ID:	1H23712-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	46.6	PASS
68	Less than 2% of 69	1.46	PASS
69	Less than 200% of 198	49.8	PASS
70	Less than 2% of 69	0.379	PASS
127	40 - 60% of 198	57.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	25	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	79.7	PASS
442	40 - 200% of 198	97.7	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/03/12
Instrument ID:	MS-BNA4	Injection Time:	16:10
Sequence:	2B03712	Lab Sample ID:	2B03712-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	57.2	PASS
68	Less than 2% of 69	1.63	PASS
69	Less than 200% of 198	49.2	PASS
70	Less than 2% of 69	0.434	PASS
127	40 - 60% of 198	50.7	PASS
197	Less than 1% of 198	0.76	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.67	PASS
275	10 - 30% of 198	20.2	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	53.1	PASS
443	17 - 23% of 442	19.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23712	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23712-TUN1	SEQ-TUN1.D	08/24/11 14:16
Cal Standard	1H23712-CAL1	SEQ-CAL1.D	08/24/11 14:35
Cal Standard	1H23712-CAL2	SEQ-CAL2.D	08/24/11 15:05
Cal Standard	1H23712-CAL3	SEQ-CAL3.D	08/24/11 15:35
Cal Standard	1H23712-CAL4	SEQ-CAL4.D	08/24/11 16:05
Cal Standard	1H23712-CAL5	SEQ-CAL5.D	08/24/11 16:35
Cal Standard	1H23712-CAL6	SEQ-CAL6.D	08/24/11 17:05
Cal Standard	1H23712-CAL7	SEQ-CAL7.D	08/24/11 17:34
Cal Standard	1H23712-CAL9	SEQ-CAL9.D	08/24/11 18:33
Initial Cal Check	1H23712-ICV1	SEQ-ICV1.D	08/24/11 19:02

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03712	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2B03712-TUN1	SEQ-TUN1.D	02/03/12 16:10
Calibration Check	2B03712-CCV1	SEQ-CCV1.D	02/03/12 16:28
LCS	2A26004-BS2	A26004L1.D	02/03/12 22:21
LCS Dup	2A26004-BSD2	A26004L2.D	02/03/12 22:48
Blank	2A26004-BLK2	A26004B1.D	02/03/12 23:15
GW0379	1201139-03	0113903.D	02/04/12 00:09
GW0380	1201139-05	0113905.D	02/04/12 00:36

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03712	Instrument:	MS-BNA4
		Calibration:	1238006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2B03712-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/03/12 16:28			
Phenanthrene-d10	98596	9.432	105583	10.012	93	50 - 200	-0.5800	+/-0.50	
Perylene-d12	40818	15.465	58058	16.483	70	50 - 200	-1.0180	+/-0.50	
LCS (2A26004-BS2)			Lab File ID: A26004L1.D			Analyzed: 02/03/12 22:21			
Phenanthrene-d10	133295	9.442	98596	9.432	135	50 - 200	0.0100	+/-0.50	
Perylene-d12	58845	15.475	40818	15.465	144	50 - 200	0.0100	+/-0.50	
LCS Dup (2A26004-BSD2)			Lab File ID: A26004L2.D			Analyzed: 02/03/12 22:48			
Phenanthrene-d10	135149	9.432	98596	9.432	137	50 - 200	0.0000	+/-0.50	
Perylene-d12	58998	15.475	40818	15.465	145	50 - 200	0.0100	+/-0.50	
Blank (2A26004-BLK2)			Lab File ID: A26004B1.D			Analyzed: 02/03/12 23:15			
Phenanthrene-d10	166818	9.441	98596	9.432	169	50 - 200	0.0090	+/-0.50	
Perylene-d12	69357	15.475	40818	15.465	170	50 - 200	0.0100	+/-0.50	
GW0379 (1201139-03)			Lab File ID: 0113903.D			Analyzed: 02/04/12 00:09			
Phenanthrene-d10	137916	9.432	98596	9.432	140	50 - 200	0.0000	+/-0.50	
Perylene-d12	51672	15.475	40818	15.465	127	50 - 200	0.0100	+/-0.50	
GW0380 (1201139-05)			Lab File ID: 0113905.D			Analyzed: 02/04/12 00:36			
Phenanthrene-d10	146644	9.441	98596	9.432	149	50 - 200	0.0090	+/-0.50	
Perylene-d12	58162	15.475	40818	15.465	142	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.9250935	0.2	0.9137168	0.5	0.9364989	1	0.8390082	5	0.9269314	10	0.8393586
Acenaphthylene	0.1	1.310504	0.2	1.352461	0.5	1.271225	1	1.290937	5	1.386269	10	1.244926
Anthracene	0.1	1.06615	0.2	1.134831	0.5	1.101345	1	1.102299	5	1.188356	10	1.148519
Benzo(a)anthracene	0.1	0.5409415	0.2	0.6742062	0.5	0.5788873	1	0.7281002	5	0.6593813	10	0.7987934
Benzo(a)pyrene	0.1	1.378905	0.2	1.002256	0.5	1.016483	1	1.019308	5	1.075559	10	1.127809
Benzo(b)fluoranthene	0.1	1.122247	0.2	1.081127	0.5	1.238364	1	1.347532	5	1.400773	10	1.437569
Benzo(g,h,i)perylene	0.1	0.6978619	0.2	0.7632258	0.5	0.8646701	1	0.7961693	5	0.8182613	10	0.795468
Benzo(k)fluoranthene	0.1	1.344346	0.2	1.226983	0.5	1.325082	1	1.236505	5	1.347683	10	1.446366
Chrysene	0.1	0.5955121	0.2	0.6734888	0.5	0.5942531	1	0.7589479	5	0.660282	10	0.8081928
Dibenz(a,h)anthracene	0.1	0.6888766	0.2	0.7301866	0.5	0.6212773	1	0.7604637	5	0.8511152	10	0.8183589
Fluoranthene	0.1	0.9437932	0.2	1.144311	0.5	0.9607296	1	1.154921	5	1.122071	10	1.164182
Fluorene	0.1	0.7208357	0.2	0.7935516	0.5	0.8908906	1	0.8564163	5	0.9304082	10	0.8408686
2-Fluorobiphenyl	0.1	0.9588967	0.2	1.008414	0.5	0.9847565	1	0.9339003	5	0.9920094	10	0.8838859
Indeno(1,2,3-cd)pyrene	0.1	0.7780389	0.2	0.7517426	0.5	0.7584511	1	0.7398291	5	0.7760122	10	0.8214657
1-Methylnaphthalene	0.1	0.9628524	0.2	0.8826634	0.5	0.9399633	1	0.8267998	5	0.8932794	10	0.7948718
2-Methylnaphthalene	0.1	0.9978244	0.2	0.8913748	0.5	0.9675566	1	0.8669293	5	0.9100694	10	0.7917116
Naphthalene	0.1	1.747878	0.2	1.602784	0.5	1.531261	1	1.442401	5	1.532498	10	1.3281
Phenanthrene	0.1	1.100493	0.2	1.227222	0.5	1.113348	1	1.180057	5	1.188825	10	1.148797
Pyrene	0.1	1.188956	0.2	1.014922	0.5	0.9682087	1	1.142021	5	1.1344	10	1.157542
Terphenyl-d14	0.1	0.5796893	0.2	0.6757435	0.5	0.5439169	1	0.6142371	5	0.613267	10	0.6844251
2,4,6-Tribromophenol	0.2	~~0.144293~~	0.4	~~0.1036649~~	1	0.1499083	2	0.1575348	10	0.1820851	20	0.1756278

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

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	20	0.8784872	50	0.8458228								
Acenaphthylene	20	1.297533	50	1.20877								
Anthracene	20	1.205372	50	1.177482								
Benzo(a)anthracene	20	0.7839756	50	0.8122166								
Benzo(a)pyrene	20	1.205292	50	1.177397								
Benzo(b)fluoranthene	20	1.575784	50	1.477207								
Benzo(g,h,i)perylene	20	0.9098913	50	0.885178								
Benzo(k)fluoranthene	20	1.46597	50	1.416125								
Chrysene	20	0.7485348	50	0.7758677								
Dibenz(a,h)anthracene	20	0.9273779	50	0.9395602								
Fluoranthene	20	1.131794	50	1.144791								
Fluorene	20	0.885353	50	0.8574573								
2-Fluorobiphenyl	20	0.9326552	50	0.8648192								
Indeno(1,2,3-cd)pyrene	20	0.9101472	50	0.9226895								
1-Methylnaphthalene	20	0.8391113	50	0.7766753								
2-Methylnaphthalene	20	0.8795573	50	0.8287812								
Naphthalene	20	1.40468	50	1.318393								
Phenanthrene	20	1.192468	50	1.157994								
Pyrene	20	1.154247	50	1.138918								
Terphenyl-d14	20	0.6894383	50	0.6732402								
2,4,6-Tribromophenol	40	0.1903821	100	0.183212								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1238006		Instrument:	MS-BNA4	
Matrix:	Water		Calibration Dates:	8/24/11 14:35	8/24/11 18:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8881147	4.765862	8.240375	8.005672E-02			CCC (30)	
Acenaphthylene	1.295328	4.367363	8.027625	8.607367E-02			15	
Anthracene	1.140544	4.254591	10.10862	0.0700752			15	
Benzo(a)anthracene	0.6970627	14.59061	13.80988	0.0529908			15	
Benzo(a)pyrene	1.125376	11.34597	16.38237	4.577814E-02			CCC (30)	
Benzo(b)fluoranthene	1.335075	13.04297	15.80187	8.137397E-02			15	
Benzo(g,h,i)perylene	0.8163407	8.478144	18.8055	4.843521E-02			15	
Benzo(k)fluoranthene	1.351132	6.606248	15.85263	0.0761119			15	
Chrysene	0.7018849	11.75411	13.87237	4.522786E-02			15	
Dibenz(a,h)anthracene	0.792152	14.22527	18.3905	4.438511E-02			15	
Fluoranthene	1.095824	8.181104	11.52912	1.610412E-02			CCC (30)	
Fluorene	0.8469727	7.646974	8.87125	4.967807E-02			15	
2-Fluorobiphenyl	0.9449172	5.432361	7.39325	5.511184E-02			15	
Indeno(1,2,3-cd)pyrene	0.807297	8.877407	18.33625	0.0475878			15	
1-Methylnaphthalene	0.8645271	7.716576	7.057125	4.664672E-02			15	
2-Methylnaphthalene	0.8917256	7.590679	6.94225	9.738335E-02			15	
Naphthalene	1.488499	9.765898	6.111375	7.795345E-02			15	
Phenanthrene	1.163651	3.638206	10.04475	7.061639E-02			15	
Pyrene	1.112402	6.963902	11.839	6.221472E-02			15	
Terphenyl-d14	0.6342447	8.591082	12.10513	2.846396E-02			15	
2,4,6-Tribromophenol	0.173125	9.199082	9.170834	8.799438E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/24/11 14:16
Sequence:	1H23712	Injection Date:	08/24/11
Lab Sample ID:	1H23712-ICV1	Injection Time:	19:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.510	0.8881147	0.9786847		10.2	20
Acenaphthylene	A	5.000	5.578	1.295328	1.445077		11.6	20
Anthracene	A	5.000	5.626	1.140544	1.283382		12.5	20
Benzo(a)anthracene	A	5.000	5.418	0.6970627	0.7552943		8.4	20
Benzo(a)pyrene	A	5.000	5.079	1.125376	1.143152		1.6	20
Benzo(b)fluoranthene	A	5.000	5.229	1.335075	1.39628		4.6	20
Benzo(g,h,i)perylene	A	5.000	5.076	0.8163407	0.8286846		1.5	20
Benzo(k)fluoranthene	A	5.000	5.414	1.351132	1.462908		8.3	20
Chrysene	A	5.000	5.424	0.7018849	0.7614294		8.5	20
Dibenz(a,h)anthracene	A	5.000	5.548	0.792152	0.8789424		11.0	20
Fluoranthene	A	5.000	5.359	1.095824	1.174563		7.2	20
Fluorene	A	5.000	5.736	0.8469727	0.9715661		14.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.009	0.807297	0.808753		0.2	20
1-Methylnaphthalene	A	5.000	4.971	0.8645271	0.8594861		-0.6	20
2-Methylnaphthalene	A	5.000	5.068	0.8917256	0.9037654		1.4	20
Naphthalene	A	5.000	5.687	1.488499	1.69304		13.7	20
Phenanthrene	A	5.000	5.574	1.163651	1.297238		11.5	20
Pyrene	A	5.000	5.539	1.112402	1.232241		10.8	20
2-Fluorobiphenyl	A	5.000	5.058	0.9449172	0.9558622		1.2	20
Terphenyl-d14	A	5.000	5.406	0.6342447	0.6857866		8.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	08/24/11 14:16
Sequence:	2B03712	Injection Date:	02/03/12
Lab Sample ID:	2B03712-CCV1	Injection Time:	16:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.998	0.8881147	0.8877399		-0.04	20
Acenaphthylene	A	5.000	5.226	1.295328	1.353968		4.5	20
Anthracene	A	5.000	4.879	1.140544	1.112923		-2.4	20
Benzo(a)anthracene	A	5.000	4.771	0.6970627	0.6651426		-4.6	20
Benzo(a)pyrene	A	5.000	4.773	1.125376	1.074281		-4.5	20
Benzo(b)fluoranthene	A	5.000	4.892	1.335075	1.306335		-2.2	20
Benzo(g,h,i)perylene	A	5.000	5.878	0.8163407	0.95966		17.6	20
Benzo(k)fluoranthene	A	5.000	4.589	1.351132	1.240022		-8.2	20
Chrysene	A	5.000	4.542	0.7018849	0.6375269		-9.2	20
Dibenz(a,h)anthracene	A	5.000	5.265	0.792152	0.8341614		5.3	20
Fluoranthene	A	5.000	5.050	1.095824	1.106854		1.0	20
Fluorene	A	5.000	5.294	0.8469727	0.8968579		5.9	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.425	0.807297	0.8759273		8.5	20
1-Methylnaphthalene	A	5.000	5.031	0.8645271	0.8699136		0.6	20
2-Methylnaphthalene	A	5.000	4.781	0.8917256	0.852637		-4.4	20
Naphthalene	A	5.000	4.737	1.488499	1.410201		-5.3	20
Phenanthrene	A	5.000	5.040	1.163651	1.172861		0.8	20
Pyrene	A	5.000	5.092	1.112402	1.132827		1.8	20
2-Fluorobiphenyl	A	5.000	5.669	0.9449172	1.071305		13.4	20
Terphenyl-d14	A	5.000	5.392	0.6342447	0.6839405		7.8	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-BLK2 File ID: A26004B1.D

Sampled: Prepared: Analyzed: 02/03/12 23:15

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2B03712 Calibration: 1238006 Instrument: MS-BNA4

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	29.33	58.7	34 - 167	
Terphenyl-d14	50.00	39.86	79.7	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A26004-BS2	File ID:	A26004L1.D
Sampled:		Prepared:		Analyzed:	02/03/12 22:21
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A26004	Sequence:	2B03712	Calibration:	1238006	Instrument:	MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.7501	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7655	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8006	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.9424	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7438	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.8182	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.8969	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8247	0.0500	0.100	0.200	
218-01-9	Chrysene	0.8758	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.7976	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.9586	0.0500	0.100	0.200	
86-73-7	Fluorene	0.8105	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.8727	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.7036	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.7131	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.6729	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.8782	0.0500	0.100	0.200	
129-00-0	Pyrene	0.9702	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.91	73.8	34 - 167	
Terphenyl-d14	50.00	48.16	96.3	34 - 167	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Matrix: Laboratory ID: 2A26004-BSD2 File ID: A26004L2.D

Sampled: Prepared: Analyzed: 02/03/12 22:48

Solids: Preparation: EXT_3510 Dilution:

Batch: 2A26004 Sequence: 2B03712 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.7686	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.8221	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8146	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.8928	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7637	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.8008	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.8344	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8087	0.0500	0.100	0.200	
218-01-9	Chrysene	0.8683	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.7392	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.9456	0.0500	0.100	0.200	
86-73-7	Fluorene	0.8520	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.7910	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.7120	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.7672	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.6953	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.9033	0.0500	0.100	0.200	
129-00-0	Pyrene	0.9210	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.34	76.7	34 - 167	
Terphenyl-d14	50.00	48.51	97.0	34 - 167	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

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
GW0379	01/24/12 09:10	01/25/12 07:00	01/26/12 12:00	2.08	7.00	02/04/12 00:09	8.51	40.00	
GW0380	01/24/12 09:10	01/25/12 07:00	01/26/12 12:00	2.08	7.00	02/04/12 00:36	8.53	40.00	

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00203	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A00203-CAL1	019F1901.D	12/29/11 01:48
Cal Standard	2A00203-CAL2	020F2001.D	12/29/11 02:21
Cal Standard	2A00203-CAL3	021F2101.D	12/29/11 02:55
Cal Standard	2A00203-CAL4	022F2201.D	12/29/11 03:28
Cal Standard	2A00203-CAL5	023F2301.D	12/29/11 04:01
Cal Standard	2A00203-CAL6	024F2401.D	12/29/11 04:34
Initial Cal Check	2A00203-ICV1	025F2501.D	12/29/11 05:07

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03021	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A03021-CCV1	003F0301.D	01/27/12 16:25
Blank	2A27002-BLK1	004F0401.D	01/27/12 16:58
LCS	2A27002-BS1	005F0501.D	01/27/12 17:31
GW0375	1201137-01	006F0601.D	01/27/12 18:04
GW0376	1201137-03	007F0701.D	01/27/12 18:37
GW0376	2A27002-MS1	008F0801.D	01/27/12 19:10
GW0376	2A27002-MSD1	009F0901.D	01/27/12 19:43
GW0377	1201137-05	010F1001.D	01/27/12 20:16
GW0397	1201137-07	011F1101.D	01/27/12 20:48
GW0398	1201137-09	012F1201.D	01/27/12 21:21
GW0378	1201139-01	014F1401.D	01/27/12 22:27
GW0396	1201139-07	017F1701.D	01/28/12 00:06
Calibration Check	2A03021-CCV2	018F1801.D	01/28/12 00:39

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03311	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2B03311-CCV1	007F0701.D	01/31/12 16:04
Blank	2A30023-BLK1	008F0801.D	01/31/12 16:37
LCS	2A30023-BS1	009F0901.D	01/31/12 17:11
LCS Dup	2A30023-BSD1	010F1001.D	01/31/12 17:44
GW0466	1201193-01	011F1101.D	01/31/12 18:17
GW0467	1201193-03	012F1201.D	01/31/12 18:50
GW0468	1201193-05	013F1301.D	01/31/12 19:23
GW0472	1201193-07	014F1401.D	01/31/12 19:56
GW0475	1201193-09	015F1501.D	01/31/12 20:29
GW0493	1201193-11	016F1601.D	01/31/12 21:02
Calibration Check	2B03311-CCV2	021F2101.D	01/31/12 23:47

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03416	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2B03416-CCV1	003F0301.D	02/01/12 09:20
Blank	2A31004-BLK1	004F0401.D	02/01/12 10:09
LCS	2A31004-BS1	005F0501.D	02/01/12 10:42
GW0376	1201137-03RE1	006F0601.D	02/01/12 11:16
GW0376	2A31004-MS1	007F0701.D	02/01/12 12:59
GW0376	2A31004-MSD1	008F0801.D	02/01/12 13:32
GW0377	1201137-05RE1	009F0901.D	02/01/12 14:05
GW0397	1201137-07RE1	010F1001.D	02/01/12 14:38
GW0398	1201137-09RE1	011F1101.D	02/01/12 15:12
GW0378	1201139-01RE1	013F1301.D	02/01/12 16:18
GW0379	1201139-03RE1	014F1401.D	02/01/12 16:51
GW0380	1201139-05RE1	015F1501.D	02/01/12 17:24
GW0396	1201139-07RE1	016F1601.D	02/01/12 17:57
GW0428	1201139-09RE1	017F1701.D	02/01/12 18:31
Calibration Check	2B03416-CCV2	018F1801.D	02/01/12 19:04
GW0430	1201139-11RE1	019F1901.D	02/01/12 19:37
GW0404	1201151-01RE1	020F2001.D	02/01/12 20:10
GW0410	1201151-03RE1	021F2101.D	02/01/12 20:43
GW0429	1201151-05RE1	022F2201.D	02/01/12 21:16
Calibration Check	2B03416-CCV3	030F3001.D	02/02/12 01:40

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B04608	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2B04608-CCV1	003F0301.D	02/14/12 14:54
Blank	2B14004-BLK1	004F0401.D	02/14/12 15:27
LCS	2B14004-BS1	005F0501.D	02/14/12 16:01
GW0375	1201137-01RE1	006F0601.D	02/14/12 16:34
Calibration Check	2B04608-CCV2	007F0701.D	02/14/12 17:07

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	006F0601.D
Sampled:	01/23/12 09:12	Prepared:	01/27/12 09:20	Analyzed:	01/27/12 18:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01799	90.0	30 - 140	

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01RE1	File ID:	006F0601.D
Sampled:	01/23/12 09:12	Prepared:	02/14/12 11:18	Analyzed:	02/14/12 16:34
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2B14004 Sequence: 2B04608 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	H2, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.04000	0.03223	80.6	30 - 140	H2

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	007F0701.D
Sampled:	01/23/12 12:46	Prepared:	01/27/12 09:20	Analyzed:	01/27/12 18:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01631	84.8	30 - 140	

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03RE1	File ID:	006F0601.D
Sampled:	01/23/12 12:46	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 11:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U, H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01559	81.1	30 - 140	H2

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	010F1001.D
Sampled:	01/23/12 11:16	Prepared:	01/27/12 09:20	Analyzed:	01/27/12 20:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01708	85.4	30 - 140	

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05RE1	File ID:	009F0901.D
Sampled:	01/23/12 11:16	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 14:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U, H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01692	86.3	30 - 140	H2

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	011F1101.D
Sampled:	01/23/12 13:48	Prepared:	01/27/12 09:20	Analyzed:	01/27/12 20:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.719	0.0962	0.0962	0.0962	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01743	90.6	30 - 140	

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07RE1	File ID:	010F1001.D
Sampled:	01/23/12 13:48	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 14:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.941	0.0962	0.0962	0.0962	H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01799	93.5	30 - 140	H2

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	012F1201.D
Sampled:	01/23/12 10:55	Prepared:	01/27/12 09:20	Analyzed:	01/27/12 21:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U, Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01706	90.4	30 - 140	

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09RE1	File ID:	011F1101.D
Sampled:	01/23/12 10:55	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 15:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U, H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01562	82.8	30 - 140	H2

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	014F1401.D
Sampled:	01/23/12 14:10	Prepared:	01/27/12 09:20	Analyzed:	01/27/12 22:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01725	88.0	30 - 140	

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01RE1	File ID:	013F1301.D
Sampled:	01/23/12 14:10	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 16:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U, H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01778	92.5	30 - 140	H2

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03RE1	File ID:	014F1401.D
Sampled:	01/24/12 09:10	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 16:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01836	93.7	30 - 140	

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05RE1	File ID:	015F1501.D
Sampled:	01/24/12 09:10	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 17:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01899	102	30 - 140	

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	017F1701.D
Sampled:	01/23/12 16:45	Prepared:	01/27/12 09:20	Analyzed:	01/28/12 00:06
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A27002 Sequence: 2A03021 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01850	96.2	30 - 140	

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07RE1	File ID:	016F1601.D
Sampled:	01/23/12 16:45	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 17:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U, H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01796	91.6	30 - 140	H2

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09RE1	File ID:	017F1701.D
Sampled:	01/24/12 14:00	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 18:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01860	98.6	30 - 140	

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11RE1	File ID:	019F1901.D
Sampled:	01/24/12 11:21	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 19:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01693	88.0	30 - 140	

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01RE1	File ID:	020F2001.D
Sampled:	01/25/12 14:41	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 20:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01750	91.0	30 - 140	

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03RE1	File ID:	021F2101.D
Sampled:	01/24/12 14:59	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 20:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01612	85.5	30 - 140	

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05RE1	File ID:	022F2201.D
Sampled:	01/25/12 10:21	Prepared:	01/31/12 10:50	Analyzed:	02/01/12 21:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01891	94.5	30 - 140	

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01	File ID:	011F1101.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 15:30	Analyzed:	01/31/12 18:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.16	0.0962	0.0962	0.0962	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.02297	119	30 - 140	

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	012F1201.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 15:30	Analyzed:	01/31/12 18:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.28	0.0962	0.0962	0.0962	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.02324	121	30 - 140	

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	013F1301.D
Sampled:	01/26/12 11:32	Prepared:	01/30/12 15:30	Analyzed:	01/31/12 19:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.02181	116	30 - 140	

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	014F1401.D
Sampled:	01/26/12 09:37	Prepared:	01/30/12 15:30	Analyzed:	01/31/12 19:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.02595	135	30 - 140	

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	015F1501.D
Sampled:	01/26/12 14:03	Prepared:	01/30/12 15:30	Analyzed:	01/31/12 20:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02482	127	30 - 140	

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	016F1601.D
Sampled:	01/25/12 15:47	Prepared:	01/30/12 15:30	Analyzed:	01/31/12 21:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.02502	128	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27002	Laboratory ID:	2A27002-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**	**0.3290**	**32.9**	**50 - 150**

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30023	Laboratory ID:	2A30023-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	0.6565	65.7	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6376	63.8	2.93	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A31004	Laboratory ID:	2A31004-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	0.5299	53.0	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B14004	Laboratory ID:	2B14004-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	0.7120	71.2	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A27002

% Solids:

Source Sample Name: **1201137-03**

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	0.3730	37.3	*	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9804	0.3798	38.7	1.82	*	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A31004

% Solids:

Source Sample Name: **1201137-03RE1**

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	0.6132	61.3		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	0.8052	80.5	27.1		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27002 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/27/12 09:20	1,000.00	1.00
GW0376	1201137-03	01/27/12 09:20	1,040.00	1.00
GW0377	1201137-05	01/27/12 09:20	1,000.00	1.00
GW0397	1201137-07	01/27/12 09:20	1,040.00	1.00
GW0398	1201137-09	01/27/12 09:20	1,060.00	1.00
GW0378	1201139-01	01/27/12 09:20	1,020.00	1.00
GW0396	1201139-07	01/27/12 09:20	1,040.00	1.00
Blank	2A27002-BLK1	01/27/12 09:20	1,000.00	1.00
LCS	2A27002-BS1	01/27/12 09:20	1,000.00	1.00
GW0376	2A27002-MS1	01/27/12 09:20	1,000.00	1.00
GW0376	2A27002-MSD1	01/27/12 09:20	1,020.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A30023 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01	01/30/12 15:30	1,040.00	1.00
GW0467	1201193-03	01/30/12 15:30	1,040.00	1.00
GW0468	1201193-05	01/30/12 15:30	1,060.00	1.00
GW0472	1201193-07	01/30/12 15:30	1,040.00	1.00
GW0475	1201193-09	01/30/12 15:30	1,020.00	1.00
GW0493	1201193-11	01/30/12 15:30	1,020.00	1.00
Blank	2A30023-BLK1	01/30/12 15:30	1,000.00	1.00
LCS	2A30023-BS1	01/30/12 15:30	1,000.00	1.00
LCS Dup	2A30023-BSD1	01/30/12 15:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A31004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0376	1201137-03RE1	01/31/12 10:50	1,040.00	1.00
GW0377	1201137-05RE1	01/31/12 10:50	1,020.00	1.00
GW0397	1201137-07RE1	01/31/12 10:50	1,040.00	1.00
GW0398	1201137-09RE1	01/31/12 10:50	1,060.00	1.00
GW0378	1201139-01RE1	01/31/12 10:50	1,040.00	1.00
GW0379	1201139-03RE1	01/31/12 10:50	1,020.00	1.00
GW0380	1201139-05RE1	01/31/12 10:50	1,070.00	1.00
GW0396	1201139-07RE1	01/31/12 10:50	1,020.00	1.00
GW0428	1201139-09RE1	01/31/12 10:50	1,060.00	1.00
GW0430	1201139-11RE1	01/31/12 10:50	1,040.00	1.00
GW0404	1201151-01RE1	01/31/12 10:50	1,040.00	1.00
GW0410	1201151-03RE1	01/31/12 10:50	1,060.00	1.00
GW0429	1201151-05RE1	01/31/12 10:50	1,000.00	1.00
Blank	2A31004-BLK1	01/31/12 10:50	1,000.00	1.00
LCS	2A31004-BS1	01/31/12 10:50	1,000.00	1.00
GW0376	2A31004-MS1	01/31/12 10:50	500.00	1.00
GW0376	2A31004-MSD1	01/31/12 10:50	500.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B14004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01RE1	02/14/12 11:18	500.00	0.50
Blank	2B14004-BLK1	02/14/12 11:18	1,000.00	1.00
LCS	2B14004-BS1	02/14/12 11:18	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00203	Instrument:	GL-GCFID2
Calibration:	2002005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11K0386	DRO ICAL6@100ppm	2A00203-CAL1	019F1901.D	12/29/11 01:48
11K0385	DRO ICAL5@250ppm	2A00203-CAL2	020F2001.D	12/29/11 02:21
11K0384	DRO ICAL4@500ppm	2A00203-CAL3	021F2101.D	12/29/11 02:55
11K0383	DRO ICAL3@1000ppm	2A00203-CAL4	022F2201.D	12/29/11 03:28
11K0382	DRO ICAL2@2500ppm	2A00203-CAL5	023F2301.D	12/29/11 04:01
11K0381	DRO ICAL1@5000ppm	2A00203-CAL6	024F2401.D	12/29/11 04:34

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2002005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	12/29/11 1:48	12/29/11 4:34

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	833.24	250	799.816	500	821.242	1000	895.915	2500	942.2172	5000	1212.126
o-Terphenyl	5	1071.8	12.5	1188.24	25	1161.52	50	1157.34	125	1158.08	250	1109.332

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2002005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	12/29/11 1:48	12/29/11 4:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	917.426	16.7518	5.967	2.470398E-02			20	
o-Terphenyl	1141.052	3.718779	11.01183	3.526031E-02			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	025F2501.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00203	Injection Date:	12/29/11
Lab Sample ID:	2A00203-ICV1	Injection Time:	05:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	974.2	917.426	893.774		-2.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	003F0301.D	Calibration Date:	01/02/12 23:46
Sequence:	2A03021	Injection Date:	01/27/12
Lab Sample ID:	2A03021-CCV1	Injection Time:	16:25

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	928.0	917.426	851.35		-7.2	20
o-Terphenyl	A	50.00	57.51	1141.052	1312.48		15.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	018F1801.D	Calibration Date:	01/02/12 23:46
Sequence:	2A03021	Injection Date:	01/28/12
Lab Sample ID:	2A03021-CCV2	Injection Time:	00:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	888.2	917.426	814.843		-11.2	20
o-Terphenyl	A	50.00	53.85	1141.052	1228.94		7.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	007F0701.D	Calibration Date:	01/02/12 23:46
Sequence:	2B03311	Injection Date:	01/31/12
Lab Sample ID:	2B03311-CCV1	Injection Time:	16:04

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	938.4	917.426	860.925		-6.2	20
o-Terphenyl	A	50.00	56.21	1141.052	1282.7		12.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	021F2101.D	Calibration Date:	01/02/12 23:46
Sequence:	2B03311	Injection Date:	01/31/12
Lab Sample ID:	2B03311-CCV2	Injection Time:	23:47

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	929.0	917.426	852.272		-7.1	20
o-Terphenyl	A	50.00	55.12	1141.052	1257.94		10.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	003F0301.D	Calibration Date:	01/02/12 23:46
Sequence:	2B03416	Injection Date:	02/01/12
Lab Sample ID:	2B03416-CCV1	Injection Time:	09:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	916.3	917.426	840.606		-8.4	20
o-Terphenyl	A	50.00	54.88	1141.052	1252.44		9.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	018F1801.D	Calibration Date:	01/02/12 23:46
Sequence:	2B03416	Injection Date:	02/01/12
Lab Sample ID:	2B03416-CCV2	Injection Time:	19:04

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	914.8	917.426	839.309		-8.5	20
o-Terphenyl	A	50.00	56.00	1141.052	1277.92		12.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	030F3001.D	Calibration Date:	01/02/12 23:46
Sequence:	2B03416	Injection Date:	02/02/12
Lab Sample ID:	2B03416-CCV3	Injection Time:	01:40

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	952.4	917.426	873.782		-4.8	20
o-Terphenyl	A	50.00	58.06	1141.052	1324.92		16.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	003F0301.D	Calibration Date:	01/02/12 23:46
Sequence:	2B04608	Injection Date:	02/14/12
Lab Sample ID:	2B04608-CCV1	Injection Time:	14:54

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	927.2	917.426	850.646		-7.3	20
o-Terphenyl	A	50.00	57.16	1141.052	1304.46		14.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	007F0701.D	Calibration Date:	01/02/12 23:46
Sequence:	2B04608	Injection Date:	02/14/12
Lab Sample ID:	2B04608-CCV2	Injection Time:	17:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	919.0	917.426	843.137		-8.1	20
o-Terphenyl	A	50.00	57.14	1141.052	1303.98		14.3	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03021	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A03021-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 01/27/12 16:25		
o-Terphenyl	50.00	115	80 - 120	10.95	10.95	0.0000	+/-0.050	
Blank (2A27002-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 01/27/12 16:58		
o-Terphenyl	0.02000	118	30 - 140	10.92	10.95	-0.0300	+/-0.050	
LCS (2A27002-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 01/27/12 17:31		
o-Terphenyl	0.02000	59.8	30 - 140	10.936	10.95	-0.0140	+/-0.050	
GW0375 (1201137-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 01/27/12 18:04		
o-Terphenyl	0.02000	90.0	30 - 140	10.926	10.95	-0.0240	+/-0.050	
GW0376 (1201137-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 01/27/12 18:37		
o-Terphenyl	0.01923	84.8	30 - 140	10.93	10.95	-0.0200	+/-0.050	
Matrix Spike (2A27002-MS1) mg/L				Lab File ID: 008F0801.D		Analyzed: 01/27/12 19:10		
o-Terphenyl	0.02000	65.3	30 - 140	10.92	10.95	-0.0300	+/-0.050	
Matrix Spike Dup (2A27002-MSD1) mg/L				Lab File ID: 009F0901.D		Analyzed: 01/27/12 19:43		
o-Terphenyl	0.01961	67.5	30 - 140	10.92	10.95	-0.0300	+/-0.050	
GW0377 (1201137-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 01/27/12 20:16		
o-Terphenyl	0.02000	85.4	30 - 140	10.916	10.95	-0.0340	+/-0.050	
GW0397 (1201137-07) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/27/12 20:48		
o-Terphenyl	0.01923	90.6	30 - 140	10.913	10.95	-0.0370	+/-0.050	
GW0398 (1201137-09) mg/L				Lab File ID: 012F1201.D		Analyzed: 01/27/12 21:21		
o-Terphenyl	0.01887	90.4	30 - 140	10.916	10.95	-0.0340	+/-0.050	
GW0378 (1201139-01) mg/L				Lab File ID: 014F1401.D		Analyzed: 01/27/12 22:27		
o-Terphenyl	0.01961	88.0	30 - 140	10.923	10.95	-0.0270	+/-0.050	
GW0396 (1201139-07) mg/L				Lab File ID: 017F1701.D		Analyzed: 01/28/12 00:06		
o-Terphenyl	0.01923	96.2	30 - 140	10.906	10.95	-0.0440	+/-0.050	
Calibration Check (2A03021-CCV2) mg/L				Lab File ID: 018F1801.D		Analyzed: 01/28/12 00:39		
o-Terphenyl	50.00	108	80 - 120	10.906	10.95	-0.0440	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03311	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B03311-CCV1) mg/L				Lab File ID: 007F0701.D		Analyzed: 01/31/12 16:04		
o-Terphenyl	50.00	112	80 - 120	10.893	10.893	0.0000	+/-0.050	
Blank (2A30023-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 01/31/12 16:37		
o-Terphenyl	0.02000	119	30 - 140	10.923	10.893	0.0300	+/-0.050	
LCS (2A30023-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 01/31/12 17:11		
o-Terphenyl	0.02000	112	30 - 140	10.926	10.893	0.0330	+/-0.050	
LCS Dup (2A30023-BSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 01/31/12 17:44		
o-Terphenyl	0.02000	110	30 - 140	10.913	10.893	0.0200	+/-0.050	
GW0466 (1201193-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/31/12 18:17		
o-Terphenyl	0.01923	119	30 - 140	10.903	10.893	0.0100	+/-0.050	
GW0467 (1201193-03) mg/L				Lab File ID: 012F1201.D		Analyzed: 01/31/12 18:50		
o-Terphenyl	0.01923	121	30 - 140	10.9	10.893	0.0070	+/-0.050	
GW0468 (1201193-05) mg/L				Lab File ID: 013F1301.D		Analyzed: 01/31/12 19:23		
o-Terphenyl	0.01887	116	30 - 140	10.903	10.893	0.0100	+/-0.050	
GW0472 (1201193-07) mg/L				Lab File ID: 014F1401.D		Analyzed: 01/31/12 19:56		
o-Terphenyl	0.01923	135	30 - 140	10.89	10.893	-0.0030	+/-0.050	
GW0475 (1201193-09) mg/L				Lab File ID: 015F1501.D		Analyzed: 01/31/12 20:29		
o-Terphenyl	0.01961	127	30 - 140	10.893	10.893	0.0000	+/-0.050	
GW0493 (1201193-11) mg/L				Lab File ID: 016F1601.D		Analyzed: 01/31/12 21:02		
o-Terphenyl	0.01961	128	30 - 140	10.886	10.893	-0.0070	+/-0.050	
Calibration Check (2B03311-CCV2) mg/L				Lab File ID: 021F2101.D		Analyzed: 01/31/12 23:47		
o-Terphenyl	50.00	110	80 - 120	10.856	10.893	-0.0370	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03416	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B03416-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 02/01/12 09:20		
o-Terphenyl	50.00	110	80 - 120	10.936	10.936	0.0000	+/-0.050	
Blank (2A31004-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/01/12 10:09		
o-Terphenyl	0.02000	103	30 - 140	10.996	10.936	0.0600	+/-0.050	*
LCS (2A31004-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/01/12 10:42		
o-Terphenyl	0.02000	78.5	30 - 140	10.946	10.936	0.0100	+/-0.050	
GW0376 (1201137-03RE1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/01/12 11:16		
o-Terphenyl	0.01923	81.1	30 - 140	10.95	10.936	0.0140	+/-0.050	
Matrix Spike (2A31004-MS1) mg/L				Lab File ID: 007F0701.D		Analyzed: 02/01/12 12:59		
o-Terphenyl	0.02000	92.5	30 - 140	11.006	10.936	0.0700	+/-0.050	*
Matrix Spike Dup (2A31004-MSD1) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/01/12 13:32		
o-Terphenyl	0.02000	106	30 - 140	10.946	10.936	0.0100	+/-0.050	
GW0377 (1201137-05RE1) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/01/12 14:05		
o-Terphenyl	0.01961	86.3	30 - 140	10.936	10.936	0.0000	+/-0.050	
GW0397 (1201137-07RE1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/01/12 14:38		
o-Terphenyl	0.01923	93.5	30 - 140	10.93	10.936	-0.0060	+/-0.050	
GW0398 (1201137-09RE1) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/01/12 15:12		
o-Terphenyl	0.01887	82.8	30 - 140	10.94	10.936	0.0040	+/-0.050	
GW0378 (1201139-01RE1) mg/L				Lab File ID: 013F1301.D		Analyzed: 02/01/12 16:18		
o-Terphenyl	0.01923	92.5	30 - 140	10.933	10.936	-0.0030	+/-0.050	
GW0379 (1201139-03RE1) mg/L				Lab File ID: 014F1401.D		Analyzed: 02/01/12 16:51		
o-Terphenyl	0.01961	93.7	30 - 140	10.926	10.936	-0.0100	+/-0.050	
GW0380 (1201139-05RE1) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/01/12 17:24		
o-Terphenyl	0.01869	102	30 - 140	10.943	10.936	0.0070	+/-0.050	
GW0396 (1201139-07RE1) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/01/12 17:57		
o-Terphenyl	0.01961	91.6	30 - 140	10.926	10.936	-0.0100	+/-0.050	
GW0428 (1201139-09RE1) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/01/12 18:31		
o-Terphenyl	0.01887	98.6	30 - 140	10.93	10.936	-0.0060	+/-0.050	
Calibration Check (2B03416-CCV2) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/01/12 19:04		
o-Terphenyl	50.00	112	80 - 120	10.93	10.936	-0.0060	+/-0.050	
GW0430 (1201139-11RE1) mg/L				Lab File ID: 019F1901.D		Analyzed: 02/01/12 19:37		
o-Terphenyl	0.01923	88.0	30 - 140	10.923	10.936	-0.0130	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03416	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0404 (1201151-01RE1) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/01/12 20:10		
o-Terphenyl	0.01923	91.0	30 - 140	10.913	10.936	-0.0230	+/-0.050	
GW0410 (1201151-03RE1) mg/L				Lab File ID: 021F2101.D		Analyzed: 02/01/12 20:43		
o-Terphenyl	0.01887	85.5	30 - 140	10.903	10.936	-0.0330	+/-0.050	
GW0429 (1201151-05RE1) mg/L				Lab File ID: 022F2201.D		Analyzed: 02/01/12 21:16		
o-Terphenyl	0.02000	94.5	30 - 140	10.9	10.936	-0.0360	+/-0.050	
Calibration Check (2B03416-CCV3) mg/L				Lab File ID: 030F3001.D		Analyzed: 02/02/12 01:40		
o-Terphenyl	50.00	116	80 - 120	10.86	10.936	-0.0760	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B04608	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B04608-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 02/14/12 14:54		
o-Terphenyl	50.00	114	80 - 120	10.903	10.903	0.0000	+/-0.050	
Blank (2B14004-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/14/12 15:27		
o-Terphenyl	0.02000	98.4	30 - 140	10.926	10.903	0.0230	+/-0.050	
LCS (2B14004-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/14/12 16:01		
o-Terphenyl	0.02000	99.0	30 - 140	10.896	10.903	-0.0070	+/-0.050	
GW0375 (1201137-01RE1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/14/12 16:34		
o-Terphenyl	0.04000	80.6	30 - 140	10.893	10.903	-0.0100	+/-0.050	
Calibration Check (2B04608-CCV2) mg/L				Lab File ID: 007F0701.D		Analyzed: 02/14/12 17:07		
o-Terphenyl	50.00	114	80 - 120	10.893	10.903	-0.0100	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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
GW0375	01/23/12 09:12	01/24/12 08:45	01/27/12 09:20	3.96	7.00	01/27/12 18:04	0.36	40.00	
GW0375	01/23/12 09:12	01/24/12 08:45	02/14/12 11:18	22.05	7.00	02/14/12 16:34	0.22	40.00	*
GW0376	01/23/12 12:46	01/24/12 08:45	01/27/12 09:20	3.82	7.00	01/27/12 18:37	0.39	40.00	
GW0376	01/23/12 12:46	01/24/12 08:45	01/31/12 10:50	7.88	7.00	02/01/12 11:16	1.02	40.00	
GW0377	01/23/12 11:16	01/24/12 08:45	01/27/12 09:20	3.88	7.00	01/27/12 20:16	0.46	40.00	
GW0377	01/23/12 11:16	01/24/12 08:45	01/31/12 10:50	7.94	7.00	02/01/12 14:05	1.14	40.00	
GW0397	01/23/12 13:48	01/24/12 08:45	01/27/12 09:20	3.77	7.00	01/27/12 20:48	0.48	40.00	
GW0397	01/23/12 13:48	01/24/12 08:45	01/31/12 10:50	7.83	7.00	02/01/12 14:38	1.16	40.00	
GW0398	01/23/12 10:55	01/24/12 08:45	01/27/12 09:20	3.89	7.00	01/27/12 21:21	0.50	40.00	
GW0398	01/23/12 10:55	01/24/12 08:45	01/31/12 10:50	7.95	7.00	02/01/12 15:12	1.18	40.00	
GW0378	01/23/12 14:10	01/25/12 07:00	01/27/12 09:20	3.76	7.00	01/27/12 22:27	0.55	40.00	
GW0378	01/23/12 14:10	01/25/12 07:00	01/31/12 10:50	7.82	7.00	02/01/12 16:18	1.23	40.00	
GW0379	01/24/12 09:10	01/25/12 07:00	01/31/12 10:50	7.03	7.00	02/01/12 16:51	1.25	40.00	
GW0380	01/24/12 09:10	01/25/12 07:00	01/31/12 10:50	7.03	7.00	02/01/12 17:24	1.27	40.00	
GW0396	01/23/12 16:45	01/25/12 07:00	01/27/12 09:20	3.65	7.00	01/28/12 00:06	0.62	40.00	
GW0396	01/23/12 16:45	01/25/12 07:00	01/31/12 10:50	7.71	7.00	02/01/12 17:57	1.30	40.00	
GW0428	01/24/12 14:00	01/25/12 07:00	01/31/12 10:50	6.83	7.00	02/01/12 18:31	1.32	40.00	
GW0430	01/24/12 11:21	01/25/12 07:00	01/31/12 10:50	6.94	7.00	02/01/12 19:37	1.37	40.00	
GW0404	01/25/12 14:41	01/26/12 08:30	01/31/12 10:50	5.80	7.00	02/01/12 20:10	1.39	40.00	
GW0410	01/24/12 14:59	01/26/12 08:30	01/31/12 10:50	6.79	7.00	02/01/12 20:43	1.41	40.00	
GW0429	01/25/12 10:21	01/26/12 08:30	01/31/12 10:50	5.98	7.00	02/01/12 21:16	1.43	40.00	
GW0466	01/26/12 13:52	01/27/12 08:20	01/30/12 15:30	4.03	7.00	01/31/12 18:17	1.12	40.00	
GW0467	01/26/12 13:52	01/27/12 08:20	01/30/12 15:30	4.03	7.00	01/31/12 18:50	1.14	40.00	
GW0468	01/26/12 11:32	01/27/12 08:20	01/30/12 15:30	4.12	7.00	01/31/12 19:23	1.16	40.00	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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
GW0472	01/26/12 09:37	01/27/12 08:20	01/30/12 15:30	4.20	7.00	01/31/12 19:56	1.18	40.00	
GW0475	01/26/12 14:03	01/27/12 08:20	01/30/12 15:30	4.02	7.00	01/31/12 20:29	1.21	40.00	
GW0493	01/25/12 15:47	01/27/12 08:20	01/30/12 15:30	4.95	7.00	01/31/12 21:02	1.23	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27002-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	01/27/12 16:58
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A27002	Sequence:	2A03021	Calibration:	2002005	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02360	118	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27002-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	01/27/12 17:31
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A27002	Sequence:	2A03021	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.3290	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01195	59.8	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27002-MS1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	01/27/12 19:10
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A27002	Sequence:	2A03021	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.3730	0.100	0.100	0.100	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01306	65.3	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27002-MSD1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	01/27/12 19:43
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A27002	Sequence:	2A03021	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.3798	0.0980	0.0980	0.0980	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01324	67.5	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30023-BLK1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	01/31/12 16:37
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A30023	Sequence:	2B03311	Calibration:	2002005	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02381	119	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2A30023-BS1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	01/31/12 17:11
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2A30023 Sequence: 2B03311 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6565	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02235	112	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30023-BSD1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	01/31/12 17:44
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A30023	Sequence:	2B03311	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6376	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02204	110	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A31004-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	02/01/12 10:09
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A31004	Sequence:	2B03416	Calibration:	2002005	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02060	103	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A31004-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	02/01/12 10:42
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A31004	Sequence:	2B03416	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5299	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01570	78.5	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2A31004-MS1	File ID:	007F0701.D
Sampled:		Prepared:		Analyzed:	02/01/12 12:59
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2A31004 Sequence: 2B03416 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6132	0.200	0.200	0.200	H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01850	92.5	30 - 140	H2

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A31004-MSD1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	02/01/12 13:32
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A31004	Sequence:	2B03416	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8052	0.200	0.200	0.200	H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02118	106	30 - 140	H2

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2B14004-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	02/14/12 15:27
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2B14004	Sequence:	2B04608	Calibration:	2002005	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01967	98.4	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2B14004-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	02/14/12 16:01
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2B14004	Sequence:	2B04608	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7120	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01980	99.0	30 - 140	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A01310	Instrument:	GL-GCVOA2
Calibration:	2013003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A01310-CAL1	003F0301.D	01/10/12 16:43
Cal Standard	2A01310-CAL2	004F0401.D	01/10/12 17:21
Cal Standard	2A01310-CAL3	005F0501.D	01/10/12 17:59
Cal Standard	2A01310-CAL4	006F0601.D	01/10/12 18:37
Cal Standard	2A01310-CAL5	007F0701.D	01/10/12 19:14
Cal Standard	2A01310-CAL6	008F0801.D	01/10/12 19:52
Initial Cal Check	2A01310-ICV1	009F0901.D	01/10/12 20:30

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02505	Instrument:	GL-GCVOA2
Calibration:	2013003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A02505-CCV1	003F0301.D	01/24/12 15:56
LCS	2A24023-BS1	004F0401.D	01/24/12 16:34
Blank	2A24023-BLK1	005F0501.D	01/24/12 17:12
GW0375	1201137-01	006F0601.D	01/24/12 17:50
GW0376	1201137-03	007F0701.D	01/24/12 18:28
GW0376	2A24023-MS1	008F0801.D	01/24/12 19:06
GW0376	2A24023-MSD1	009F0901.D	01/24/12 19:44
GW0377	1201137-05	010F1001.D	01/24/12 20:22
GW0397	1201137-07	011F1101.D	01/24/12 21:00
GW0398	1201137-09	012F1201.D	01/24/12 21:37
Calibration Check	2A02505-CCV2	013F1301.D	01/24/12 22:15

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02613	Instrument:	GL-GCVOA2
Calibration:	2013003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A02613-CCV1	003F0301.D	01/25/12 15:08
LCS	2A25018-BS1	004F0401.D	01/25/12 16:05
Blank	2A25018-BLK1	005F0501.D	01/25/12 16:44
GW0378	1201139-01	006F0601.D	01/25/12 17:22
GW0378	2A25018-MS1	007F0701.D	01/25/12 18:00
GW0378	2A25018-MSD1	008F0801.D	01/25/12 18:38
GW0379	1201139-03	009F0901.D	01/25/12 19:15
GW0380	1201139-05	010F1001.D	01/25/12 19:53
GW0396	1201139-07	011F1101.D	01/25/12 20:31
GW0428	1201139-09	012F1201.D	01/25/12 21:08
GW0430	1201139-11	013F1301.D	01/25/12 21:46
Calibration Check	2A02613-CCV2	014F1401.D	01/25/12 22:24

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03007	Instrument:	GL-GCVOA2
Calibration:	2013003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A03007-CCV1	003F0301.D	01/27/12 10:01
LCS	2A27008-BS1	004F0401.D	01/27/12 11:08
Blank	2A27008-BLK1	005F0501.D	01/27/12 11:46
GW0404	1201151-01	006F0601.D	01/27/12 12:26
GW0404	2A27008-MS1	007F0701.D	01/27/12 13:05
GW0404	2A27008-MSD1	008F0801.D	01/27/12 13:44
GW0410	1201151-03	009F0901.D	01/27/12 14:22
GW0429	1201151-05	010F1001.D	01/27/12 15:01
Calibration Check	2A03007-CCV2	011F1101.D	01/27/12 15:40

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03108	Instrument:	GL-GCVOA2
Calibration:	2013003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A03108-CCV1	003F0301.D	01/30/12 14:01
LCS	2A30020-BS1	004F0401.D	01/30/12 14:40
Blank	2A30020-BLK1	005F0501.D	01/30/12 15:42
GW0466	1201193-01	006F0601.D	01/30/12 16:21
GW0467	1201193-03	007F0701.D	01/30/12 17:00
GW0468	1201193-05	008F0801.D	01/30/12 17:39
GW0472	1201193-07	009F0901.D	01/30/12 18:18
GW0475	1201193-09	010F1001.D	01/30/12 18:57
GW0493	1201193-11	011F1101.D	01/30/12 19:36
Calibration Check	2A03108-CCV2	018F1801.D	01/31/12 00:10

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	006F0601.D
Sampled:	01/23/12 09:12	Prepared:	01/24/12 12:57	Analyzed:	01/24/12 17:50
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 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	0.05747	115	50 - 150	

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	007F0701.D
Sampled:	01/23/12 12:46	Prepared:	01/24/12 12:57	Analyzed:	01/24/12 18:28
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 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	0.05527	111	50 - 150	

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	010F1001.D
Sampled:	01/23/12 11:16	Prepared:	01/24/12 12:57	Analyzed:	01/24/12 20:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 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	0.05351	107	50 - 150	

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	011F1101.D
Sampled:	01/23/12 13:48	Prepared:	01/24/12 12:57	Analyzed:	01/24/12 21:00
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.218	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05409	108	50 - 150	

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	012F1201.D
Sampled:	01/23/12 10:55	Prepared:	01/24/12 12:57	Analyzed:	01/24/12 21:37
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.129	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05338	107	50 - 150	

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	006F0601.D
Sampled:	01/23/12 14:10	Prepared:	01/25/12 11:07	Analyzed:	01/25/12 17:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 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	0.05631	113	50 - 150	

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	009F0901.D
Sampled:	01/24/12 09:10	Prepared:	01/25/12 11:07	Analyzed:	01/25/12 19:15
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 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	0.05502	110	50 - 150	

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	010F1001.D
Sampled:	01/24/12 09:10	Prepared:	01/25/12 11:07	Analyzed:	01/25/12 19:53
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 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	0.05540	111	50 - 150	

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	011F1101.D
Sampled:	01/23/12 16:45	Prepared:	01/25/12 11:07	Analyzed:	01/25/12 20:31
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.134	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05544	111	50 - 150	

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09	File ID:	012F1201.D
Sampled:	01/24/12 14:00	Prepared:	01/25/12 11:07	Analyzed:	01/25/12 21:08
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 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	0.05557	111	50 - 150	

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11	File ID:	013F1301.D
Sampled:	01/24/12 11:21	Prepared:	01/25/12 11:07	Analyzed:	01/25/12 21:46
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 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	0.05519	110	50 - 150	

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01	File ID:	006F0601.D
Sampled:	01/25/12 14:41	Prepared:	01/27/12 07:43	Analyzed:	01/27/12 12:26
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A27008 Sequence: 2A03007 Calibration: 2013003 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	0.06092	122	50 - 150	

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03	File ID:	009F0901.D
Sampled:	01/24/12 14:59	Prepared:	01/27/12 07:43	Analyzed:	01/27/12 14:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A27008 Sequence: 2A03007 Calibration: 2013003 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	0.06271	125	50 - 150	

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05	File ID:	010F1001.D
Sampled:	01/25/12 10:21	Prepared:	01/27/12 07:43	Analyzed:	01/27/12 15:01
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A27008 Sequence: 2A03007 Calibration: 2013003 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	0.05904	118	50 - 150	

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01	File ID:	006F0601.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 11:09	Analyzed:	01/30/12 16:21
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A30020 Sequence: 2A03108 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.38	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06442	129	50 - 150	

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	007F0701.D
Sampled:	01/26/12 13:52	Prepared:	01/30/12 11:09	Analyzed:	01/30/12 17:00
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A30020 Sequence: 2A03108 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.38	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06402	128	50 - 150	

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	008F0801.D
Sampled:	01/26/12 11:32	Prepared:	01/30/12 11:09	Analyzed:	01/30/12 17:39
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A30020 Sequence: 2A03108 Calibration: 2013003 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	0.06012	120	50 - 150	

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	009F0901.D
Sampled:	01/26/12 09:37	Prepared:	01/30/12 11:09	Analyzed:	01/30/12 18:18
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A30020 Sequence: 2A03108 Calibration: 2013003 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	0.05886	118	50 - 150	

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	010F1001.D
Sampled:	01/26/12 14:03	Prepared:	01/30/12 11:09	Analyzed:	01/30/12 18:57
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A30020 Sequence: 2A03108 Calibration: 2013003 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	0.06156	123	50 - 150	

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	011F1101.D
Sampled:	01/25/12 15:47	Prepared:	01/30/12 11:09	Analyzed:	01/30/12 19:36
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2A30020 Sequence: 2A03108 Calibration: 2013003 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	0.05707	114	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A24023	Laboratory ID:	2A24023-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	0.5344	107	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A25018	Laboratory ID:	2A25018-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	0.4722	94.4	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27008	Laboratory ID:	2A27008-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	0.4711	94.2	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30020	Laboratory ID:	2A30020-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	0.5707	114	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A24023

% Solids:

Source Sample Name: **1201137-03**

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	0.5013	100		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	0.4600	92.0	8.59		50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0378

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A25018

% Solids:

Source Sample Name: **1201139-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.4753	95.1		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4872	97.4	2.48		50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0404

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A27008

% Solids:

Source Sample Name: **1201151-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.5104	102		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	0.4884	97.7	4.40		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A24023 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/24/12 12:57	5.00	5.00
GW0376	1201137-03	01/24/12 12:57	5.00	5.00
GW0377	1201137-05	01/24/12 12:57	5.00	5.00
GW0397	1201137-07	01/24/12 12:57	5.00	5.00
GW0398	1201137-09	01/24/12 12:57	5.00	5.00
Blank	2A24023-BLK1	01/24/12 12:57	5.00	5.00
LCS	2A24023-BS1	01/24/12 12:57	5.00	5.00
GW0376	2A24023-MS1	01/24/12 12:57	5.00	5.00
GW0376	2A24023-MSD1	01/24/12 12:57	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A25018 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0378	1201139-01	01/25/12 11:07	5.00	5.00
GW0379	1201139-03	01/25/12 11:07	5.00	5.00
GW0380	1201139-05	01/25/12 11:07	5.00	5.00
GW0396	1201139-07	01/25/12 11:07	5.00	5.00
GW0428	1201139-09	01/25/12 11:07	5.00	5.00
GW0430	1201139-11	01/25/12 11:07	5.00	5.00
Blank	2A25018-BLK1	01/25/12 11:07	5.00	5.00
LCS	2A25018-BS1	01/25/12 11:07	5.00	5.00
GW0378	2A25018-MS1	01/25/12 11:07	5.00	5.00
GW0378	2A25018-MSD1	01/25/12 11:07	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27008 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0404	1201151-01	01/27/12 07:43	5.00	5.00
GW0410	1201151-03	01/27/12 07:43	5.00	5.00
GW0429	1201151-05	01/27/12 07:43	5.00	5.00
Blank	2A27008-BLK1	01/27/12 07:43	5.00	5.00
LCS	2A27008-BS1	01/27/12 07:43	5.00	5.00
GW0404	2A27008-MS1	01/27/12 07:43	5.00	5.00
GW0404	2A27008-MSD1	01/27/12 07:43	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A30020 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01	01/30/12 11:09	5.00	5.00
GW0467	1201193-03	01/30/12 11:09	5.00	5.00
GW0468	1201193-05	01/30/12 11:09	5.00	5.00
GW0472	1201193-07	01/30/12 11:09	5.00	5.00
GW0475	1201193-09	01/30/12 11:09	5.00	5.00
GW0493	1201193-11	01/30/12 11:09	5.00	5.00
Blank	2A30020-BLK1	01/30/12 11:09	5.00	5.00
LCS	2A30020-BS1	01/30/12 11:09	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A01310	Instrument:	GL-GCVOA2
Calibration:	2013003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12A0176	GRO Cal 0.1ppm	2A01310-CAL1	003F0301.D	01/10/12 16:43
12A0177	GRO Cal 0.2ppm	2A01310-CAL2	004F0401.D	01/10/12 17:21
12A0186	GRO Cal 0.5ppm	2A01310-CAL3	005F0501.D	01/10/12 17:59
12A0187	GRO Cal 1.0ppm	2A01310-CAL4	006F0601.D	01/10/12 18:37
12A0188	GRO Cal 2.0ppm	2A01310-CAL5	007F0701.D	01/10/12 19:14
12A0189	GRO Cal 5.0ppm	2A01310-CAL6	008F0801.D	01/10/12 19:52

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2013003	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	1/10/12 16:43	1/10/12 19:52

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	1802660	0.2	1361635	0.5	1141132	1	1304253	2	1238869	5	1204126
Bromofluorobenzene	0.01	1018300	0.02	958500	0.05	1110480	0.1	773880	0.2	884025	0.5	833310

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2013003	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	1/10/12 16:43	1/10/12 19:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1342112	17.758	7.777	1.116742E-02			20	
Bromofluorobenzene	929749.2	13.34889	20.288	0.0286463			20	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	009F0901.D	Calibration Date:	01/10/12 16:05
Sequence:	2A01310	Injection Date:	01/10/12
Lab Sample ID:	2A01310-ICV1	Injection Time:	20:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5640	1342112	1513952		12.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	003F0301.D	Calibration Date:	01/10/12 16:05
Sequence:	2A02505	Injection Date:	01/24/12
Lab Sample ID:	2A02505-CCV1	Injection Time:	15:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5505	1342112	1477636		10.1	20
Bromofluorobenzene	A	0.05000	0.04466	929749.2	830500		-10.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	013F1301.D	Calibration Date:	01/10/12 16:05
Sequence:	2A02505	Injection Date:	01/24/12
Lab Sample ID:	2A02505-CCV2	Injection Time:	22:15

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4377	1342112	1174978		-12.5	20
Bromofluorobenzene	A	0.05000	0.04055	929749.2	754100		-18.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	003F0301.D	Calibration Date:	01/10/12 16:05
Sequence:	2A02613	Injection Date:	01/25/12
Lab Sample ID:	2A02613-CCV1	Injection Time:	15:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5282	1342112	1417726		5.6	20
Bromofluorobenzene	A	0.05000	0.05290	929749.2	983700		5.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	014F1401.D	Calibration Date:	01/10/12 16:05
Sequence:	2A02613	Injection Date:	01/25/12
Lab Sample ID:	2A02613-CCV2	Injection Time:	22:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4722	1342112	1267388		-5.6	20
Bromofluorobenzene	A	0.05000	0.05064	929749.2	941740		1.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	003F0301.D	Calibration Date:	01/10/12 16:05
Sequence:	2A03007	Injection Date:	01/27/12
Lab Sample ID:	2A03007-CCV1	Injection Time:	10:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5114	1342112	1372650		2.3	20
Bromofluorobenzene	A	0.05000	0.05004	929749.2	930520		0.08	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	011F1101.D	Calibration Date:	01/10/12 16:05
Sequence:	2A03007	Injection Date:	01/27/12
Lab Sample ID:	2A03007-CCV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4762	1342112	1278138		-4.8	20
Bromofluorobenzene	A	0.05000	0.04954	929749.2	921240		-0.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	003F0301.D	Calibration Date:	01/10/12 16:05
Sequence:	2A03108	Injection Date:	01/30/12
Lab Sample ID:	2A03108-CCV1	Injection Time:	14:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5505	1342112	1477718		10.1	20
Bromofluorobenzene	A	0.05000	0.04650	929749.2	864600		-7.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2013003
Lab File ID:	018F1801.D	Calibration Date:	01/10/12 16:05
Sequence:	2A03108	Injection Date:	01/31/12
Lab Sample ID:	2A03108-CCV2	Injection Time:	00:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5053	1342112	1356312		1.1	20
Bromofluorobenzene	A	0.05000	0.04921	929749.2	915060		-1.6	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02505	Instrument:	GL-GCVOA2
		Calibration:	2013003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A02505-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 01/24/12 15:56		
Bromofluorobenzene	0.05000	89.3	80 - 120	20.263	20.263	0.0000	+/-0.210	
LCS (2A24023-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 01/24/12 16:34		
Bromofluorobenzene	0.05000	63.8	50 - 150	20.266	20.263	0.0030	+/-0.210	
Blank (2A24023-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 01/24/12 17:12		
Bromofluorobenzene	0.05000	109	50 - 150	20.266	20.263	0.0030	+/-0.210	
GW0375 (1201137-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 01/24/12 17:50		
Bromofluorobenzene	0.05000	115	50 - 150	20.27	20.263	0.0070	+/-0.210	
GW0376 (1201137-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 01/24/12 18:28		
Bromofluorobenzene	0.05000	111	50 - 150	20.273	20.263	0.0100	+/-0.210	
Matrix Spike (2A24023-MS1) mg/L				Lab File ID: 008F0801.D		Analyzed: 01/24/12 19:06		
Bromofluorobenzene	0.05000	80.3	50 - 150	20.273	20.263	0.0100	+/-0.210	
Matrix Spike Dup (2A24023-MSD1) mg/L				Lab File ID: 009F0901.D		Analyzed: 01/24/12 19:44		
Bromofluorobenzene	0.05000	77.0	50 - 150	20.276	20.263	0.0130	+/-0.210	
GW0377 (1201137-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 01/24/12 20:22		
Bromofluorobenzene	0.05000	107	50 - 150	20.28	20.263	0.0170	+/-0.210	
GW0397 (1201137-07) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/24/12 21:00		
Bromofluorobenzene	0.05000	108	50 - 150	20.283	20.263	0.0200	+/-0.210	
GW0398 (1201137-09) mg/L				Lab File ID: 012F1201.D		Analyzed: 01/24/12 21:37		
Bromofluorobenzene	0.05000	107	50 - 150	20.283	20.263	0.0200	+/-0.210	
Calibration Check (2A02505-CCV2) ug/mL				Lab File ID: 013F1301.D		Analyzed: 01/24/12 22:15		
Bromofluorobenzene	0.05000	81.1	80 - 120	20.28	20.263	0.0170	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02613	Instrument:	GL-GCVOA2
		Calibration:	2013003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A02613-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 01/25/12 15:08		
Bromofluorobenzene	0.05000	106	80 - 120	20.266	20.266	0.0000	+/-0.210	
LCS (2A25018-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 01/25/12 16:05		
Bromofluorobenzene	0.05000	76.4	50 - 150	20.27	20.266	0.0040	+/-0.210	
Blank (2A25018-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 01/25/12 16:44		
Bromofluorobenzene	0.05000	119	50 - 150	20.27	20.266	0.0040	+/-0.210	
GW0378 (1201139-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 01/25/12 17:22		
Bromofluorobenzene	0.05000	113	50 - 150	20.276	20.266	0.0100	+/-0.210	
Matrix Spike (2A25018-MS1) mg/L				Lab File ID: 007F0701.D		Analyzed: 01/25/12 18:00		
Bromofluorobenzene	0.05000	82.5	50 - 150	20.28	20.266	0.0140	+/-0.210	
Matrix Spike Dup (2A25018-MSD1) mg/L				Lab File ID: 008F0801.D		Analyzed: 01/25/12 18:38		
Bromofluorobenzene	0.05000	71.2	50 - 150	20.286	20.266	0.0200	+/-0.210	
GW0379 (1201139-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 01/25/12 19:15		
Bromofluorobenzene	0.05000	110	50 - 150	20.286	20.266	0.0200	+/-0.210	
GW0380 (1201139-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 01/25/12 19:53		
Bromofluorobenzene	0.05000	111	50 - 150	20.29	20.266	0.0240	+/-0.210	
GW0396 (1201139-07) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/25/12 20:31		
Bromofluorobenzene	0.05000	111	50 - 150	20.29	20.266	0.0240	+/-0.210	
GW0428 (1201139-09) mg/L				Lab File ID: 012F1201.D		Analyzed: 01/25/12 21:08		
Bromofluorobenzene	0.05000	111	50 - 150	20.293	20.266	0.0270	+/-0.210	
GW0430 (1201139-11) mg/L				Lab File ID: 013F1301.D		Analyzed: 01/25/12 21:46		
Bromofluorobenzene	0.05000	110	50 - 150	20.293	20.266	0.0270	+/-0.210	
Calibration Check (2A02613-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 01/25/12 22:24		
Bromofluorobenzene	0.05000	101	80 - 120	20.286	20.266	0.0200	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03007	Instrument:	GL-GCVOA2
		Calibration:	2013003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A03007-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 01/27/12 10:01		
Bromofluorobenzene	0.05000	100	80 - 120	20.273	20.273	0.0000	+/-0.210	
LCS (2A27008-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 01/27/12 11:08		
Bromofluorobenzene	0.05000	104	50 - 150	20.266	20.273	-0.0070	+/-0.210	
Blank (2A27008-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 01/27/12 11:46		
Bromofluorobenzene	0.05000	124	50 - 150	20.266	20.273	-0.0070	+/-0.210	
GW0404 (1201151-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 01/27/12 12:26		
Bromofluorobenzene	0.05000	122	50 - 150	20.27	20.273	-0.0030	+/-0.210	
Matrix Spike (2A27008-MS1) mg/L				Lab File ID: 007F0701.D		Analyzed: 01/27/12 13:05		
Bromofluorobenzene	0.05000	87.6	50 - 150	20.27	20.273	-0.0030	+/-0.210	
Matrix Spike Dup (2A27008-MSD1) mg/L				Lab File ID: 008F0801.D		Analyzed: 01/27/12 13:44		
Bromofluorobenzene	0.05000	88.3	50 - 150	20.27	20.273	-0.0030	+/-0.210	
GW0410 (1201151-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 01/27/12 14:22		
Bromofluorobenzene	0.05000	125	50 - 150	20.27	20.273	-0.0030	+/-0.210	
GW0429 (1201151-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 01/27/12 15:01		
Bromofluorobenzene	0.05000	118	50 - 150	20.27	20.273	-0.0030	+/-0.210	
Calibration Check (2A03007-CCV2) ug/mL				Lab File ID: 011F1101.D		Analyzed: 01/27/12 15:40		
Bromofluorobenzene	0.05000	99.1	80 - 120	20.27	20.273	-0.0030	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03108	Instrument:	GL-GCVOA2
		Calibration:	2013003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A03108-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 01/30/12 14:01		
Bromofluorobenzene	0.05000	93.0	80 - 120	20.243	20.243	0.0000	+/-0.210	
LCS (2A30020-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 01/30/12 14:40		
Bromofluorobenzene	0.05000	98.2	50 - 150	20.246	20.243	0.0030	+/-0.210	
Blank (2A30020-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 01/30/12 15:42		
Bromofluorobenzene	0.05000	111	50 - 150	20.246	20.243	0.0030	+/-0.210	
GW0466 (1201193-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 01/30/12 16:21		
Bromofluorobenzene	0.05000	129	50 - 150	20.25	20.243	0.0070	+/-0.210	
GW0467 (1201193-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 01/30/12 17:00		
Bromofluorobenzene	0.05000	128	50 - 150	20.25	20.243	0.0070	+/-0.210	
GW0468 (1201193-05) mg/L				Lab File ID: 008F0801.D		Analyzed: 01/30/12 17:39		
Bromofluorobenzene	0.05000	120	50 - 150	20.253	20.243	0.0100	+/-0.210	
GW0472 (1201193-07) mg/L				Lab File ID: 009F0901.D		Analyzed: 01/30/12 18:18		
Bromofluorobenzene	0.05000	118	50 - 150	20.253	20.243	0.0100	+/-0.210	
GW0475 (1201193-09) mg/L				Lab File ID: 010F1001.D		Analyzed: 01/30/12 18:57		
Bromofluorobenzene	0.05000	123	50 - 150	20.253	20.243	0.0100	+/-0.210	
GW0493 (1201193-11) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/30/12 19:36		
Bromofluorobenzene	0.05000	114	50 - 150	20.256	20.243	0.0130	+/-0.210	
Calibration Check (2A03108-CCV2) ug/mL				Lab File ID: 018F1801.D		Analyzed: 01/31/12 00:10		
Bromofluorobenzene	0.05000	98.4	80 - 120	20.256	20.243	0.0130	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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
GW0375	01/23/12 09:12	01/24/12 08:45	01/24/12 12:57	N/A	14.00	01/24/12 17:50	1.32	14.00	
GW0376	01/23/12 12:46	01/24/12 08:45	01/24/12 12:57	N/A	14.00	01/24/12 18:28	1.20	14.00	
GW0377	01/23/12 11:16	01/24/12 08:45	01/24/12 12:57	N/A	14.00	01/24/12 20:22	1.34	14.00	
GW0397	01/23/12 13:48	01/24/12 08:45	01/24/12 12:57	N/A	14.00	01/24/12 21:00	1.26	14.00	
GW0398	01/23/12 10:55	01/24/12 08:45	01/24/12 12:57	N/A	14.00	01/24/12 21:37	1.40	14.00	
GW0378	01/23/12 14:10	01/25/12 07:00	01/25/12 11:07	N/A	14.00	01/25/12 17:22	2.09	14.00	
GW0379	01/24/12 09:10	01/25/12 07:00	01/25/12 11:07	N/A	14.00	01/25/12 19:15	1.38	14.00	
GW0380	01/24/12 09:10	01/25/12 07:00	01/25/12 11:07	N/A	14.00	01/25/12 19:53	1.40	14.00	
GW0396	01/23/12 16:45	01/25/12 07:00	01/25/12 11:07	N/A	14.00	01/25/12 20:31	2.12	14.00	
GW0428	01/24/12 14:00	01/25/12 07:00	01/25/12 11:07	N/A	14.00	01/25/12 21:08	1.26	14.00	
GW0430	01/24/12 11:21	01/25/12 07:00	01/25/12 11:07	N/A	14.00	01/25/12 21:46	1.39	14.00	
GW0404	01/25/12 14:41	01/26/12 08:30	01/27/12 07:43	N/A	14.00	01/27/12 12:26	1.86	14.00	
GW0410	01/24/12 14:59	01/26/12 08:30	01/27/12 07:43	N/A	14.00	01/27/12 14:22	2.93	14.00	
GW0429	01/25/12 10:21	01/26/12 08:30	01/27/12 07:43	N/A	14.00	01/27/12 15:01	2.15	14.00	
GW0466	01/26/12 13:52	01/27/12 08:20	01/30/12 11:09	N/A	14.00	01/30/12 16:21	4.06	14.00	
GW0467	01/26/12 13:52	01/27/12 08:20	01/30/12 11:09	N/A	14.00	01/30/12 17:00	4.09	14.00	
GW0468	01/26/12 11:32	01/27/12 08:20	01/30/12 11:09	N/A	14.00	01/30/12 17:39	4.21	14.00	
GW0472	01/26/12 09:37	01/27/12 08:20	01/30/12 11:09	N/A	14.00	01/30/12 18:18	4.32	14.00	
GW0475	01/26/12 14:03	01/27/12 08:20	01/30/12 11:09	N/A	14.00	01/30/12 18:57	4.16	14.00	
GW0493	01/25/12 15:47	01/27/12 08:20	01/30/12 11:09	N/A	14.00	01/30/12 19:36	5.12	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A24023-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	01/24/12 17:12
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A24023	Sequence:	2A02505	Calibration:	2013003	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	0.05468	109	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A24023-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	01/24/12 16:34
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A24023	Sequence:	2A02505	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5344	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03188	63.8	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2A24023-MS1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	01/24/12 19:06
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5013	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04013	80.3	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2A24023-MSD1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	01/24/12 19:44
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2A24023 Sequence: 2A02505 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4600	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03848	77.0	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A25018-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	01/25/12 16:44
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A25018	Sequence:	2A02613	Calibration:	2013003	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	0.05945	119	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A25018-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	01/25/12 16:05
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A25018	Sequence:	2A02613	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4722	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03819	76.4	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_041	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2A25018-MS1	File ID:	007F0701.D
Sampled:		Prepared:		Analyzed:	01/25/12 18:00
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2A25018 Sequence: 2A02613 Calibration: 2013003 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4753	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04126	82.5	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A25018-MSD1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	01/25/12 18:38
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A25018	Sequence:	2A02613	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4872	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03559	71.2	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27008-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	01/27/12 11:46
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A27008	Sequence:	2A03007	Calibration:	2013003	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	0.06221	124	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27008-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	01/27/12 11:08
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A27008	Sequence:	2A03007	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4711	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05219	104	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27008-MS1	File ID:	007F0701.D
Sampled:		Prepared:		Analyzed:	01/27/12 13:05
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A27008	Sequence:	2A03007	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5104	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04380	87.6	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A27008-MSD1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	01/27/12 13:44
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A27008	Sequence:	2A03007	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4884	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04414	88.3	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30020-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	01/30/12 15:42
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A30020	Sequence:	2A03108	Calibration:	2013003	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	0.05573	111	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30020-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	01/30/12 14:40
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2A30020	Sequence:	2A03108	Calibration:	2013003	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5707	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04908	98.2	50 - 150	

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03112	Instrument:	GL-ECD2
Calibration:	2031002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A03112-CAL1	002R0101.D	01/27/12 13:49
Cal Standard	2A03112-CAL1	002F0101.D	01/27/12 13:49
Cal Standard	2A03112-CAL2	003F0101.D	01/27/12 14:10
Cal Standard	2A03112-CAL2	003R0101.D	01/27/12 14:10
Cal Standard	2A03112-CAL3	004F0101.D	01/27/12 14:32
Cal Standard	2A03112-CAL3	004R0101.D	01/27/12 14:32
Cal Standard	2A03112-CAL4	005F0101.D	01/27/12 14:53
Cal Standard	2A03112-CAL4	005R0101.D	01/27/12 14:53
Cal Standard	2A03112-CAL5	006R0101.D	01/27/12 15:14
Cal Standard	2A03112-CAL5	006F0101.D	01/27/12 15:14
Cal Standard	2A03112-CAL6	007R0101.D	01/27/12 15:35
Cal Standard	2A03112-CAL6	007F0101.D	01/27/12 15:35
Cal Standard	2A03112-CAL7	008F0101.D	01/27/12 15:56
Cal Standard	2A03112-CAL7	008R0101.D	01/27/12 15:56
Cal Standard	2A03112-CAL8	009F0101.D	01/27/12 16:18
Cal Standard	2A03112-CAL8	009R0101.D	01/27/12 16:18
Cal Standard	2A03112-CAL9	010F0101.D	01/27/12 16:39
Cal Standard	2A03112-CAL9	010R0101.D	01/27/12 16:39
Initial Cal Check	2A03112-ICV1	011R0101.D	01/27/12 17:01
Initial Cal Check	2A03112-ICV1	011F0101.D	01/27/12 17:01

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03207	Instrument:	GL-ECD2
Calibration:	2031002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2B03207-CCV1	012F0101.D	01/27/12 17:22
Calibration Check	2B03207-CCV1	012R0101.D	01/27/12 17:22
Blank	2A24022-BLK1	013R0101.D	01/27/12 17:44
LCS	2A24022-BS1	014R0101.D	01/27/12 18:05
LCS	2A24022-BS1	014F0101.D	01/27/12 18:05
GW0375	1201137-01	017R0101.D	01/27/12 19:09
GW0376	1201137-03	018R0101.D	01/27/12 19:30
GW0376	2A24022-MS1	019R0101.D	01/27/12 19:51
GW0376	2A24022-MS1	019F0101.D	01/27/12 19:51
GW0376	2A24022-MSD1	020R0101.D	01/27/12 20:12
GW0376	2A24022-MSD1	020F0101.D	01/27/12 20:12
GW0377	1201137-05	021R0101.D	01/27/12 20:33
GW0397	1201137-07	022R0101.D	01/27/12 20:54
GW0397	1201137-07	022F0101.D	01/27/12 20:54
GW0398	1201137-09	023R0101.D	01/27/12 21:16
GW0398	1201137-09	023F0101.D	01/27/12 21:16
GW0378	1201139-01	024R0101.D	01/27/12 21:37
GW0379	1201139-03	025R0101.D	01/27/12 21:58
Calibration Check	2B03207-CCV2	026F0101.D	01/27/12 22:19
Calibration Check	2B03207-CCV2	026R0101.D	01/27/12 22:19
GW0380	1201139-05	027R0101.D	01/27/12 22:40
GW0396	1201139-07	028R0101.D	01/27/12 23:02
GW0396	1201139-07	028F0101.D	01/27/12 23:02
GW0428	1201139-09	029R0101.D	01/27/12 23:23
GW0430	1201139-11	030F0101.D	01/27/12 23:44
Calibration Check	2B03207-CCV3	031R0101.D	01/28/12 00:05
Calibration Check	2B03207-CCV3	031F0101.D	01/28/12 00:05

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03413	Instrument:	GL-ECD2
Calibration:	2031002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2B03413-CCV1	002R0101.D	01/31/12 10:40
Calibration Check	2B03413-CCV1	002F0101.D	01/31/12 10:40
Blank	2A30024-BLK1	003R0101.D	01/31/12 11:01
LCS	2A30024-BS1	004F0101.D	01/31/12 11:22
LCS	2A30024-BS1	004R0101.D	01/31/12 11:22
LCS Dup	2A30024-BSD1	005R0101.D	01/31/12 11:44
LCS Dup	2A30024-BSD1	005F0101.D	01/31/12 11:44
GW0404	1201151-01	006R0101.D	01/31/12 12:05
GW0404	1201151-01	006F0101.D	01/31/12 12:05
GW0410	1201151-03	007R0101.D	01/31/12 13:32
GW0429	1201151-05	008R0101.D	01/31/12 13:49
GW0466	1201193-01	009R0101.D	01/31/12 14:10
GW0466	1201193-01	009F0101.D	01/31/12 14:10
GW0467	1201193-03	010R0101.D	01/31/12 14:32
GW0467	1201193-03	010F0101.D	01/31/12 14:32
GW0468	1201193-05	011R0101.D	01/31/12 14:53
GW0472	1201193-07	012R0101.D	01/31/12 15:14
GW0472	1201193-07	012F0101.D	01/31/12 15:14
GW0475	1201193-09	013F0101.D	01/31/12 15:35
GW0493	1201193-11	014R0101.D	01/31/12 15:57
Calibration Check	2B03413-CCV2	016R0101.D	01/31/12 16:39
Calibration Check	2B03413-CCV2	016F0101.D	01/31/12 16:39

ANALYSIS DATA SHEET

GW0375

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-01	File ID:	017R0101.D
Sampled:	01/23/12 09:12	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 19:09
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-03	File ID:	018R0101.D
Sampled:	01/23/12 12:46	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 19:30
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05	File ID:	021R0101.D
Sampled:	01/23/12 11:16	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 20:33
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07	File ID:	022R0101.D
Sampled:	01/23/12 13:48	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 20:54
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.236	0.00952	0.0190	0.0285	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09	File ID:	023R0101.D
Sampled:	01/23/12 10:55	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 21:16
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.331	0.00936	0.0187	0.0281	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-01	File ID:	024R0101.D
Sampled:	01/23/12 14:10	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 21:37
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-03	File ID:	025R0101.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 21:58
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05	File ID:	027R0101.D
Sampled:	01/24/12 09:10	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 22:40
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07	File ID:	028F0101.D
Sampled:	01/23/12 16:45	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 23:02
Solids:		Preparation:	EDB	Dilution:	2.5

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	1.28	0.0234	0.0468	0.0702	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-09	File ID:	029R0101.D
Sampled:	01/24/12 14:00	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 23:23
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-11	File ID:	030F0101.D
Sampled:	01/24/12 11:21	Prepared:	01/26/12 07:21	Analyzed:	01/27/12 23:44
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00931	0.0186	0.0279	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01	File ID:	006F0101.D
Sampled:	01/25/12 14:41	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 12:05
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.0290	0.00940	0.0188	0.0282	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03	File ID:	007R0101.D
Sampled:	01/24/12 14:59	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 13:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00937	0.0187	0.0281	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05	File ID:	008R0101.D
Sampled:	01/25/12 10:21	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 13:49
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00952	0.0190	0.0286	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01	File ID:	009F0101.D
Sampled:	01/26/12 13:52	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 14:10
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.166	0.00938	0.0188	0.0281	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03	File ID:	010F0101.D
Sampled:	01/26/12 13:52	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 14:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.175	0.00938	0.0188	0.0281	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05	File ID:	011R0101.D
Sampled:	01/26/12 11:32	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 14:53
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00950	0.0190	0.0285	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07	File ID:	012R0101.D
Sampled:	01/26/12 09:37	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 15:14
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.476	0.00942	0.0188	0.0282	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09	File ID:	013F0101.D
Sampled:	01/26/12 14:03	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 15:35
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00954	0.0191	0.0286	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11	File ID:	014R0101.D
Sampled:	01/25/12 15:47	Prepared:	01/31/12 07:15	Analyzed:	01/31/12 15:57
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00948	0.0190	0.0284	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A24022	Laboratory ID:	2A24022-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	0.5052	101	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5260	105	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30024	Laboratory ID:	2A30024-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	0.5121	102	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5311	106	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	0.5104	102	0.327	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5324	106	0.254	20	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A24022

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4711	ND	0.4633	98.3		70 - 130
1,2-Dibromoethane [2C]	0.4711	ND	0.4680	99.3		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4652	0.4499	96.7	2.92		20	70 - 130
1,2-Dibromoethane [2C]	0.4652	0.4648	99.9	0.681		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A24022 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/26/12 07:21	37.29	35.00
GW0376	1201137-03	01/26/12 07:21	37.16	35.00
GW0377	1201137-05	01/26/12 07:21	37.43	35.00
GW0397	1201137-07	01/26/12 07:21	36.78	35.00
GW0398	1201137-09	01/26/12 07:21	37.41	35.00
GW0378	1201139-01	01/26/12 07:21	36.95	35.00
GW0379	1201139-03	01/26/12 07:21	37.13	35.00
GW0380	1201139-05	01/26/12 07:21	37.39	35.00
GW0396	1201139-07	01/26/12 07:21	37.37	35.00
GW0428	1201139-09	01/26/12 07:21	37.20	35.00
GW0430	1201139-11	01/26/12 07:21	37.60	35.00
Blank	2A24022-BLK1	01/26/12 07:21	35.00	35.00
LCS	2A24022-BS1	01/26/12 07:21	35.00	35.00
GW0376	2A24022-MS1	01/26/12 07:21	37.15	35.00
GW0376	2A24022-MSD1	01/26/12 07:21	37.62	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A30024 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0404	1201151-01	01/31/12 07:15	37.24	35.00
GW0410	1201151-03	01/31/12 07:15	37.36	35.00
GW0429	1201151-05	01/31/12 07:15	36.75	35.00
GW0466	1201193-01	01/31/12 07:15	37.33	35.00
GW0467	1201193-03	01/31/12 07:15	37.33	35.00
GW0468	1201193-05	01/31/12 07:15	36.84	35.00
GW0472	1201193-07	01/31/12 07:15	37.17	35.00
GW0475	1201193-09	01/31/12 07:15	36.69	35.00
GW0493	1201193-11	01/31/12 07:15	36.92	35.00
Blank	2A30024-BLK1	01/31/12 07:15	35.00	35.00
LCS	2A30024-BS1	01/31/12 07:15	35.00	35.00
LCS Dup	2A30024-BSD1	01/31/12 07:15	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2A24022-BLK1	File ID:	013R0101.D
Sampled:		Prepared:	01/26/12 07:21	Analyzed:	01/27/12 17:44
Solids:		Preparation:	EDB	Dilution:	

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2A30024-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	01/31/12 07:15	Analyzed:	01/31/12 11:01
Solids:		Preparation:	EDB	Dilution:	

Batch: 2A30024 Sequence: 2B03413 Calibration: 2031002 Instrument: GL-ECD2

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

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03112	Instrument:	GL-ECD2
Calibration:	2031002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12A0603	EDB ICAL 1 (0.02ppb)	2A03112-CAL1	002R0101.D	01/27/12 13:49
12A0603	EDB ICAL 1 (0.02ppb)	2A03112-CAL1	002F0101.D	01/27/12 13:49
12A0604	EDB ICAL 2 (0.03ppb)	2A03112-CAL2	003F0101.D	01/27/12 14:10
12A0604	EDB ICAL 2 (0.03ppb)	2A03112-CAL2	003R0101.D	01/27/12 14:10
12A0605	EDB ICAL 3 (0.05ppb)	2A03112-CAL3	004F0101.D	01/27/12 14:32
12A0605	EDB ICAL 3 (0.05ppb)	2A03112-CAL3	004R0101.D	01/27/12 14:32
12A0606	EDB ICAL 4 (0.10ppb)	2A03112-CAL4	005R0101.D	01/27/12 14:53
12A0606	EDB ICAL 4 (0.10ppb)	2A03112-CAL4	005F0101.D	01/27/12 14:53
12A0607	EDB ICAL 5 (0.15ppb)	2A03112-CAL5	006R0101.D	01/27/12 15:14
12A0607	EDB ICAL 5 (0.15ppb)	2A03112-CAL5	006F0101.D	01/27/12 15:14
12A0608	EDB ICAL 6 (0.2ppb)	2A03112-CAL6	007F0101.D	01/27/12 15:35
12A0608	EDB ICAL 6 (0.2ppb)	2A03112-CAL6	007R0101.D	01/27/12 15:35
12A0609	EDB ICAL 7 (0.4ppb)	2A03112-CAL7	008F0101.D	01/27/12 15:56
12A0609	EDB ICAL 7 (0.4ppb)	2A03112-CAL7	008R0101.D	01/27/12 15:56
12A0610	EDB ICAL 8 (0.5ppb)	2A03112-CAL8	009F0101.D	01/27/12 16:18
12A0610	EDB ICAL 8 (0.5ppb)	2A03112-CAL8	009R0101.D	01/27/12 16:18
12A0611	EDB ICAL 9 (1.0ppb)	2A03112-CAL9	010R0101.D	01/27/12 16:39
12A0611	EDB ICAL 9 (1.0ppb)	2A03112-CAL9	010F0101.D	01/27/12 16:39

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2031002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	1/27/12_13:49	1/27/12_16:39

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	287100	0.03	202033.3	0.05	132560	0.1	91150	0.15	70960	0.2	63740
1,2-Dibromoethane [2C]	0.02	55400	0.03	49400	0.05	42020	0.1	38200	0.15	36873.33	0.2	35525
1,2-Dibromo-3-chloropropane	0.02	222850	0.03	171233.3	0.05	123480	0.1	93430	0.15	83613.34	0.2	77995
1,2-Dibromo-3-chloropropane [2C]	0.02	369350	0.03	271766.7	0.05	191340	0.1	123510	0.15	101186.7	0.2	88030

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2031002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	1/27/12 13:49	1/27/12 16:39

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.4	47855	0.5	43860	1	35967						
1,2-Dibromoethane [2C]	0.4	32047.5	0.5	32036	1	30092						
1,2-Dibromo-3-chloropropane	0.4	63770	0.5	59166	1	50409						
1,2-Dibromo-3-chloropropane [2C]	0.4	69602.5	0.5	65082	1	55224						

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2031002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	1/27/12 13:49	1/27/12 16:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	108358.4	78.61695	2.409222	0.349693		0.9996656	0.995	
1,2-Dibromoethane [2C]	39065.98	21.78865	2.283444	0.2902418	0.9990539		0.995	
1,2-Dibromo-3-chloropropane	105105.2	54.98381	8.503667	2.539815E-02		0.999749	0.995	
1,2-Dibromo-3-chloropropane [2C]	148343.5	73.15266	8.690889	2.265177E-02	0.997792		0.995	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2031002
Lab File ID:	011F0101.D	Calibration Date:	01/27/12 13:49
Sequence:	2A03112	Injection Date:	01/27/12
Lab Sample ID:	2A03112-ICV1	Injection Time:	17:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4983	108358.4	44292		-0.3	20
1,2-Dibromoethane [2C]	L	0.5000	0.5321	39065.98	33180		6.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2031002
Lab File ID:	012F0101.D	Calibration Date:	01/27/12 13:49
Sequence:	2B03207	Injection Date:	01/27/12
Lab Sample ID:	2B03207-CCV1	Injection Time:	17:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4957	108358.4	44134		-0.9	20
1,2-Dibromoethane [2C]	L	0.5000	0.5127	39065.98	32036		2.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2031002
Lab File ID:	026F0101.D	Calibration Date:	01/27/12 13:49
Sequence:	2B03207	Injection Date:	01/27/12
Lab Sample ID:	2B03207-CCV2	Injection Time:	22:19

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4758	108358.4	42926		-4.8	20
1,2-Dibromoethane [2C]	L	0.5000	0.4905	39065.98	30720		-1.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2031002
Lab File ID:	031F0101.D	Calibration Date:	01/27/12 13:49
Sequence:	2B03207	Injection Date:	01/28/12
Lab Sample ID:	2B03207-CCV3	Injection Time:	00:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5027	108358.4	44556		0.5	20
1,2-Dibromoethane [2C]	L	0.5000	0.4958	39065.98	31030		-0.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2031002
Lab File ID:	002F0101.D	Calibration Date:	01/27/12 13:49
Sequence:	2B03413	Injection Date:	01/31/12
Lab Sample ID:	2B03413-CCV1	Injection Time:	10:40

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5204	108358.4	45624		4.1	20
1,2-Dibromoethane [2C]	L	0.5000	0.5159	39065.98	32224		3.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2031002
Lab File ID:	016F0101.D	Calibration Date:	01/27/12 13:49
Sequence:	2B03413	Injection Date:	01/31/12
Lab Sample ID:	2B03413-CCV2	Injection Time:	16:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4729	108358.4	42748		-5.4	20
1,2-Dibromoethane [2C]	L	0.5000	0.5114	39065.98	31960		2.3	20

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

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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
GW0375	01/23/12 09:12	01/24/12 08:45	01/26/12 07:21	N/A	14.00	01/27/12 19:09	4.37	14.00	
GW0376	01/23/12 12:46	01/24/12 08:45	01/26/12 07:21	N/A	14.00	01/27/12 19:30	4.24	14.00	
GW0377	01/23/12 11:16	01/24/12 08:45	01/26/12 07:21	N/A	14.00	01/27/12 20:33	4.35	14.00	
GW0397	01/23/12 13:48	01/24/12 08:45	01/26/12 07:21	N/A	14.00	01/27/12 20:54	4.25	14.00	
GW0398	01/23/12 10:55	01/24/12 08:45	01/26/12 07:21	N/A	14.00	01/27/12 21:16	4.39	14.00	
GW0378	01/23/12 14:10	01/25/12 07:00	01/26/12 07:21	N/A	14.00	01/27/12 21:37	4.27	14.00	
GW0379	01/24/12 09:10	01/25/12 07:00	01/26/12 07:21	N/A	14.00	01/27/12 21:58	3.49	14.00	
GW0380	01/24/12 09:10	01/25/12 07:00	01/26/12 07:21	N/A	14.00	01/27/12 22:40	3.52	14.00	
GW0396	01/23/12 16:45	01/25/12 07:00	01/26/12 07:21	N/A	14.00	01/27/12 23:02	4.22	14.00	
GW0428	01/24/12 14:00	01/25/12 07:00	01/26/12 07:21	N/A	14.00	01/27/12 23:23	3.35	14.00	
GW0430	01/24/12 11:21	01/25/12 07:00	01/26/12 07:21	N/A	14.00	01/27/12 23:44	3.47	14.00	
GW0404	01/25/12 14:41	01/26/12 08:30	01/31/12 07:15	N/A	14.00	01/31/12 12:05	5.85	14.00	
GW0410	01/24/12 14:59	01/26/12 08:30	01/31/12 07:15	N/A	14.00	01/31/12 13:32	6.90	14.00	
GW0429	01/25/12 10:21	01/26/12 08:30	01/31/12 07:15	N/A	14.00	01/31/12 13:49	6.10	14.00	
GW0466	01/26/12 13:52	01/27/12 08:20	01/31/12 07:15	N/A	14.00	01/31/12 14:10	4.97	14.00	
GW0467	01/26/12 13:52	01/27/12 08:20	01/31/12 07:15	N/A	14.00	01/31/12 14:32	4.99	14.00	
GW0468	01/26/12 11:32	01/27/12 08:20	01/31/12 07:15	N/A	14.00	01/31/12 14:53	5.10	14.00	
GW0472	01/26/12 09:37	01/27/12 08:20	01/31/12 07:15	N/A	14.00	01/31/12 15:14	5.19	14.00	
GW0475	01/26/12 14:03	01/27/12 08:20	01/31/12 07:15	N/A	14.00	01/31/12 15:35	5.02	14.00	
GW0493	01/25/12 15:47	01/27/12 08:20	01/31/12 07:15	N/A	14.00	01/31/12 15:57	5.97	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A24022-BS1	File ID:	014F0101.D
Sampled:		Prepared:		Analyzed:	01/27/12 18:05
Solids:		Preparation:	EDB	Dilution:	

Batch:	2A24022	Sequence:	2B03207	Calibration:	2031002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5052	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A24022-BS1	File ID:	014R0101.D
Sampled:		Prepared:		Analyzed:	01/27/12 18:05
Solids:		Preparation:	EDB	Dilution:	

Batch:	2A24022	Sequence:	2B03207	Calibration:	2031002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5260	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2A24022-MS1	File ID:	019F0101.D
Sampled:		Prepared:		Analyzed:	01/27/12 19:51
Solids:		Preparation:	EDB	Dilution:	

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4633	0.00942	0.0188	0.0283	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_041
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2A24022-MS1	File ID:	019R0101.D
Sampled:		Prepared:		Analyzed:	01/27/12 19:51
Solids:		Preparation:	EDB	Dilution:	

Batch: 2A24022 Sequence: 2B03207 Calibration: 2031002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4680	0.00942	0.0188	0.0283	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2A24022-MSD1
File ID: 020F0101.D
Sampled:
Prepared:
Analyzed: 01/27/12 20:12
Solids:
Preparation: EDB
Dilution:
Batch: 2A24022
Sequence: 2B03207
Calibration: 2031002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4499	0.00930	0.0186	0.0279	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A24022-MSD1	File ID:	020R0101.D
Sampled:		Prepared:		Analyzed:	01/27/12 20:12
Solids:		Preparation:	EDB	Dilution:	

Batch:	2A24022	Sequence:	2B03207	Calibration:	2031002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4648	0.00930	0.0186	0.0279	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2A30024-BS1
File ID: 004F0101.D
Sampled:
Prepared:
Analyzed: 01/31/12 11:22
Solids:
Preparation: EDB
Dilution:
Batch: 2A30024
Sequence: 2B03413
Calibration: 2031002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5121	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30024-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	01/31/12 11:22
Solids:		Preparation:	EDB	Dilution:	

Batch:	2A30024	Sequence:	2B03413	Calibration:	2031002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5311	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30024-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	01/31/12 11:44
Solids:		Preparation:	EDB	Dilution:	

Batch:	2A30024	Sequence:	2B03413	Calibration:	2031002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5104	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A30024-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	01/31/12 11:44
Solids:		Preparation:	EDB	Dilution:	

Batch:	2A30024	Sequence:	2B03413	Calibration:	2031002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5324	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0397

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201137-07

Date(s) Analyzed: 01/27/2012 01/27/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.199	
	2	2.29	2.25	2.31	0.236	17

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0398

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201137-09

Date(s) Analyzed: 01/27/2012 01/27/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.322	
	2	2.29	2.25	2.31	0.331	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0396

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201139-07

Date(s) Analyzed: 01/27/2012 01/27/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	1.28	
	2	2.29	2.25	2.31	1.25	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2A24022-BS1 Date(s) Analyzed: 01/27/2012 01/27/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.5052	
	2	2.29	2.25	2.31	0.5260	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2A24022-MS1

Date(s) Analyzed: 01/27/2012 01/27/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.4633	
	2	2.29	2.25	2.31	0.4680	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2A24022-MSD1 Date(s) Analyzed: 01/27/2012 01/27/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.4499	
	2	2.29	2.25	2.31	0.4648	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0404

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201151-01 Date(s) Analyzed: 01/31/2012 01/31/2012

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	2.40	2.38	2.44	0.0290	
	2	2.27	2.25	2.31	0.0214	30

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0466

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201193-01

Date(s) Analyzed: 01/31/2012 01/31/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.41	2.38	2.44	0.166	
	2	2.28	2.25	2.31	0.127	26

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0467

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201193-03

Date(s) Analyzed: 01/31/2012 01/31/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.41	2.38	2.44	0.175	
	2	2.28	2.25	2.31	0.120	37

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0472

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1201193-07

Date(s) Analyzed: 01/31/2012 01/31/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.41	2.38	2.44	0.429	
	2	2.28	2.25	2.31	0.476	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2A30024-BS1 Date(s) Analyzed: 01/31/2012 01/31/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.41	2.38	2.44	0.5121	
	2	2.27	2.25	2.31	0.5311	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2A30024-BSD1 Date(s) Analyzed: 01/31/2012 01/31/2012

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	2.40	2.38	2.44	0.5104	
	2	2.27	2.25	2.31	0.5324	4

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0375

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 09:12
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-01
Received: 01/24/12 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44500	1000	2000	5000	1		SW6010B	2A31001	02/01/12 17:47
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2A31001	02/01/12 17:47
7439-95-4	Magnesium	5440	1000	3000	5000	1		SW6010B	2A31001	02/01/12 17:47
7440-09-7	Potassium	2250	1000	3000	5000	1	J	SW6010B	2A31001	02/01/12 17:47
7440-23-5	Sodium	22700	1000	3000	5000	1		SW6010B	2A31001	02/01/12 17:47

ANALYSIS DATA SHEET

GW0375

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 09:12
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-02
Received: 01/24/12 08:45

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	2B08006	02/08/12 20:25
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 20:25

ANALYSIS DATA SHEET

GW0376

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 12:46
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-03
Received: 01/24/12 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41600	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:11
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:11
7439-95-4	Magnesium	5370	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:11
7440-09-7	Potassium	2200	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:11
7440-23-5	Sodium	25200	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:11

ANALYSIS DATA SHEET

GW0376

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-04
Sampled:	01/23/12 12:46	Received:	01/24/12 08:45
% 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	2B08006	02/08/12 20:30
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 20:30

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-05
Sampled:	01/23/12 11:16	Received:	01/24/12 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	32600	1000	2000	5000	1		SW6010B	2A31001	02/01/12 17:51
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2A31001	02/01/12 17:51
7439-95-4	Magnesium	7790	1000	3000	5000	1		SW6010B	2A31001	02/01/12 17:51
7440-09-7	Potassium	6420	1000	3000	5000	1		SW6010B	2A31001	02/01/12 17:51
7440-23-5	Sodium	36900	1000	3000	5000	1		SW6010B	2A31001	02/01/12 17:51

ANALYSIS DATA SHEET

GW0377

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-06
Sampled:	01/23/12 11:16	Received:	01/24/12 08:45
% 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	2B08006	02/08/12 20:48
7439-96-5	Manganese (dissolved)	24.0	3.00	6.00	15.0	1		SW6010B	2B08006	02/08/12 20:48

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-07
Sampled:	01/23/12 13:48	Received:	01/24/12 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	40800	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:34
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:34
7439-95-4	Magnesium	6080	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:34
7440-09-7	Potassium	2280	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:34
7440-23-5	Sodium	24600	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:34

ANALYSIS DATA SHEET

GW0397

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-08
Sampled:	01/23/12 13:48	Received:	01/24/12 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	129	30.0	60.0	100	1		SW6010B	2B08006	02/08/12 20:53
7439-96-5	Manganese (dissolved)	735	3.00	6.00	15.0	1		SW6010B	2B08006	02/08/12 20:53

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09
Sampled:	01/23/12 10:55	Received:	01/24/12 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	43800	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:38
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:38
7439-95-4	Magnesium	5900	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:38
7440-09-7	Potassium	2240	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:38
7440-23-5	Sodium	25400	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:38

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-10
Sampled:	01/23/12 10:55	Received:	01/24/12 08:45
% 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	2B08006	02/08/12 20:57
7439-96-5	Manganese (dissolved)	125	3.00	6.00	15.0	1		SW6010B	2B08006	02/08/12 20:57

ANALYSIS DATA SHEET

GW0378

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 14:10
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-01
Received: 01/25/12 07:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	48500	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:43
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:43
7439-95-4	Magnesium	5440	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:43
7440-09-7	Potassium	3500	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:43
7440-23-5	Sodium	29500	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:43

ANALYSIS DATA SHEET

GW0378

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-02
Sampled:	01/23/12 14:10	Received:	01/25/12 07:00
% 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	2B08006	02/08/12 21:02
7439-96-5	Manganese (dissolved)	7.51	3.00	6.00	15.0	1	J	SW6010B	2B08006	02/08/12 21:02

ANALYSIS DATA SHEET

GW0379

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 09:10
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-03
Received: 01/25/12 07:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	40000	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:47
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:47
7439-95-4	Magnesium	7630	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:47
7440-09-7	Potassium	3810	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:47
7440-23-5	Sodium	23200	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:47

ANALYSIS DATA SHEET

GW0379

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-04
Sampled:	01/24/12 09:10	Received:	01/25/12 07:00
% 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	2B08006	02/08/12 21:06
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 21:06

ANALYSIS DATA SHEET

GW0380

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 09:10
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-05
Received: 01/25/12 07:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41700	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:52
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:52
7439-95-4	Magnesium	7840	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:52
7440-09-7	Potassium	4170	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:52
7440-23-5	Sodium	24900	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:52

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-06
Sampled:	01/24/12 09:10	Received:	01/25/12 07:00
% 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	2B08006	02/08/12 21:11
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 21:11

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-07
Sampled:	01/23/12 16:45	Received:	01/25/12 07:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	47900	1000	2000	5000	1		SW6010B	2B02007	02/08/12 18:56
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 18:56
7439-95-4	Magnesium	6500	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:56
7440-09-7	Potassium	2400	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 18:56
7440-23-5	Sodium	26800	1000	3000	5000	1		SW6010B	2B02007	02/08/12 18:56

ANALYSIS DATA SHEET

GW0396

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-08
Sampled:	01/23/12 16:45	Received:	01/25/12 07:00
% 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	2B08006	02/08/12 21:15
7439-96-5	Manganese (dissolved)	70.4	3.00	6.00	15.0	1		SW6010B	2B08006	02/08/12 21:15

ANALYSIS DATA SHEET

GW0428

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 14:00
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-09
Received: 01/25/12 07:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	123000	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:00
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:00
7439-95-4	Magnesium	16600	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:00
7440-09-7	Potassium	3760	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:00
7440-23-5	Sodium	33800	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:00

ANALYSIS DATA SHEET

GW0428

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-10
Sampled:	01/24/12 14:00	Received:	01/25/12 07:00
% 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	2B08006	02/08/12 21:20
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 21:20

ANALYSIS DATA SHEET

GW0430

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 11:21
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-11
Received: 01/25/12 07:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	51300	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:05
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:05
7439-95-4	Magnesium	7100	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:05
7440-09-7	Potassium	2610	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:05
7440-23-5	Sodium	25700	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:05

ANALYSIS DATA SHEET

GW0430

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-12
Sampled:	01/24/12 11:21	Received:	01/25/12 07:00
% 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	2B08006	02/08/12 21:37
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 21:37

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01
Sampled:	01/25/12 14:41	Received:	01/26/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	43200	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:22
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:22
7439-95-4	Magnesium	5850	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:22
7440-09-7	Potassium	2510	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:22
7440-23-5	Sodium	24400	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:22

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-02
Sampled:	01/25/12 14:41	Received:	01/26/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 21:41
7439-96-5	Manganese (dissolved)	7.28	3.00	6.00	15.0	1	J	SW6010B	2B08006	02/08/12 21:41

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-03
Sampled:	01/24/12 14:59	Received:	01/26/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	95300	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:26
7439-95-4	Magnesium	13800	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:26
7440-09-7	Potassium	3380	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:26
7440-23-5	Sodium	32100	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:26

ANALYSIS DATA SHEET

GW0410

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-04
Sampled:	01/24/12 14:59	Received:	01/26/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 21:46
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 21:46

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05
Sampled:	01/25/12 10:21	Received:	01/26/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	66100	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:31
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:31
7439-95-4	Magnesium	9060	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:31
7440-09-7	Potassium	3060	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:31
7440-23-5	Sodium	28800	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:31

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-06
Sampled:	01/25/12 10:21	Received:	01/26/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 21:50
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 21:50

ANALYSIS DATA SHEET

GW0466

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/12 13:52
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201193-01
Received: 01/27/12 08:20

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	72700	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:35
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:35
7439-95-4	Magnesium	9680	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:35
7440-09-7	Potassium	2900	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:35
7440-23-5	Sodium	30500	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:35

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-02
Sampled:	01/26/12 13:52	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	70.7	30.0	60.0	100	1	J	SW6010B	2B08006	02/08/12 21:55
7439-96-5	Manganese (dissolved)	171	3.00	6.00	15.0	1		SW6010B	2B08006	02/08/12 21:55

ANALYSIS DATA SHEET

GW0467

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/12 13:52
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201193-03
Received: 01/27/12 08:20

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	77000	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:40
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:40
7439-95-4	Magnesium	10300	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:40
7440-09-7	Potassium	3100	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:40
7440-23-5	Sodium	32500	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:40

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-04
Sampled:	01/26/12 13:52	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	70.6	30.0	60.0	100	1	J	SW6010B	2B08006	02/08/12 21:59
7439-96-5	Manganese (dissolved)	171	3.00	6.00	15.0	1		SW6010B	2B08006	02/08/12 21:59

ANALYSIS DATA SHEET

GW0468

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/12 11:32
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201193-05
Received: 01/27/12 08:20

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33200	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:44
7439-95-4	Magnesium	4470	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:44
7440-09-7	Potassium	2000	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:44
7440-23-5	Sodium	22100	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:44

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-06
Sampled:	01/26/12 11:32	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 22:03
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 22:03

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07
Sampled:	01/26/12 09:37	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	49100	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:48
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:48
7439-95-4	Magnesium	6490	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:48
7440-09-7	Potassium	2470	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:48
7440-23-5	Sodium	26900	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:48

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-08
Sampled:	01/26/12 09:37	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 22:08
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 22:08

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09
Sampled:	01/26/12 14:03	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	37100	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:53
7439-95-4	Magnesium	5020	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:53
7440-09-7	Potassium	2180	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:53
7440-23-5	Sodium	24600	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:53

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-10
Sampled:	01/26/12 14:03	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 22:12
7439-96-5	Manganese (dissolved)	5.40	3.00	6.00	15.0	1	J	SW6010B	2B08006	02/08/12 22:12

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11
Sampled:	01/25/12 15:47	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36000	1000	2000	5000	1		SW6010B	2B02007	02/08/12 19:57
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2B02007	02/08/12 19:57
7439-95-4	Magnesium	4680	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:57
7440-09-7	Potassium	2060	1000	3000	5000	1	J	SW6010B	2B02007	02/08/12 19:57
7440-23-5	Sodium	26500	1000	3000	5000	1		SW6010B	2B02007	02/08/12 19:57

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-12
Sampled:	01/25/12 15:47	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2B08006	02/08/12 22:17
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2B08006	02/08/12 22:17

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_041
Project: Kirtland AFB 2011
Calibration: 2033001
Sequence: 2B03302

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2B03302-ICV1	Calcium	50000	52560	105	ug/L	+/- 10.00%
	Lead	1000	984.6	98.5	ug/L	+/- 10.00%
	Magnesium	50000	50260	101	ug/L	+/- 10.00%
	Potassium	10000	9399	94.0	ug/L	+/- 10.00%
	Sodium	50000	51190	102	ug/L	+/- 10.00%
2B03302-CCV1	Calcium	50000	52090	104	ug/L	+/- 10.00%
	Lead	1000	987.9	98.8	ug/L	+/- 10.00%
	Magnesium	50000	50350	101	ug/L	+/- 10.00%
	Potassium	10000	9955	99.6	ug/L	+/- 10.00%
	Sodium	50000	51500	103	ug/L	+/- 10.00%
2B03302-CCV2	Calcium	50000	52700	105	ug/L	+/- 10.00%
	Lead	1000	1004	100	ug/L	+/- 10.00%
	Magnesium	50000	51070	102	ug/L	+/- 10.00%
	Potassium	10000	10100	101	ug/L	+/- 10.00%
	Sodium	50000	52400	105	ug/L	+/- 10.00%
2B03302-CCV3	Calcium	50000	51660	103	ug/L	+/- 10.00%
	Lead	1000	977.2	97.7	ug/L	+/- 10.00%
	Magnesium	50000	49940	99.9	ug/L	+/- 10.00%
	Potassium	10000	9964	99.6	ug/L	+/- 10.00%
	Sodium	50000	51500	103	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_041
Project: Kirtland AFB 2011
Calibration: 2039002
Sequence: 2B03907

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2B03907-ICV1	Calcium	50000	53090	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10460	105	ug/L	+/- 10.00%
	Lead	1000	984.4	98.4	ug/L	+/- 10.00%
	Magnesium	50000	51960	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1017	102	ug/L	+/- 10.00%
	Potassium	10000	9258	92.6	ug/L	+/- 10.00%
	Sodium	50000	51360	103	ug/L	+/- 10.00%
2B03907-CCV1	Calcium	50000	52880	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10540	105	ug/L	+/- 10.00%
	Lead	1000	987.1	98.7	ug/L	+/- 10.00%
	Magnesium	50000	52260	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	993.8	99.4	ug/L	+/- 10.00%
	Potassium	10000	9996	100	ug/L	+/- 10.00%
	Sodium	50000	52050	104	ug/L	+/- 10.00%
2B03907-CCV7	Calcium	50000	53680	107	ug/L	+/- 10.00%
	Lead	1000	1004	100	ug/L	+/- 10.00%
	Magnesium	50000	53420	107	ug/L	+/- 10.00%
	Potassium	10000	10130	101	ug/L	+/- 10.00%
	Sodium	50000	53090	106	ug/L	+/- 10.00%
2B03907-CCV8	Calcium	50000	52820	106	ug/L	+/- 10.00%
	Lead	1000	1011	101	ug/L	+/- 10.00%
	Magnesium	50000	50580	101	ug/L	+/- 10.00%
	Potassium	10000	9920	99.2	ug/L	+/- 10.00%
	Sodium	50000	52170	104	ug/L	+/- 10.00%
2B03907-CCV9	Calcium	50000	51240	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10160	102	ug/L	+/- 10.00%
	Lead	1000	1020	102	ug/L	+/- 10.00%
	Magnesium	50000	49780	99.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.4	99.0	ug/L	+/- 10.00%
	Potassium	10000	9923	99.2	ug/L	+/- 10.00%
	Sodium	50000	53150	106	ug/L	+/- 10.00%
2B03907-CCVA	Iron (dissolved)	10000	10240	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1022	102	ug/L	+/- 10.00%
2B03907-CCVB	Iron (dissolved)	10000	10580	106	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1018	102	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2033001

Sequence: 2B03302

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2B03302-CRL1	Calcium	2000	2094	105	ug/L	80 - 120
	Lead	3.000	2.804	93.5	ug/L	80 - 120
	Magnesium	3000	3090	103	ug/L	80 - 120
	Potassium	3000	2998	99.9	ug/L	80 - 120
	Sodium	3000	3174	106	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2039002

Sequence: 2B03907

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2B03907-CRL1	Calcium	2000	2164	108	ug/L	80 - 120
	Iron (dissolved)	60.00	61.63	103	ug/L	80 - 120
	Lead	3.000	2.909	97.0	ug/L	80 - 120
	Magnesium	3000	3236	108	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.301	105	ug/L	80 - 120
	Potassium	3000	2928	97.6	ug/L	80 - 120
	Sodium	3000	3042	101	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2B03302
Calibration: 2033001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B03302-ICB1	Calcium	4.820	1000	5000	ug/L	U	SW6010B
	Lead	0.3068	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.990	1000	5000	ug/L	U	SW6010B
	Potassium	30.72	1000	5000	ug/L	U	SW6010B
	Sodium	91.09	1000	5000	ug/L	U	SW6010B
2B03302-CCB1	Calcium	-1.94	1000	5000	ug/L	U	SW6010B
	Lead	0.117	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.58	1000	5000	ug/L	U	SW6010B
	Potassium	7.62	1000	5000	ug/L	U	SW6010B
	Sodium	1.21	1000	5000	ug/L	U	SW6010B
2A31001-BLK1	Calcium	6.07	1000	5000	ug/L	U	SW6010B
	Lead	-0.142	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.33	1000	5000	ug/L	U	SW6010B
	Potassium	37.6	1000	5000	ug/L	U	SW6010B
	Sodium	58.0	1000	5000	ug/L	U	SW6010B
2B03302-CCB2	Calcium	3.46	1000	5000	ug/L	U	SW6010B
	Lead	0.909	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.50	1000	5000	ug/L	U	SW6010B
	Potassium	8.75	1000	5000	ug/L	U	SW6010B
	Sodium	-14.0	1000	5000	ug/L	U	SW6010B
2B03302-CCB3	Calcium	3.71	1000	5000	ug/L	U	SW6010B
	Lead	0.593	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.42	1000	5000	ug/L	U	SW6010B
	Potassium	31.6	1000	5000	ug/L	U	SW6010B
	Sodium	29.9	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2B03907
Calibration: 2039002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B03907-ICB1	Calcium	-1.450	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	3.375	30.0	100	ug/L	U	SW6010B
	Lead	0.9121	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.030	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.05219	3.00	15.0	ug/L	U	SW6010B
	Potassium	-33.26	1000	5000	ug/L	U	SW6010B
	Sodium	-34.04	1000	5000	ug/L	U	SW6010B
2B03907-CCB1	Calcium	2.65	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.909	30.0	100	ug/L	U	SW6010B
	Lead	-0.0442	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.48	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.105	3.00	15.0	ug/L	U	SW6010B
	Potassium	-60.0	1000	5000	ug/L	U	SW6010B
	Sodium	50.6	1000	5000	ug/L	U	SW6010B
2B03907-CCB7	Calcium	11.2	1000	5000	ug/L	U	SW6010B
	Lead	0.420	1.50	3.00	ug/L	U	SW6010B
	Magnesium	12.7	1000	5000	ug/L	U	SW6010B
	Potassium	-29.7	1000	5000	ug/L	U	SW6010B
	Sodium	-39.8	1000	5000	ug/L	U	SW6010B
2B02007-BLK1	Calcium	12.3	1000	5000	ug/L	U	SW6010B
	Lead	0.708	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.56	1000	5000	ug/L	U	SW6010B
	Potassium	-14.9	1000	5000	ug/L	U	SW6010B
	Sodium	-30.4	1000	5000	ug/L	U	SW6010B
2B03907-CCB8	Calcium	-2.69	1000	5000	ug/L	U	SW6010B
	Lead	0.331	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.82	1000	5000	ug/L	U	SW6010B
	Potassium	-45.6	1000	5000	ug/L	U	SW6010B
	Sodium	-30.0	1000	5000	ug/L	U	SW6010B
2B03907-CCB9	Calcium	-4.18	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-2.44	30.0	100	ug/L	U	SW6010B
	Lead	-0.531	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.74	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2B03907
Calibration: 2039002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B03907-CCB9	Manganese (dissolved)	0.0709	3.00	15.0	ug/L	U	SW6010B
	Potassium	2.96	1000	5000	ug/L	U	SW6010B
	Sodium	-62.8	1000	5000	ug/L	U	SW6010B
2B08006-BLK1	Iron (dissolved)	1.06	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.00289	3.00	15.0	ug/L	U	SW6010B
2B03907-CCBA	Iron (dissolved)	-2.84	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.115	3.00	15.0	ug/L	U	SW6010B
2B03907-CCBB	Iron (dissolved)	-2.42	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0999	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2033001
Sequence: 2B03302

Lab Sample ID	Analyte	True	Found	%R	Units
2B03302-IFA1	Calcium	500000	507,540.00	102	ug/L
	Lead		0.04		ug/L
	Magnesium	500000	489,040.00	97.8	ug/L
	Potassium		-10.09		ug/L
	Sodium		60.12		ug/L
2B03302-IFB1	Calcium	500000	505,570.00	101	ug/L
	Lead	50.00	48.69	97.4	ug/L
	Magnesium	500000	493,350.00	98.7	ug/L
	Potassium		20.38		ug/L
	Sodium		108.07		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2039002
Sequence: 2B03907

Lab Sample ID	Analyte	True	Found	%R	Units
2B03907-IFA1	Calcium	500000	496,570.00	99.3	ug/L
	Iron (dissolved)	200000	204,090.00	102	ug/L
	Lead		0.44		ug/L
	Magnesium	500000	497,610.00	99.5	ug/L
	Manganese (dissolved)		-4.05		ug/L
	Potassium		-51.18		ug/L
	Sodium		78.74		ug/L
2B03907-IFB1	Calcium	500000	529,370.00	106	ug/L
	Iron (dissolved)	200000	211,420.00	106	ug/L
	Lead	50.00	50.43	101	ug/L
	Magnesium	500000	519,780.00	104	ug/L
	Manganese (dissolved)	500.0	488.09	97.6	ug/L
	Potassium		-54.68		ug/L
	Sodium		106.00		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2B02007

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	41600	45580	79.7	4x	80 - 120
Lead	250.0	ND	252.6	101		80 - 120
Magnesium	5000	5367	10470	102		80 - 120
Potassium	5000	2202	7151	99.0		80 - 120
Sodium	5000	25150	30240	102		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	44570	59.4	2.25	4x	20	80 - 120
Lead	250.0	252.4	101	0.0832		20	80 - 120
Magnesium	5000	10270	98.0	1.97		20	80 - 120
Potassium	5000	7139	98.7	0.165		20	80 - 120
Sodium	5000	30690	111	1.46		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2B08006

% Solids:

Source Sample Name: **1201137-04**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	1063	106		80 - 120
Manganese (dissolved)	500.0	ND	507.0	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	1081	108	1.74		20	80 - 120
Manganese (dissolved)	500.0	514.6	103	1.49		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0376

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2B02007-PS1
Batch: 2B02007
Lab Source ID: 1201137-03
Preparation: MET_3005A
Initial/Final: 50 mL / 50 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	46920	41600	5000	107	80 - 120
Lead	268.2	ND	250.0	107	80 - 120
Magnesium	10740	5367	5000	108	80 - 120
Potassium	7413	2202	5000	104	80 - 120
Sodium	30600	25150	5000	109	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A31001	Laboratory ID:	2A31001-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	5530	111	80 - 120
Lead	250.0	256.7	103	80 - 120
Magnesium	5000	5322	106	80 - 120
Potassium	5000	5114	102	80 - 120
Sodium	5000	5288	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B02007	Laboratory ID:	2B02007-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	5605	112	80 - 120
Lead	250.0	253.4	101	80 - 120
Magnesium	5000	5493	110	80 - 120
Potassium	5000	4991	99.8	80 - 120
Sodium	5000	5164	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B08006	Laboratory ID:	2B08006-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	1062	106	80 - 120
Manganese (dissolved)	500.0	514.9	103	80 - 120

SERIAL DILUTION

SW6010B

GW0376

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2B03907
Preparation: MET_3005A

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2B02007-DUP1
Lab Source ID: 1201137-03
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	41599	41466	-0.32		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	5367.3	5492	2.32		SW6010B	10.00
Potassium	2202.4	ND			SW6010B	10.00
Sodium	25150	26050	3.58		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0376

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2B03907
Preparation: MET_3005A

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2B08006-DUP1
Lab Source ID: 1201137-04
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	ND	ND			SW6010B	10.00

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_041

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_041

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
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
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
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
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
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_041

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
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
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_041

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
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
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_041

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_041

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	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				
Lead	220.3	0.0000000				
Magnesium	279.0	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				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_041

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	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
Lead	15	10000	P
Magnesium	15	500000	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
Manganese	15	10000	P
Potassium	15	100000	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
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A31001 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/31/12 07:44	50.00	50.00
GW0377	1201137-05	01/31/12 07:44	50.00	50.00
Blank	2A31001-BLK1	01/31/12 07:44	50.00	50.00
LCS	2A31001-BS1	01/31/12 07:44	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B02007 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0376	1201137-03	02/02/12 10:46	50.00	50.00
GW0397	1201137-07	02/02/12 10:46	50.00	50.00
GW0398	1201137-09	02/02/12 10:46	50.00	50.00
GW0378	1201139-01	02/02/12 10:46	50.00	50.00
GW0379	1201139-03	02/02/12 10:46	50.00	50.00
GW0380	1201139-05	02/02/12 10:46	50.00	50.00
GW0396	1201139-07	02/02/12 10:46	50.00	50.00
GW0428	1201139-09	02/02/12 10:46	50.00	50.00
GW0430	1201139-11	02/02/12 10:46	50.00	50.00
GW0404	1201151-01	02/02/12 10:46	50.00	50.00
GW0410	1201151-03	02/02/12 10:46	50.00	50.00
GW0429	1201151-05	02/02/12 10:46	50.00	50.00
GW0466	1201193-01	02/02/12 10:46	50.00	50.00
GW0467	1201193-03	02/02/12 10:46	50.00	50.00
GW0468	1201193-05	02/02/12 10:46	50.00	50.00
GW0472	1201193-07	02/02/12 10:46	50.00	50.00
GW0475	1201193-09	02/02/12 10:46	50.00	50.00
GW0493	1201193-11	02/02/12 10:46	50.00	50.00
Blank	2B02007-BLK1	02/02/12 10:46	50.00	50.00
LCS	2B02007-BS1	02/02/12 10:46	50.00	50.00
GW0376	2B02007-DUP1	02/02/12 10:46	50.00	50.00
GW0376	2B02007-MS1	02/02/12 10:46	50.00	50.00
GW0376	2B02007-MSD1	02/02/12 10:46	50.00	50.00
GW0376	2B02007-PS1	02/02/12 10:46	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B08006 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-02	02/08/12 08:35	50.00	50.00
GW0376	1201137-04	02/08/12 08:35	50.00	50.00
GW0377	1201137-06	02/08/12 08:35	50.00	50.00
GW0397	1201137-08	02/08/12 08:35	50.00	50.00
GW0398	1201137-10	02/08/12 08:35	50.00	50.00
GW0378	1201139-02	02/08/12 08:35	50.00	50.00
GW0379	1201139-04	02/08/12 08:35	50.00	50.00
GW0380	1201139-06	02/08/12 08:35	50.00	50.00
GW0396	1201139-08	02/08/12 08:35	50.00	50.00
GW0428	1201139-10	02/08/12 08:35	50.00	50.00
GW0430	1201139-12	02/08/12 08:35	50.00	50.00
GW0404	1201151-02	02/08/12 08:35	50.00	50.00
GW0410	1201151-04	02/08/12 08:35	50.00	50.00
GW0429	1201151-06	02/08/12 08:35	50.00	50.00
GW0466	1201193-02	02/08/12 08:35	50.00	50.00
GW0467	1201193-04	02/08/12 08:35	50.00	50.00
GW0468	1201193-06	02/08/12 08:35	50.00	50.00
GW0472	1201193-08	02/08/12 08:35	50.00	50.00
GW0475	1201193-10	02/08/12 08:35	50.00	50.00
GW0493	1201193-12	02/08/12 08:35	50.00	50.00
Blank	2B08006-BLK1	02/08/12 08:35	50.00	50.00
LCS	2B08006-BS1	02/08/12 08:35	50.00	50.00
GW0376	2B08006-DUP1	02/08/12 08:35	50.00	50.00
GW0376	2B08006-MS1	02/08/12 08:35	50.00	50.00
GW0376	2B08006-MSD1	02/08/12 08:35	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03302	Instrument:	ME-ICP
Calibration:	2033001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2B03302-CAL1	020112A-001	02/01/12 13:37
Cal Standard	2B03302-CAL2	020112A-002	02/01/12 13:42
Cal Standard	2B03302-CAL3	020112A-003	02/01/12 13:46
Cal Standard	2B03302-CAL5	020112A-005	02/01/12 13:55
Cal Standard	2B03302-CAL6	020112A-006	02/01/12 14:00
Cal Standard	2B03302-CAL7	020112A-007	02/01/12 14:06
Cal Standard	2B03302-CAL8	020112A-008	02/01/12 14:11
Initial Cal Check	2B03302-ICV1	020112B-001	02/01/12 14:44
Initial Cal Blank	2B03302-ICB1	020112B-002	02/01/12 14:51
Instrument RL Check	2B03302-CRL1	020112B-003	02/01/12 14:55
Interference Check A	2B03302-IFA1	020112B-007	02/01/12 15:17
Interference Check B	2B03302-IFB1	020112B-008	02/01/12 15:22
Calibration Check	2B03302-CCV1	020112B-010	02/01/12 15:33
Calibration Blank	2B03302-CCB1	020112B-011	02/01/12 15:41
Blank	2A31001-BLK1	020112B-012	02/01/12 15:45
LCS	2A31001-BS1	020112B-013	02/01/12 15:50
Calibration Check	2B03302-CCV2	020112B-028	02/01/12 17:00
Calibration Blank	2B03302-CCB2	020112B-029	02/01/12 17:07
GW0375	1201137-01	020112B-038	02/01/12 17:47
GW0377	1201137-05	020112B-039	02/01/12 17:51
Calibration Check	2B03302-CCV3	020112B-040	02/01/12 17:57
Calibration Blank	2B03302-CCB3	020112B-041	02/01/12 18:04

ANALYSIS SEQUENCE SUMMARY
SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03907	Instrument:	ME-ICP
Calibration:	2039002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2B03907-CAL1	020812A-001	02/08/12 08:50
Cal Standard	2B03907-CAL1	020812A-001	02/08/12 08:50
Cal Standard	2B03907-CAL2	020812A-002	02/08/12 08:54
Cal Standard	2B03907-CAL2	020812A-002	02/08/12 08:54
Cal Standard	2B03907-CAL3	020812A-003	02/08/12 08:59
Cal Standard	2B03907-CAL3	020812A-003	02/08/12 08:59
Cal Standard	2B03907-CAL4	020812A-004	02/08/12 09:03
Cal Standard	2B03907-CAL5	020812A-005	02/08/12 09:08
Cal Standard	2B03907-CAL5	020812A-005	02/08/12 09:08
Cal Standard	2B03907-CAL6	020812A-006	02/08/12 09:14
Cal Standard	2B03907-CAL6	020812A-006	02/08/12 09:14
Cal Standard	2B03907-CAL7	020812A-007	02/08/12 09:19
Cal Standard	2B03907-CAL8	020812A-008	02/08/12 09:24
Initial Cal Check	2B03907-ICV1	020812B-001	02/08/12 09:54
Initial Cal Check	2B03907-ICV1	020812B-001	02/08/12 09:54
Initial Cal Blank	2B03907-ICB1	020812B-002	02/08/12 10:02
Initial Cal Blank	2B03907-ICB1	020812B-002	02/08/12 10:02
Instrument RL Check	2B03907-CRL1	020812B-004	02/08/12 10:12
Instrument RL Check	2B03907-CRL1	020812B-004	02/08/12 10:12
Interference Check A	2B03907-IFA1	020812B-007	02/08/12 10:28
Interference Check A	2B03907-IFA1	020812B-007	02/08/12 10:28
Interference Check B	2B03907-IFB1	020812B-008	02/08/12 10:33
Interference Check B	2B03907-IFB1	020812B-008	02/08/12 10:33
Calibration Check	2B03907-CCV1	020812B-010	02/08/12 10:46
Calibration Check	2B03907-CCV1	020812B-010	02/08/12 10:46
Calibration Blank	2B03907-CCB1	020812B-011	02/08/12 10:53
Calibration Blank	2B03907-CCB1	020812B-011	02/08/12 10:53
Calibration Check	2B03907-CCV7	020812E-033	02/08/12 17:49
Calibration Blank	2B03907-CCB7	020812E-034	02/08/12 17:56
Blank	2B02007-BLK1	020812E-035	02/08/12 18:00
LCS	2B02007-BS1	020812E-036	02/08/12 18:05
GW0376	1201137-03	020812E-037	02/08/12 18:11

ANALYSIS SEQUENCE SUMMARY
SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03907	Instrument:	ME-ICP
Calibration:	2039002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0376	2B02007-MS1	020812E-038	02/08/12 18:16
GW0376	2B02007-MSD1	020812E-039	02/08/12 18:20
GW0376	2B02007-PS1	020812E-040	02/08/12 18:24
GW0376	2B02007-DUP1	020812E-041	02/08/12 18:29
GW0397	1201137-07	020812E-042	02/08/12 18:34
GW0398	1201137-09	020812E-043	02/08/12 18:38
GW0378	1201139-01	020812E-044	02/08/12 18:43
GW0379	1201139-03	020812E-045	02/08/12 18:47
GW0380	1201139-05	020812E-046	02/08/12 18:52
GW0396	1201139-07	020812E-047	02/08/12 18:56
GW0428	1201139-09	020812E-048	02/08/12 19:00
GW0430	1201139-11	020812E-049	02/08/12 19:05
Calibration Check	2B03907-CCV8	020812E-050	02/08/12 19:10
Calibration Blank	2B03907-CCB8	020812E-051	02/08/12 19:17
GW0404	1201151-01	020812E-052	02/08/12 19:22
GW0410	1201151-03	020812E-053	02/08/12 19:26
GW0429	1201151-05	020812E-054	02/08/12 19:31
GW0466	1201193-01	020812E-055	02/08/12 19:35
GW0467	1201193-03	020812E-056	02/08/12 19:40
GW0468	1201193-05	020812E-057	02/08/12 19:44
GW0472	1201193-07	020812E-058	02/08/12 19:48
GW0475	1201193-09	020812E-059	02/08/12 19:53
GW0493	1201193-11	020812E-060	02/08/12 19:57
Calibration Check	2B03907-CCV9	020812E-061	02/08/12 20:03
Calibration Check	2B03907-CCV9	020812E-061	02/08/12 20:03
Calibration Blank	2B03907-CCB9	020812E-062	02/08/12 20:10
Calibration Blank	2B03907-CCB9	020812E-062	02/08/12 20:10
Blank	2B08006-BLK1	020812E-063	02/08/12 20:15
LCS	2B08006-BS1	020812E-064	02/08/12 20:19
GW0375	1201137-02	020812E-065	02/08/12 20:25
GW0376	1201137-04	020812E-066	02/08/12 20:30
GW0376	2B08006-MS1	020812E-067	02/08/12 20:34

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B03907	Instrument:	ME-ICP
Calibration:	2039002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0376	2B08006-MSD1	020812E-068	02/08/12 20:38
GW0376	2B08006-DUP1	020812E-069	02/08/12 20:44
GW0377	1201137-06	020812E-070	02/08/12 20:48
GW0397	1201137-08	020812E-071	02/08/12 20:53
GW0398	1201137-10	020812E-072	02/08/12 20:57
GW0378	1201139-02	020812E-073	02/08/12 21:02
GW0379	1201139-04	020812E-074	02/08/12 21:06
GW0380	1201139-06	020812E-075	02/08/12 21:11
GW0396	1201139-08	020812E-076	02/08/12 21:15
GW0428	1201139-10	020812E-077	02/08/12 21:20
Calibration Check	2B03907-CCVA	020812E-078	02/08/12 21:25
Calibration Blank	2B03907-CCBA	020812E-079	02/08/12 21:32
GW0430	1201139-12	020812E-080	02/08/12 21:37
GW0404	1201151-02	020812E-081	02/08/12 21:41
GW0410	1201151-04	020812E-082	02/08/12 21:46
GW0429	1201151-06	020812E-083	02/08/12 21:50
GW0466	1201193-02	020812E-084	02/08/12 21:55
GW0467	1201193-04	020812E-085	02/08/12 21:59
GW0468	1201193-06	020812E-086	02/08/12 22:03
GW0472	1201193-08	020812E-087	02/08/12 22:08
GW0475	1201193-10	020812E-088	02/08/12 22:12
GW0493	1201193-12	020812E-089	02/08/12 22:17
Calibration Check	2B03907-CCVB	020812E-090	02/08/12 22:23
Calibration Blank	2B03907-CCBB	020812E-091	02/08/12 22:30

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2033001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	2/1/12_13:37 2/1/12_14:11

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	2.1842E-05	10000	2.1696E-05			500000	2.1744E-05		
Antimony	0	0	100	0.0005652	1000	5.7756E-04					10000	0.0005828
Arsenic	0	0	100	0.0003124	1000	3.3507E-04					10000	3.2911E-04
Barium	0	0	50	0.0110392	1000	0.010474	5000	0.0108234				
Beryllium	0	0	100	0.0027677	1000	0.0027169					10000	0.0027455
Boron	0	0	50	0.0000142	1000	1.383E-05					5000	1.4004E-05
Cadmium	0	0	100	0.016881	1000	0.017004					10000	0.016521
Calcium	0	0	1100	6.472727E-05	50000	5.9826E-05					10000	
Chromium	0	0	100	0.0000528	1000	5.118E-05					10000	5.2134E-05
Cobalt	0	0	100	0.0051897	1000	0.0051107					10000	0.0053399
Copper	0	0	100	0.0000687	1000	6.303E-05					10000	6.5346E-05
Iron	0	0	5100	1.84451E-05	10000	1.7647E-05			500000	1.69778E-05	10000	
Lead	0	0	100	0.0013737	1000	0.0013363					10000	0.0013908
Magnesium	0	0	5100		50000	2.5936E-06			500000	2.6744E-06	10000	
Manganese	0	0	100	0.0002977	1000	2.8253E-04	10000	2.8899E-04			10000	
Molybdenum	0	0	100	0.0035854	1000	0.0036939					10000	0.0037015
Nickel	0	0	100	0.0032162	1000	0.003115					10000	0.0031809
Potassium	0	0	1000	0.0000062	10000	1.3915E-05						
Selenium	0	0	100	0.0003865	1000	3.8789E-04					10000	3.8251E-04
Silver	0	0	20	0.000061	500	5.622E-05	2000	5.9235E-05				
Sodium	0	0	1000		50000	4.2198E-05						
Strontium	0	0	100	0.00169	1000	0.001627					10000	0.001676
Thallium	0	0	100	0.0006723	1000	6.6851E-04					10000	6.8307E-04
Tin	0	0	50	0.0013226	1000	0.0013635					5000	1.38582E-03
Titanium	0	0	100	0.000238	1000	2.2494E-04					10000	2.3143E-04
Vanadium	0	0	100	0.0000535	1000	5.208E-05					10000	5.2077E-05
Zinc	0	0	100	0.0074209	1000	0.0075388					10000	0.0075198

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2033001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	2/1/12 13:37 2/1/12 14:11

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.8896E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.5267E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5008E-05										
Selenium												
Silver												
Sodium	100000	4.1993E-05	500000	4.0942E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2033001	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	2/1/12 13:37	2/1/12 14:11	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.63205E-05	66.6677	5.75423	185.7715	1		0.998	
Antimony	4.3139E-04	66.6886	49.69224	196.7962	0.9999993		0.998	
Arsenic	2.44145E-04	66.78242	9.482672	189.3229	0.9999955		0.998	
Barium	8.08415E-03	66.72888	1.49088	171.2019	0.9999525		0.998	
Beryllium	2.057525E-03	66.67432	25.13376	191.7515	0.9999988		0.998	
Boron	1.05085E-05	66.68218	3.025775	162.0767	0.999991		0.998	
Cadmium	0.0126015	66.6865	5.239745	184.738	0.999992		0.998	
Calcium	4.586232E-05	66.89958	2.878877	162.9141	0.9999978		0.998	
Chromium	3.90285E-05	66.68843	5.925993	184.7804	0.9999963		0.998	
Cobalt	3.910075E-03	66.71099	4.02804	182.6432	0.9999819		0.998	
Copper	4.9269E-05	66.83385	0.81891	67.36839	0.9999838		0.998	
Iron	1.326747E-05	66.81979	9.793165	187.1189	0.9999994		0.998	
Lead	0.0010252	66.70362	17.13121	194.9145	0.9999845		0.998	
Magnesium	1.948675E-06	66.73865	20.28994	198.6144	0.9998811		0.998	
Manganese	2.17305E-04	66.728	1.047518	45.47701	0.9999943		0.998	
Molybdenum	0.0027452	66.69465	4.880753	185.675	0.9999999		0.998	
Nickel	2.378025E-03	66.68999	1.973137	171.6546	0.999995		0.998	
Potassium	8.78075E-06	80.23365	2.80146	129.8188	0.999996		0.998	
Selenium	2.89225E-04	66.67133	4.400912	185.3973	0.9999985		0.998	
Silver	4.411375E-05	66.81661	6.49739	173.2505	0.9998107		0.998	
Sodium	3.128325E-05	66.68986	16.16989	196.2552	0.9999747		0.998	
Strontium	1.24825E-03	66.70177	2.095625	170.741	0.9999914		0.998	
Thallium	5.0597E-04	66.67781	2.17833	152.7768	0.9999963		0.998	
Tin	1.01798E-03	66.71624	3.04947	171.907	0.9999902		0.998	
Titanium	1.735925E-04	66.73738	9.373332	193.1651	0.9999907		0.998	
Vanadium	3.941425E-05	66.68834	2.897338	159.1979	1		0.998	
Zinc	5.619875E-03	66.67301	8.392085	193.6957	0.9999999		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2039002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	2/8/12 8:50 2/8/12 9:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.071E-05	10000	2.0695E-05			500000	2.0424E-05		
Antimony	0	0	100	0.0004274	1000	4.3131E-04					10000	4.2606E-04
Arsenic	0	0	100	0.0002867	1000	2.9773E-04					10000	2.9116E-04
Barium	0	0	50	0.0094032	1000	8.753801E-03	5000	9.087999E-03				
Beryllium	0	0	100	0.0023475	1000	0.0023313					10000	0.0022675
Boron	0	0	50	0.0000146	1000	1.349E-05					5000	1.3446E-05
Cadmium	0	0	100	0.015227	1000	0.015166					10000	0.014442
Calcium	0	0	1100	6.458181E-05	50000	6.176E-05					10000	
Chromium	0	0	100	0.0000472	1000	4.568E-05					10000	4.5916E-05
Cobalt	0	0	100	0.0041024	1000	0.0039257					10000	0.004004
Copper	0	0	100	0.0000545	1000	4.887E-05					10000	4.8951E-05
Iron	0	0	5100	1.930784E-05	10000	1.8764E-05			500000	1.8128E-05	10000	
Lead	0	0	100	0.001149	1000	0.0010896					10000	0.0011117
Magnesium	0	0	5100		50000	2.1988E-06			500000	2.2084E-06	10000	
Manganese	0	0	100	0.0002724	1000	0.0002618	10000	2.6943E-04			10000	
Molybdenum	0	0	100	0.0031207	1000	0.003176					10000	0.0031464
Nickel	0	0	100	0.0028358	1000	0.0027429					10000	0.0027527
Potassium	0	0	1000	6.65E-06	10000	1.3473E-05						
Selenium	0	0	100	0.0003268	1000	3.2489E-04					10000	3.1601E-04
Silver	0	0	20	0.000058	500	5.382E-05	2000	5.747E-05				
Sodium	0	0	1000		50000	3.6544E-05						
Strontium	0	0	100	0.001458	1000	0.001433					10000	0.001454
Thallium	0	0	100	0.0006241	1000	0.0006129					10000	6.1724E-04
Tin	0	0	50	0.0011368	1000	0.0011535					5000	1.15964E-03
Titanium	0	0	100	0.0002067	1000	1.9937E-04					10000	1.9881E-04
Vanadium	0	0	100	0.0000492	1000	4.856E-05					10000	4.8881E-05
Zinc	0	0	100	0.0064186	1000	0.0063715					10000	0.006304
Aluminum	0	0	5000	2.071E-05	10000	2.0695E-05			500000	2.0424E-05		
Antimony	0	0	100	0.0004274	1000	4.3131E-04					10000	4.2606E-04
Arsenic	0	0	100	0.0002867	1000	2.9773E-04					10000	2.9116E-04
Barium	0	0	50	0.0094032	1000	8.753801E-03	5000	9.087999E-03				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2039002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	2/8/12 8:50 2/8/12 9:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0023475	1000	0.0023313					10000	0.0022675
Boron	0	0	50	0.0000146	1000	1.349E-05					5000	1.3446E-05
Cadmium	0	0	100	0.015227	1000	0.015166					10000	0.014442
Calcium	0	0	1100	6.458181E-05	50000	6.176E-05					10000	
Chromium	0	0	100	0.0000472	1000	4.568E-05					10000	4.5916E-05
Cobalt	0	0	100	0.0041024	1000	0.0039257					10000	0.004004
Copper	0	0	100	0.0000545	1000	4.887E-05					10000	4.8951E-05
Iron	0	0	5100	1.930784E-05	10000	1.8764E-05			500000	1.8128E-05	10000	
Lead	0	0	100	0.001149	1000	0.0010896					10000	0.0011117
Magnesium	0	0	5100		50000	2.1988E-06			500000	2.2084E-06	10000	
Manganese	0	0	100	0.0002724	1000	0.0002618	10000	2.6943E-04			10000	
Molybdenum	0	0	100	0.0031207	1000	0.003176					10000	0.0031464
Nickel	0	0	100	0.0028358	1000	0.0027429					10000	0.0027527
Potassium	0	0	1000	6.65E-06	10000	1.3473E-05						
Selenium	0	0	100	0.0003268	1000	3.2489E-04					10000	3.1601E-04
Silver	0	0	20	0.000058	500	5.382E-05	2000	5.747E-05				
Sodium	0	0	1000		50000	3.6544E-05						
Strontium	0	0	100	0.001458	1000	0.001433					10000	0.001454
Thallium	0	0	100	0.0006241	1000	0.0006129					10000	6.1724E-04
Tin	0	0	50	0.0011368	1000	0.0011535					5000	1.15964E-03
Titanium	0	0	100	0.0002067	1000	1.9937E-04					10000	1.9881E-04
Vanadium	0	0	100	0.0000492	1000	4.856E-05					10000	4.8881E-05
Zinc	0	0	100	0.0064186	1000	0.0063715					10000	0.006304

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2039002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	2/8/12 8:50 2/8/12 9:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.934E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.1341E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.4514E-05										
Selenium												
Silver												
Sodium	100000	3.6202E-05	500000	3.5072E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2039002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	2/8/12 8:50 2/8/12 9:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.934E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.1341E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.4514E-05										
Selenium												
Silver												
Sodium	100000	3.6202E-05	500000	3.5072E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2039002	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	2/8/12 8:50	2/8/12 9:24	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.545725E-05	66.67209	2.350123	163.55	0.9999999		0.998	
Antimony	3.211925E-04	66.67027	59.02874	198.211	0.9999985		0.998	
Arsenic	2.188975E-04	66.69878	11.32629	193.1773	0.999994		0.998	
Barium	6.81125E-03	66.78023	2.979858	192.6344	0.9999376		0.998	
Beryllium	1.736575E-03	66.69632	2.158758	169.6473	0.9999929		0.998	
Boron	1.0384E-05	66.86466	1.476935	55.94327	0.9999998		0.998	
Cadmium	1.120875E-02	66.74251	3.80391	190.1897	0.9999769		0.998	
Calcium	4.642045E-05	66.82618	2.249287	158.0741	0.9999842		0.998	
Chromium	3.4699E-05	66.69445	9.662123	188.8572	0.9999995		0.998	
Cobalt	3.008025E-03	66.70997	0.5091675	118.764	0.9999953		0.998	
Copper	3.808025E-05	67.02485	1.17367	83.61147	0.9999988		0.998	
Iron	1.404996E-05	66.75494	12.28832	196.0284	0.9999996		0.998	
Lead	8.37575E-04	66.73088	10.18587	188.7223	0.9999951		0.998	
Magnesium	1.635325E-06	66.69719	752.1704	199.8864	0.9999504		0.998	
Manganese	2.009075E-04	66.70369	1.7213	119.0053	0.9999916		0.998	
Molybdenum	2.360775E-03	66.67354	5.738695	192.1714	0.9999991		0.998	
Nickel	2.08285E-03	66.69668	3.663455	184.3751	0.9999997		0.998	
Potassium	8.65925E-06	77.88928	2.44738	101.817	0.999994		0.998	
Selenium	2.41925E-04	66.69499	10.44591	192.3059	0.9999934		0.998	
Silver	4.23225E-05	66.81109	7.771732	177.9469	0.999712		0.998	
Sodium	2.69545E-05	66.70749	6.054657	192.4092	0.9999625		0.998	
Strontium	1.08625E-03	66.67431	2.05745	154.7465	0.999998		0.998	
Thallium	4.6356E-04	66.67409	4.171695	169.0309	0.9999995		0.998	
Tin	8.62485E-04	66.67606	3.418725	180.2654	0.9999992		0.998	
Titanium	1.5122E-04	66.70904	3.723583	170.4237	1		0.998	
Vanadium	3.666025E-05	66.67048	5.62197	172.6372	0.9999995		0.998	
Zinc	4.773525E-03	66.67395	4.677592	192.1804	0.9999991		0.998	
Aluminum	1.545725E-05	66.67209	2.350123	163.55	0.9999999		0.998	
Antimony	3.211925E-04	66.67027	59.02874	198.211	0.9999985		0.998	
Arsenic	2.188975E-04	66.69878	11.32629	193.1773	0.999994		0.998	
Barium	6.81125E-03	66.78023	2.979858	192.6344	0.9999376		0.998	
Beryllium	1.736575E-03	66.69632	2.158758	169.6473	0.9999929		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2039002	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	2/8/12 8:50	2/8/12 9:24	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.0384E-05	66.86466	1.476935	55.94327	0.9999998		0.998	
Cadmium	1.120875E-02	66.74251	3.80391	190.1897	0.9999769		0.998	
Calcium	4.642045E-05	66.82618	2.249287	158.0741	0.9999842		0.998	
Chromium	3.4699E-05	66.69445	9.662123	188.8572	0.9999995		0.998	
Cobalt	3.008025E-03	66.70997	0.5091675	118.764	0.9999953		0.998	
Copper	3.808025E-05	67.02485	1.17367	83.61147	0.9999988		0.998	
Iron	1.404996E-05	66.75494	12.28832	196.0284	0.9999996		0.998	
Lead	8.37575E-04	66.73088	10.18587	188.7223	0.9999951		0.998	
Magnesium	1.635325E-06	66.69719	752.1704	199.8864	0.9999504		0.998	
Manganese	2.009075E-04	66.70369	1.7213	119.0053	0.9999916		0.998	
Molybdenum	2.360775E-03	66.67354	5.738695	192.1714	0.9999991		0.998	
Nickel	2.08285E-03	66.69668	3.663455	184.3751	0.9999997		0.998	
Potassium	8.65925E-06	77.88928	2.44738	101.817	0.999994		0.998	
Selenium	2.41925E-04	66.69499	10.44591	192.3059	0.9999934		0.998	
Silver	4.23225E-05	66.81109	7.771732	177.9469	0.999712		0.998	
Sodium	2.69545E-05	66.70749	6.054657	192.4092	0.9999625		0.998	
Strontium	1.08625E-03	66.67431	2.05745	154.7465	0.999998		0.998	
Thallium	4.6356E-04	66.67409	4.171695	169.0309	0.9999995		0.998	
Tin	8.62485E-04	66.67606	3.418725	180.2654	0.9999992		0.998	
Titanium	1.5122E-04	66.70904	3.723583	170.4237	1		0.998	
Vanadium	3.666025E-05	66.67048	5.62197	172.6372	0.9999995		0.998	
Zinc	4.773525E-03	66.67395	4.677592	192.1804	0.9999991		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0375

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 09:12
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-01
Received: 01/24/12 08:45

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	2A30011	01/31/12 11:07
18496-25-8	Sulfide		0.678	1.69	3.39	1	U N	SM4500S2CF	2A25015	01/25/12 14:34
10-09-3	Alkalinity, Bicarbonate (as CACO3)	112	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 13:23
16887-00-6	Chloride	17.2	0.170	0.330	0.500	1		E300.0	2A24018	01/24/12 18:37
NA	Nitrate/Nitrite as N	1.16	0.250	0.750	1.50	1	J	E353.2	2A27009	01/27/12 11:18
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 13:23
14808-79-8	Sulfate as SO4	26.6	0.330	1.00	2.00	1		E300.0	2A24018	01/24/12 18:37

ANALYSIS DATA SHEET

GW0376

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 12:46
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-03
Received: 01/24/12 08:45

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	2A30011	01/31/12 11:08
18496-25-8	Sulfide		0.678	1.69	3.39	1	U N	SM4500S2CF	2A25015	01/25/12 14:34
10-09-3	Alkalinity, Bicarbonate (as CACO3)	109	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 13:45
16887-00-6	Chloride	22.8	0.170	0.330	0.500	1		E300.0	2A24018	01/24/12 19:47
NA	Nitrate/Nitrite as N	0.306	0.250	0.750	1.50	1	J	E353.2	2A27009	01/27/12 11:20
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 13:45
14808-79-8	Sulfate as SO4	23.4	0.330	1.00	2.00	1		E300.0	2A24018	01/24/12 19:47

ANALYSIS DATA SHEET

GW0377

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 11:16
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-05
Received: 01/24/12 08:45

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	2A30011	01/31/12 11:11
18496-25-8	Sulfide		0.678	1.69	3.39	1	U N	SM4500S2CF	2A25015	01/25/12 14:35
10-09-3	Alkalinity, Bicarbonate (as CACO3)	87.3	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 14:35
16887-00-6	Chloride	44.4	0.170	0.330	0.500	1		E300.0	2A24018	01/24/12 18:54
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:24
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 14:35
14808-79-8	Sulfate as SO4	31.8	0.330	1.00	2.00	1		E300.0	2A24018	01/24/12 18:54

ANALYSIS DATA SHEET

GW0397

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 13:48
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201137-07
Received: 01/24/12 08:45

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	2A30011	01/31/12 11:12
18496-25-8	Sulfide	0.690	0.690	1.72	3.45	1	J N	SM4500S2CF	2A25015	01/25/12 14:36
10-09-3	Alkalinity, Bicarbonate (as CACO3)	114	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 14:50
16887-00-6	Chloride	11.7	0.170	0.330	0.500	1		E300.0	2A24018	01/24/12 19:12
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:26
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 14:50
14808-79-8	Sulfate as SO4	30.6	0.330	1.00	2.00	1		E300.0	2A24018	01/24/12 19:12

ANALYSIS DATA SHEET

GW0398

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201137-09
Sampled:	01/23/12 10:55	Received:	01/24/12 08:45
% 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	2A30011	01/31/12 11:13
18496-25-8	Sulfide		0.690	1.72	3.45	1	U N	SM4500S2CF	2A25015	01/25/12 14:36
10-09-3	Alkalinity, Bicarbonate (as CACO3)	113	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 15:30
16887-00-6	Chloride	9.08	0.170	0.330	0.500	1		E300.0	2A24018	01/24/12 19:29
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:27
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 15:30
14808-79-8	Sulfate as SO4	29.3	0.330	1.00	2.00	1		E300.0	2A24018	01/24/12 19:29

ANALYSIS DATA SHEET

GW0378

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 14:10
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-01
Received: 01/25/12 07:00

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	2A30011	01/31/12 11:24
18496-25-8	Sulfide	0.828	0.690	1.72	3.45	1	J N	SM4500S2CF	2A25015	01/25/12 14:36
10-09-3	Alkalinity, Bicarbonate (as CACO3)	90.2	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 17:00
16887-00-6	Chloride	54.0	0.170	0.330	0.500	1		E300.0	2A26016	01/27/12 03:02
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:28
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 17:00
14808-79-8	Sulfate as SO4	32.7	0.330	1.00	2.00	1		E300.0	2A26016	01/27/12 03:02

ANALYSIS DATA SHEET

GW0379

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 09:10
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-03
Received: 01/25/12 07:00

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	2A30011	01/31/12 11:25
18496-25-8	Sulfide	0.830	0.690	1.72	3.45	1	J	SM4500S2CF	2A27020	01/27/12 15:02
10-09-3	Alkalinity, Bicarbonate (as CACO3)	98.9	1.00	1.00	1.00	1		SM2320B	2B06022	02/07/12 12:21
16887-00-6	Chloride	31.0	0.170	0.330	0.500	1		E300.0	2A26016	01/27/12 03:20
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:30
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06022	02/07/12 12:21
14808-79-8	Sulfate as SO4	25.0	0.330	1.00	2.00	1		E300.0	2A26016	01/27/12 03:20

ANALYSIS DATA SHEET

GW0380

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201139-05
Sampled:	01/24/12 09:10	Received:	01/25/12 07:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.130	0.110	0.150	0.300	1	J	SM4500NH3BG	2B08005	02/09/12 14:30
18496-25-8	Sulfide	0.830	0.690	1.72	3.45	1	J	SM4500S2CF	2A27020	01/27/12 15:03
10-09-3	Alkalinity, Bicarbonate (as CACO3)	98.1	1.00	1.00	1.00	1		SM2320B	2B06022	02/07/12 12:40
16887-00-6	Chloride	30.9	0.170	0.330	0.500	1		E300.0	2A26016	01/27/12 03:37
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:31
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06022	02/07/12 12:40
14808-79-8	Sulfate as SO4	24.8	0.330	1.00	2.00	1		E300.0	2A26016	01/27/12 03:37

ANALYSIS DATA SHEET

GW0396

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/23/12 16:45
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-07
Received: 01/25/12 07:00

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	2B08005	02/09/12 14:32
18496-25-8	Sulfide		0.678	1.69	3.39	1	U N	SM4500S2CF	2A25015	01/25/12 14:37
10-09-3	Alkalinity, Bicarbonate (as CACO3)	124	1.00	1.00	1.00	1		SM2320B	2B06010	02/06/12 16:00
16887-00-6	Chloride	11.7	0.170	0.330	0.500	1		E300.0	2A26016	01/27/12 03:54
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06010	02/06/12 16:00
14808-79-8	Sulfate as SO4	34.6	0.330	1.00	2.00	1		E300.0	2A26016	01/27/12 03:54

ANALYSIS DATA SHEET

GW0428

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 14:00
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-09
Received: 01/25/12 07:00

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	2B08005	02/09/12 14:33
18496-25-8	Sulfide	1.04	0.741	1.85	3.70	1	J	SM4500S2CF	2A27020	01/27/12 15:03
10-09-3	Alkalinity, Bicarbonate (as CACO3)	85.7	1.00	1.00	1.00	1		SM2320B	2B06022	02/07/12 12:51
16887-00-6	Chloride	75.1	0.170	0.330	0.500	1		E300.0	2A26016	01/27/12 00:25
NA	Nitrate/Nitrite as N	2.30	0.250	0.750	1.50	1		E353.2	2A27009	01/27/12 11:34
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06022	02/07/12 12:51
14808-79-8	Sulfate as SO4	195	0.330	1.00	2.00	1		E300.0	2A26016	01/27/12 00:25

ANALYSIS DATA SHEET

GW0430

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 11:21
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201139-11
Received: 01/25/12 07:00

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	2B08005	02/09/12 14:34
18496-25-8	Sulfide	0.741	0.741	1.85	3.70	1	J	SM4500S2CF	2A27020	01/27/12 15:04
10-09-3	Alkalinity, Bicarbonate (as CACO3)	96.8	1.00	1.00	1.00	1		SM2320B	2B06022	02/07/12 13:06
16887-00-6	Chloride	27.6	0.170	0.330	0.500	1		E300.0	2A26018	01/27/12 04:12
NA	Nitrate/Nitrite as N	0.712	0.250	0.750	1.50	1	J	E353.2	2A27009	01/27/12 11:39
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06022	02/07/12 13:06
14808-79-8	Sulfate as SO4	54.2	0.330	1.00	2.00	1		E300.0	2A26018	01/27/12 04:12

ANALYSIS DATA SHEET

GW0404

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-01
Sampled:	01/25/12 14:41	Received:	01/26/12 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	2B08005	02/09/12 14:38
18496-25-8	Sulfide	0.741	0.741	1.85	3.70	1	J	SM4500S2CF	2B01013	02/01/12 16:45
10-09-3	Alkalinity, Bicarbonate (as CACO3)	105	1.00	1.00	1.00	1		SM2320B	2B08003	02/08/12 14:37
16887-00-6	Chloride	10.6	0.170	0.330	0.500	1		E300.0	2A26018	01/27/12 04:29
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27009	01/27/12 11:40
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B08003	02/08/12 14:37
14808-79-8	Sulfate as SO4	42.2	0.330	1.00	2.00	1		E300.0	2A26018	01/27/12 04:29

ANALYSIS DATA SHEET

GW0410

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/24/12 14:59
% Solids: 0.00

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 1201151-03
Received: 01/26/12 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2B08005	02/09/12 14:39
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	2A27020	01/27/12 15:08
10-09-3	Alkalinity, Bicarbonate (as CACO3)	90.2	1.00	1.00	1.00	1		SM2320B	2B06022	02/07/12 14:00
16887-00-6	Chloride	81.7	0.170	0.330	0.500	1		E300.0	2A26018	01/27/12 04:47
NA	Nitrate/Nitrite as N	2.74	0.250	0.750	1.50	1		E353.2	2A27009	01/27/12 11:42
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B06022	02/07/12 14:00
14808-79-8	Sulfate as SO4	130	0.330	1.00	2.00	1		E300.0	2A26018	01/27/12 04:47

ANALYSIS DATA SHEET

GW0429

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201151-05
Sampled:	01/25/12 10:21	Received:	01/26/12 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	2B08005	02/09/12 14:40
18496-25-8	Sulfide	0.891	0.741	1.85	3.70	1	J	SM4500S2CF	2B01013	02/01/12 16:46
10-09-3	Alkalinity, Bicarbonate (as CACO3)	90.2	1.00	1.00	1.00	1		SM2320B	2B08003	02/08/12 14:50
16887-00-6	Chloride	50.3	0.170	0.330	0.500	1		E300.0	2A26018	01/27/12 05:04
NA	Nitrate/Nitrite as N	1.38	0.250	0.750	1.50	1	J	E353.2	2A27009	01/27/12 11:43
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B08003	02/08/12 14:50
14808-79-8	Sulfate as SO4	79.5	0.330	1.00	2.00	1		E300.0	2A26018	01/27/12 05:04

ANALYSIS DATA SHEET

GW0466

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-01
Sampled:	01/26/12 13:52	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2B08005	02/09/12 14:43
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2B02016	02/02/12 17:06
10-09-3	Alkalinity, Bicarbonate (as CACO3)	102	1.00	1.00	1.00	1		SM2320B	2B09007	02/09/12 10:47
16887-00-6	Chloride	65.8	0.170	0.330	0.500	1	N	E300.0	2A27015	01/27/12 17:03
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27017	01/27/12 12:29
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B09007	02/09/12 10:47
14808-79-8	Sulfate as SO4	66.7	0.330	1.00	2.00	1	N	E300.0	2A27015	01/27/12 17:03

ANALYSIS DATA SHEET

GW0467

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-03
Sampled:	01/26/12 13:52	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.110	0.110	0.150	0.300	1	J	SM4500NH3BG	2B08005	02/09/12 14:44
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2B02016	02/02/12 17:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	102	1.00	1.00	1.00	1		SM2320B	2B09007	02/09/12 10:59
16887-00-6	Chloride	65.8	0.170	0.330	0.500	1	N	E300.0	2A27015	01/27/12 17:20
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27017	01/27/12 12:30
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B09007	02/09/12 10:59
14808-79-8	Sulfate as SO4	66.8	0.330	1.00	2.00	1	N	E300.0	2A27015	01/27/12 17:20

ANALYSIS DATA SHEET

GW0468

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-05
Sampled:	01/26/12 11:32	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2B08005	02/09/12 14:45
18496-25-8	Sulfide	0.690	0.690	1.72	3.45	1	J	SM4500S2CF	2B02016	02/02/12 17:08
10-09-3	Alkalinity, Bicarbonate (as CACO3)	98.8	1.00	1.00	1.00	1		SM2320B	2B09007	02/09/12 11:12
16887-00-6	Chloride	7.22	0.170	0.330	0.500	1	N	E300.0	2A27015	01/27/12 17:38
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27017	01/27/12 12:32
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B09007	02/09/12 11:12
14808-79-8	Sulfate as SO4	27.8	0.330	1.00	2.00	1	N	E300.0	2A27015	01/27/12 17:38

ANALYSIS DATA SHEET

GW0472

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-07
Sampled:	01/26/12 09:37	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2B08005	02/09/12 14:46
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	2B02016	02/02/12 17:09
10-09-3	Alkalinity, Bicarbonate (as CACO3)	123	1.00	1.00	1.00	1		SM2320B	2B09007	02/09/12 11:29
16887-00-6	Chloride	15.2	0.170	0.330	0.500	1	N	E300.0	2A27015	01/27/12 17:55
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27017	01/27/12 12:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B09007	02/09/12 11:29
14808-79-8	Sulfate as SO4	32.8	0.330	1.00	2.00	1	N	E300.0	2A27015	01/27/12 17:55

ANALYSIS DATA SHEET

GW0475

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-09
Sampled:	01/26/12 14:03	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2B08005	02/09/12 14:47
18496-25-8	Sulfide	0.741	0.741	1.85	3.70	1	J	SM4500S2CF	2B02016	02/02/12 17:10
10-09-3	Alkalinity, Bicarbonate (as CACO3)	105	1.00	1.00	1.00	1		SM2320B	2B09007	02/09/12 11:41
16887-00-6	Chloride	8.22	0.170	0.330	0.500	1	N	E300.0	2A27015	01/27/12 18:13
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27017	01/27/12 12:35
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B09007	02/09/12 11:41
14808-79-8	Sulfate as SO4	29.2	0.330	1.00	2.00	1	N	E300.0	2A27015	01/27/12 18:13

ANALYSIS DATA SHEET

GW0493

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1201193-11
Sampled:	01/25/12 15:47	Received:	01/27/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2B08005	02/09/12 14:48
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2B01013	02/01/12 16:47
10-09-3	Alkalinity, Bicarbonate (as CACO3)	106	1.00	1.00	1.00	1		SM2320B	2B08003	02/08/12 15:00
16887-00-6	Chloride	9.60	0.170	0.330	0.500	1	N	E300.0	2A27015	01/27/12 18:30
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2A27017	01/27/12 12:36
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2B08003	02/08/12 15:00
14808-79-8	Sulfate as SO4	28.8	0.330	1.00	2.00	1	N	E300.0	2A27015	01/27/12 18:30

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_041
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L33502

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33502-ICV1	Chloride	4.800	5.082	106	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	24.04	100	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_041
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 2A02705

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A02705-CCV1	Chloride	25.00	25.51	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.49	102	mg/L	+/- 10.00%
2A02705-CCV2	Chloride	25.00	25.43	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.54	102	mg/L	+/- 10.00%
2A02705-CCV3	Chloride	25.00	25.34	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.60	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_041
Project: Kirtland AFB 2011
Calibration: 2027001
Sequence: 2A02708

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A02708-ICV1	Nitrate/Nitrite as N	1.200	1.153	96.1	mg/L	+/- 10.00%
2A02708-CCV1	Nitrate/Nitrite as N	1.200	1.126	93.8	mg/L	+/- 10.00%
2A02708-CCV2	Nitrate/Nitrite as N	1.200	1.119	93.2	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_041
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 2A02709

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A02709-CCV1	Chloride	25.00	25.36	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.40	102	mg/L	+/- 10.00%
2A02709-CCV2	Chloride	25.00	25.11	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.27	101	mg/L	+/- 10.00%
2A02709-CCV3	Chloride	25.00	25.00	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.10	100	mg/L	+/- 10.00%
2A02709-CCV4	Chloride	25.00	25.08	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.18	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_041
Project: Kirtland AFB 2011
Calibration: 2027002
Sequence: 2A02710

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A02710-ICV1	Nitrate/Nitrite as N	1.200	1.212	101	mg/L	+/- 10.00%
2A02710-CCV1	Nitrate/Nitrite as N	1.200	1.230	102	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_041
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 2A03016

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A03016-CCV1	Chloride	25.00	25.38	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.39	102	mg/L	+/- 10.00%
2A03016-CCV2	Chloride	25.00	25.12	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.45	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_041
Project: Kirtland AFB 2011
Calibration: 2031001
Sequence: 2A03107

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A03107-ICV1	Ammonia as N	2.000	2.157	108	mg/L	+/- 10.00%
2A03107-CCV1	Ammonia as N	2.000	2.142	107	mg/L	+/- 10.00%
2A03107-CCV2	Ammonia as N	2.000	2.143	107	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_041
Project: Kirtland AFB 2011
Calibration: 2040004
Sequence: 2B04007

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2B04007-ICV1	Ammonia as N	2.000	2.171	109	mg/L	+/- 10.00%
2B04007-CCV1	Ammonia as N	2.000	2.201	110	mg/L	+/- 10.00%
2B04007-CCV2	Ammonia as N	2.000	2.167	108	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 2A02705

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2A02705-CRL1	Chloride	0.5000	0.5230	105	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5530	111	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 2A02709

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2A02709-CRL1	Chloride	0.5000	0.5190	104	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5530	111	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 2A03016

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2A03016-CRL1	Chloride	0.5000	0.5180	104	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5370	107	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A24018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A24018-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
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A25015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A25015-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A26016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A26016-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_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A26018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A26018-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_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A27009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A27009-BLK1	Nitrate/Nitrite as N	-0.0163	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A27015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A27015-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_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A27017

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A27017-BLK1	Nitrate/Nitrite as N	-0.0132	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A27020

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A27020-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2A30011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A30011-BLK1	Ammonia as N	0.0379	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B01013

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B01013-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B02016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B02016-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B06010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B06010-BLK1	Alkalinity, Total (as CACO3)	-0.412	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B06022

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B06022-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B08003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B08003-BLK1	Alkalinity, Total (as CACO3)	-0.394	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B08005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B08005-BLK1	Ammonia as N	0.0556	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2B09007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B09007-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L33502
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33502-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2A02705
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A02705-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
2A02705-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
2A02705-CCB3	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2A02708
Calibration: 2027001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A02708-ICB1	Nitrate/Nitrite as N	-0.008687	0.0500	0.300	mg/L	U	E353.2
2A02708-CCB1	Nitrate/Nitrite as N	-0.0193	0.0500	0.300	mg/L	U	E353.2
2A02708-CCB2	Nitrate/Nitrite as N	-0.0257	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2A02709
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A02709-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
2A02709-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
2A02709-CCB3	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2A02709-CCB4	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2A02710
Calibration: 2027002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A02710-ICB1	Nitrate/Nitrite as N	-0.03355	0.0500	0.300	mg/L	U	E353.2
2A02710-CCB1	Nitrate/Nitrite as N	-0.0238	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2A03016
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A03016-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
2A03016-CCB2	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2A03107
Calibration: 2031001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A03107-ICB1	Ammonia as N	-0.01971	0.110	0.300	mg/L	U	SM4500NH3BG
2A03107-CCB1	Ammonia as N	-0.0126	0.110	0.300	mg/L	U	SM4500NH3BG
2A03107-CCB2	Ammonia as N	0.0441	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_041
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2B04007
Calibration: 2040004
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2B04007-ICB1	Ammonia as N	-0.005193	0.110	0.300	mg/L	U	SM4500NH3BG
2B04007-CCB1	Ammonia as N	0.00314	0.110	0.300	mg/L	U	SM4500NH3BG
2B04007-CCB2	Ammonia as N	-0.0205	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A24018

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	22.84	50.94	101		80 - 120
Sulfate as SO4	27.78	23.41	51.08	99.6		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	51.02	101	0.150		20	80 - 120
Sulfate as SO4	27.78	51.13	99.8	0.0978		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A25015

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1083	ND	1411	130	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1083	1455	134	3.08	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0428

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26016

% Solids:

Source Sample Name: **1201139-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	75.08	101.6	95.4		80 - 120
Sulfate as SO4	27.78	194.8	221.1	94.6		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	101.3	94.3	0.296		20	80 - 120
Sulfate as SO4	27.78	220.2	91.5	0.399		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0429

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A26018

% Solids:

Source Sample Name: **1201151-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	50.32	77.58	98.1		80 - 120
Sulfate as SO4	27.78	79.45	105.8	94.7		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	77.67	98.4	0.112		20	80 - 120
Sulfate as SO4	27.78	105.8	94.8	0.0378		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A27009

% Solids:

Source Sample Name: **1201137-03**

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	0.3062	2.754	97.9		90 - 110

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.730	97.0	0.875		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0493

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A27015

% Solids:

Source Sample Name: **1201193-11**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	9.605	31.70	79.5	N	80 - 120
Sulfate as SO4	27.78	28.78	50.78	79.2	N	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	34.41	89.3	8.21		20	80 - 120
Sulfate as SO4	27.78	53.45	88.8	5.13		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0493

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A27017

% Solids:

Source Sample Name: **1201193-11**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	ND	2.738	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	2.716	109	0.825		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2A30011

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	5.268	105		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.528	90.6	15.1		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0376

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2B06010

% Solids:

Source Sample Name: **1201137-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	109.2	225.7	105		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	224.3	104	0.610		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0410

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2B06022

% Solids:

Source Sample Name: **1201151-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	90.23	206.0	104		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	204.6	103	0.669		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0380

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2B08005

% Solids:

Source Sample Name: **1201139-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	0.1304	5.416	106		75 - 125

GW0376

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2A24018
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0376

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2A24018-DUP2
Lab Source ID: 1201137-03
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	22.8	22.87	0.114		E300.0
Sulfate as SO4	20	23.4	23.49	0.345		E300.0

GW0428

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2A26016
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0428

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2A26016-DUP2
Lab Source ID: 1201139-09
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	75.1	75.49	0.534		E300.0
Sulfate as SO4	20	195	196.2	0.720		E300.0

GW0429

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2A26018
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0429

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2A26018-DUP1
Lab Source ID: 1201151-05
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	50.3	50.04	0.566		E300.0
Sulfate as SO4	20	79.5	79.17	0.358		E300.0

GW0493

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2A27015
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0493

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2A27015-DUP1
Lab Source ID: 1201193-11
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20		9.563	0.438		E300.0
Sulfate as SO4	20		28.67	0.380		E300.0

GW0396

DUPLICATES

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2B08005
Preparation: pNone
Source Sample Name: GW0396

SDG: Kirtland_041
Project: Kirtland AFB 2011
Laboratory ID: 2B08005-DUP1
Lab Source ID: 1201139-07
Initial/Final: 100 mL / 100 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Ammonia as N	200	0.300 U	0.300 U			SM4500NH3BG

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A24018	Laboratory ID:	2A24018-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.733	98.6	90 - 110
Sulfate as SO4	24.00	23.68	98.7	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A25015	Laboratory ID:	2A25015-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1000	883.3	88.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26016	Laboratory ID:	2A26016-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.800	100	90 - 110
Sulfate as SO4	24.00	23.72	98.8	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A26018	Laboratory ID:	2A26018-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.827	101	90 - 110
Sulfate as SO4	24.00	23.86	99.4	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27009	Laboratory ID:	2A27009-BS1
Preparation:	pNone	Initial/Final:	20 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	1.690	1.566	92.7	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27015	Laboratory ID:	2A27015-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.823	100	90 - 110
Sulfate as SO4	24.00	23.81	99.2	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27017	Laboratory ID:	2A27017-BS1
Preparation:	pNone	Initial/Final:	20 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	1.690	1.668	98.7	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A27020	Laboratory ID:	2A27020-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1083	1183	109	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1083	1217	112	2.78	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A30011	Laboratory ID:	2A30011-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	5.238	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B01013	Laboratory ID:	2B01013-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1083	1267	117	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1083	1234	114	2.64	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B02016	Laboratory ID:	2B02016-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1083	1183	109	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1083	1150	106	2.85	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B06010	Laboratory ID:	2B06010-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	208.5	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B06022	Laboratory ID:	2B06022-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	1022	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B08003	Laboratory ID:	2B08003-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	1048	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B08005	Laboratory ID:	2B08005-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	5.321	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2B09007	Laboratory ID:	2B09007-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	1138	114	80 - 120

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A24018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/24/12 11:02	5.00	5.00
GW0376	1201137-03	01/24/12 11:02	5.00	5.00
GW0377	1201137-05	01/24/12 11:02	5.00	5.00
GW0397	1201137-07	01/24/12 11:02	5.00	5.00
GW0398	1201137-09	01/24/12 11:02	5.00	5.00
Blank	2A24018-BLK1	01/24/12 11:02	5.00	5.00
LCS	2A24018-BS1	01/24/12 11:02	5.00	5.00
GW0376	2A24018-DUP2	01/24/12 11:02	5.00	5.00
GW0376	2A24018-MS2	01/24/12 11:02	22.50	25.00
GW0376	2A24018-MSD2	01/24/12 11:02	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A25015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/25/12 10:39	295.00	200.00
GW0376	1201137-03	01/25/12 10:39	295.00	200.00
GW0377	1201137-05	01/25/12 10:39	295.00	200.00
GW0397	1201137-07	01/25/12 10:39	290.00	200.00
GW0398	1201137-09	01/25/12 10:39	290.00	200.00
GW0378	1201139-01	01/25/12 10:39	290.00	200.00
GW0396	1201139-07	01/25/12 10:39	295.00	200.00
Blank	2A25015-BLK1	01/25/12 10:39	250.00	200.00
LCS	2A25015-BS1	01/25/12 10:39	3.00	250.00
GW0376	2A25015-MS1	01/25/12 10:39	3.00	290.00
GW0376	2A25015-MSD1	01/25/12 10:39	3.00	295.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A26016 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0378	1201139-01	01/26/12 13:22	5.00	5.00
GW0379	1201139-03	01/26/12 13:22	5.00	5.00
GW0380	1201139-05	01/26/12 13:22	5.00	5.00
GW0396	1201139-07	01/26/12 13:22	5.00	5.00
GW0428	1201139-09	01/26/12 13:22	5.00	5.00
Blank	2A26016-BLK1	01/26/12 13:22	5.00	5.00
LCS	2A26016-BS1	01/26/12 13:22	5.00	5.00
GW0428	2A26016-DUP2	01/26/12 13:22	5.00	5.00
GW0428	2A26016-MS2	01/26/12 13:22	22.50	25.00
GW0428	2A26016-MSD2	01/26/12 13:22	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A26018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0430	1201139-11	01/26/12 14:32	5.00	5.00
GW0404	1201151-01	01/26/12 14:32	5.00	5.00
GW0410	1201151-03	01/26/12 14:32	5.00	5.00
GW0429	1201151-05	01/26/12 14:32	5.00	5.00
Blank	2A26018-BLK1	01/26/12 14:32	5.00	5.00
LCS	2A26018-BS1	01/26/12 14:32	5.00	5.00
GW0429	2A26018-DUP1	01/26/12 14:32	5.00	5.00
GW0429	2A26018-MS1	01/26/12 14:32	22.50	25.00
GW0429	2A26018-MSD1	01/26/12 14:32	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/27/12 08:49	4.00	20.00
GW0376	1201137-03	01/27/12 08:49	4.00	20.00
GW0377	1201137-05	01/27/12 08:49	4.00	20.00
GW0397	1201137-07	01/27/12 08:49	4.00	20.00
GW0398	1201137-09	01/27/12 08:49	4.00	20.00
GW0378	1201139-01	01/27/12 08:49	4.00	20.00
GW0379	1201139-03	01/27/12 08:49	4.00	20.00
GW0380	1201139-05	01/27/12 08:49	4.00	20.00
GW0396	1201139-07	01/27/12 08:49	4.00	20.00
GW0428	1201139-09	01/27/12 08:49	4.00	20.00
GW0430	1201139-11	01/27/12 08:49	4.00	20.00
GW0404	1201151-01	01/27/12 08:49	4.00	20.00
GW0410	1201151-03	01/27/12 08:49	4.00	20.00
GW0429	1201151-05	01/27/12 08:49	4.00	20.00
Blank	2A27009-BLK1	01/27/12 08:49	20.00	20.00
LCS	2A27009-BS1	01/27/12 08:49	20.00	20.00
GW0376	2A27009-MS1	01/27/12 08:49	4.00	20.00
GW0376	2A27009-MSD1	01/27/12 08:49	4.00	20.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27015 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01	01/27/12 11:52	5.00	5.00
GW0467	1201193-03	01/27/12 11:52	5.00	5.00
GW0468	1201193-05	01/27/12 11:52	5.00	5.00
GW0472	1201193-07	01/27/12 11:52	5.00	5.00
GW0475	1201193-09	01/27/12 11:52	5.00	5.00
GW0493	1201193-11	01/27/12 11:52	5.00	5.00
Blank	2A27015-BLK1	01/27/12 11:52	5.00	5.00
LCS	2A27015-BS1	01/27/12 11:52	5.00	5.00
GW0493	2A27015-DUP1	01/27/12 11:52	5.00	5.00
GW0493	2A27015-MS1	01/27/12 11:52	22.50	25.00
GW0493	2A27015-MSD1	01/27/12 11:52	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27017 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01	01/27/12 11:55	4.00	20.00
GW0467	1201193-03	01/27/12 11:55	4.00	20.00
GW0468	1201193-05	01/27/12 11:55	4.00	20.00
GW0472	1201193-07	01/27/12 11:55	4.00	20.00
GW0475	1201193-09	01/27/12 11:55	4.00	20.00
GW0493	1201193-11	01/27/12 11:55	4.00	20.00
Blank	2A27017-BLK1	01/27/12 11:55	20.00	20.00
LCS	2A27017-BS1	01/27/12 11:55	20.00	20.00
GW0493	2A27017-MS1	01/27/12 11:55	4.00	20.00
GW0493	2A27017-MSD1	01/27/12 11:55	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A27020 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0379	1201139-03	01/27/12 12:54	290.00	200.00
GW0380	1201139-05	01/27/12 12:54	290.00	200.00
GW0428	1201139-09	01/27/12 12:54	270.00	200.00
GW0430	1201139-11	01/27/12 12:54	270.00	200.00
GW0410	1201151-03	01/27/12 12:54	290.00	200.00
Blank	2A27020-BLK1	01/27/12 12:54	250.00	200.00
LCS	2A27020-BS1	01/27/12 12:54	3.00	250.00
LCS Dup	2A27020-BSD1	01/27/12 12:54	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2A30011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	01/30/12 08:29	100.00	100.00
GW0376	1201137-03	01/30/12 08:29	100.00	100.00
GW0377	1201137-05	01/30/12 08:29	100.00	100.00
GW0397	1201137-07	01/30/12 08:29	100.00	100.00
GW0398	1201137-09	01/30/12 08:29	100.00	100.00
GW0378	1201139-01	01/30/12 08:29	100.00	100.00
GW0379	1201139-03	01/30/12 08:29	100.00	100.00
Blank	2A30011-BLK1	01/30/12 08:29	100.00	100.00
LCS	2A30011-BS1	01/30/12 08:29	100.00	100.00
GW0376	2A30011-MS1	01/30/12 08:29	100.00	100.00
GW0376	2A30011-MSD1	01/30/12 08:29	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B01013 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0404	1201151-01	02/01/12 09:57	270.00	200.00
GW0429	1201151-05	02/01/12 09:57	270.00	200.00
GW0493	1201193-11	02/01/12 09:57	270.00	200.00
Blank	2B01013-BLK1	02/01/12 09:57	250.00	200.00
LCS	2B01013-BS1	02/01/12 09:57	3.00	250.00
LCS Dup	2B01013-BSD1	02/01/12 09:57	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B02016 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01	02/02/12 16:01	270.00	200.00
GW0467	1201193-03	02/02/12 16:01	270.00	200.00
GW0468	1201193-05	02/02/12 16:01	290.00	200.00
GW0472	1201193-07	02/02/12 16:01	290.00	200.00
GW0475	1201193-09	02/02/12 16:01	270.00	200.00
Blank	2B02016-BLK1	02/02/12 16:01	250.00	200.00
LCS	2B02016-BS1	02/02/12 16:01	3.00	250.00
LCS Dup	2B02016-BSD1	02/02/12 16:01	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B06010 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0375	1201137-01	02/06/12 08:12	25.00	25.00
GW0376	1201137-03	02/06/12 08:12	25.00	25.00
GW0377	1201137-05	02/06/12 08:12	25.00	25.00
GW0397	1201137-07	02/06/12 08:12	25.00	25.00
GW0398	1201137-09	02/06/12 08:12	25.00	25.00
GW0378	1201139-01	02/06/12 08:12	25.00	25.00
GW0396	1201139-07	02/06/12 08:12	25.00	25.00
Blank	2B06010-BLK1	02/06/12 08:12	25.00	25.00
LCS	2B06010-BS1	02/06/12 08:12	25.00	25.00
GW0376	2B06010-MS1	02/06/12 08:12	22.50	25.00
GW0376	2B06010-MSD1	02/06/12 08:12	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B06022 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0379	1201139-03	02/06/12 11:02	25.00	25.00
GW0380	1201139-05	02/06/12 11:02	25.00	25.00
GW0428	1201139-09	02/06/12 11:02	25.00	25.00
GW0430	1201139-11	02/06/12 11:02	25.00	25.00
GW0410	1201151-03	02/06/12 11:02	25.00	25.00
Blank	2B06022-BLK1	02/06/12 11:02	25.00	25.00
LCS	2B06022-BS1	02/06/12 11:02	5.00	25.00
GW0410	2B06022-MS1	02/06/12 11:02	22.50	25.00
GW0410	2B06022-MSD1	02/06/12 11:02	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B08003 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0404	1201151-01	02/08/12 07:52	25.00	25.00
GW0429	1201151-05	02/08/12 07:52	25.00	25.00
GW0493	1201193-11	02/08/12 07:52	25.00	25.00
Blank	2B08003-BLK1	02/08/12 07:52	25.00	25.00
LCS	2B08003-BS1	02/08/12 07:52	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B08005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0380	1201139-05	02/08/12 08:06	100.00	100.00
GW0396	1201139-07	02/08/12 08:06	100.00	100.00
GW0428	1201139-09	02/08/12 08:06	100.00	100.00
GW0430	1201139-11	02/08/12 08:06	100.00	100.00
GW0404	1201151-01	02/08/12 08:06	100.00	100.00
GW0410	1201151-03	02/08/12 08:06	100.00	100.00
GW0429	1201151-05	02/08/12 08:06	100.00	100.00
GW0466	1201193-01	02/08/12 08:06	100.00	100.00
GW0467	1201193-03	02/08/12 08:06	100.00	100.00
GW0468	1201193-05	02/08/12 08:06	100.00	100.00
GW0472	1201193-07	02/08/12 08:06	100.00	100.00
GW0475	1201193-09	02/08/12 08:06	100.00	100.00
GW0493	1201193-11	02/08/12 08:06	100.00	100.00
Blank	2B08005-BLK1	02/08/12 08:06	100.00	100.00
LCS	2B08005-BS1	02/08/12 08:06	100.00	100.00
GW0396	2B08005-DUP1	02/08/12 08:06	100.00	100.00
GW0380	2B08005-MS1	02/08/12 08:06	100.00	100.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_041

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

Batch: 2B09007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0466	1201193-01	02/09/12 08:34	25.00	25.00
GW0467	1201193-03	02/09/12 08:34	25.00	25.00
GW0468	1201193-05	02/09/12 08:34	25.00	25.00
GW0472	1201193-07	02/09/12 08:34	25.00	25.00
GW0475	1201193-09	02/09/12 08:34	25.00	25.00
Blank	2B09007-BLK1	02/09/12 08:34	25.00	25.00
LCS	2B09007-BS1	02/09/12 08:34	5.00	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2B06010-BS1	020612-003	02/06/12 12:00
Blank	2B06010-BLK1	020612-004	02/06/12 12:33
GW0376	2B06010-MS1	020612-016	02/06/12 16:20
GW0376	2B06010-MSD1	020612-017	02/06/12 16:45
LCS	2B06022-BS1	020712-003	02/07/12 11:16
Blank	2B06022-BLK1	020712-004	02/07/12 11:30
GW0410	2B06022-MS1	020712-019	02/07/12 14:20
GW0410	2B06022-MSD1	020712-020	02/07/12 14:35
LCS	2B08003-BS1	020812-003	02/08/12 13:00
Blank	2B08003-BLK1	020812-004	02/08/12 13:30
LCS	2B09007-BS1	020912-003	02/09/12 10:00
Blank	2B09007-BLK1	020912-004	02/09/12 10:10

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_041

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2A25015-BS1	012512-002	01/25/12 14:28
Blank	2A25015-BLK1	012512-006	01/25/12 14:30
GW0376	2A25015-MSD1	012512-022	01/25/12 14:35
GW0376	2A25015-MS1	012512-021	01/25/12 14:35
LCS Dup	2A27020-BSD1	012712-003	01/27/12 15:00
LCS	2A27020-BS1	012712-002	01/27/12 15:00
Blank	2A27020-BLK1	012712-004	01/27/12 15:00
LCS	2B01013-BS1	020112-002	02/01/12 16:40
LCS Dup	2B01013-BSD1	020112-003	02/01/12 16:41
Blank	2B01013-BLK1	020112-004	02/01/12 16:42
Blank	2B02016-BLK1	020212-004	02/02/12 17:01
LCS	2B02016-BS1	020212-002	02/02/12 17:02
LCS Dup	2B02016-BSD1	020212-003	02/02/12 17:03

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33502	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L33502-CAL1	112911-003	11/29/11 18:23
Cal Standard	1L33502-CAL2	112911-004	11/29/11 18:40
Cal Standard	1L33502-CAL3	112911-005	11/29/11 18:57
Cal Standard	1L33502-CAL4	112911-006	11/29/11 19:15
Cal Standard	1L33502-CAL5	112911-007	11/29/11 19:32
Cal Standard	1L33502-CAL6	112911-008	11/29/11 19:50
Cal Standard	1L33502-CAL7	112911-009	11/29/11 20:07
Cal Standard	1L33502-CAL8	112911-010	11/29/11 20:24
Initial Cal Check	1L33502-ICV1	112911-011	11/29/11 20:42
Initial Cal Blank	1L33502-ICB1	112911-012	11/29/11 20:59

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02705	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A02705-CCV1	012412-003	01/24/12 12:22
Calibration Blank	2A02705-CCB1	012412-004	01/24/12 12:39
Instrument RL Check	2A02705-CRL1	012412-005	01/24/12 12:57
LCS	2A24018-BS1	012412-008	01/24/12 13:49
Blank	2A24018-BLK1	012412-009	01/24/12 14:07
Calibration Check	2A02705-CCV2	012412-021	01/24/12 18:02
Calibration Blank	2A02705-CCB2	012412-022	01/24/12 18:20
GW0375	1201137-01	012412-023	01/24/12 18:37
GW0377	1201137-05	012412-024	01/24/12 18:54
GW0397	1201137-07	012412-025	01/24/12 19:12
GW0398	1201137-09	012412-026	01/24/12 19:29
GW0376	1201137-03	012412-027	01/24/12 19:47
GW0376	2A24018-MS2	012412-028	01/24/12 20:04
GW0376	2A24018-MSD2	012412-029	01/24/12 20:21
GW0376	2A24018-DUP2	012412-030	01/24/12 20:39
Calibration Check	2A02705-CCV3	012412-031	01/24/12 20:56
Calibration Blank	2A02705-CCB3	012412-032	01/24/12 21:14

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02708	Instrument:	WC-Lachat
Calibration:	2027001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A02708-CAL1	M_1-27-2012_10-57-52AM-00	01/27/12 10:59
Cal Standard	2A02708-CAL2	M_1-27-2012_10-57-52AM-00	01/27/12 11:01
Cal Standard	2A02708-CAL3	M_1-27-2012_10-57-52AM-00	01/27/12 11:02
Cal Standard	2A02708-CAL4	M_1-27-2012_10-57-52AM-00	01/27/12 11:04
Cal Standard	2A02708-CAL5	M_1-27-2012_10-57-52AM-00	01/27/12 11:05
Cal Standard	2A02708-CAL6	M_1-27-2012_10-57-52AM-00	01/27/12 11:07
Cal Standard	2A02708-CAL7	M_1-27-2012_10-57-52AM-00	01/27/12 11:08
Cal Standard	2A02708-CAL8	M_1-27-2012_10-57-52AM-00	01/27/12 11:10
Initial Cal Check	2A02708-ICV1	M_1-27-2012_10-57-52AM-00	01/27/12 11:11
Initial Cal Blank	2A02708-ICB1	M_1-27-2012_10-57-52AM-01	01/27/12 11:12
Blank	2A27009-BLK1	M_1-27-2012_10-57-52AM-01	01/27/12 11:15
LCS	2A27009-BS1	M_1-27-2012_10-57-52AM-01	01/27/12 11:17
GW0375	1201137-01	M_1-27-2012_10-57-52AM-01	01/27/12 11:18
GW0376	1201137-03	M_1-27-2012_10-57-52AM-01	01/27/12 11:20
GW0376	2A27009-MS1	M_1-27-2012_10-57-52AM-01	01/27/12 11:21
GW0376	2A27009-MSD1	M_1-27-2012_10-57-52AM-01	01/27/12 11:23
GW0377	1201137-05	M_1-27-2012_10-57-52AM-01	01/27/12 11:24
GW0397	1201137-07	M_1-27-2012_10-57-52AM-01	01/27/12 11:26
GW0398	1201137-09	M_1-27-2012_10-57-52AM-02	01/27/12 11:27
GW0378	1201139-01	M_1-27-2012_10-57-52AM-02	01/27/12 11:28
GW0379	1201139-03	M_1-27-2012_10-57-52AM-02	01/27/12 11:30
GW0380	1201139-05	M_1-27-2012_10-57-52AM-02	01/27/12 11:31
GW0396	1201139-07	M_1-27-2012_10-57-52AM-02	01/27/12 11:33
GW0428	1201139-09	M_1-27-2012_10-57-52AM-02	01/27/12 11:34
Calibration Check	2A02708-CCV1	M_1-27-2012_10-57-52AM-02	01/27/12 11:36
Calibration Blank	2A02708-CCB1	M_1-27-2012_10-57-52AM-02	01/27/12 11:37
GW0430	1201139-11	M_1-27-2012_10-57-52AM-02	01/27/12 11:39
GW0404	1201151-01	M_1-27-2012_10-57-52AM-02	01/27/12 11:40
GW0410	1201151-03	M_1-27-2012_10-57-52AM-03	01/27/12 11:42
GW0429	1201151-05	M_1-27-2012_10-57-52AM-03	01/27/12 11:43
Calibration Check	2A02708-CCV2	M_1-27-2012_10-57-52AM-03	01/27/12 11:50
Calibration Blank	2A02708-CCB2	M_1-27-2012_10-57-52AM-03	01/27/12 11:52

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02709	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A02709-CCV1	012612-003	01/26/12 16:53
Calibration Blank	2A02709-CCB1	012612-004	01/26/12 17:10
Instrument RL Check	2A02709-CRL1	012612-005	01/26/12 17:28
LCS	2A26016-BS1	012612-008	01/26/12 18:20
Blank	2A26016-BLK1	012612-009	01/26/12 18:37
Calibration Check	2A02709-CCV2	012612-021	01/26/12 22:06
Calibration Blank	2A02709-CCB2	012612-022	01/26/12 22:24
GW0428	1201139-09	012612-029	01/27/12 00:25
GW0428	2A26016-MS2	012612-030	01/27/12 00:43
GW0428	2A26016-MSD2	012612-031	01/27/12 01:00
GW0428	2A26016-DUP2	012612-032	01/27/12 01:18
Calibration Check	2A02709-CCV3	012612-033	01/27/12 01:35
Calibration Blank	2A02709-CCB3	012612-034	01/27/12 01:52
LCS	2A26018-BS1	012612-035	01/27/12 02:10
Blank	2A26018-BLK1	012612-036	01/27/12 02:27
GW0378	1201139-01	012612-038	01/27/12 03:02
GW0379	1201139-03	012612-039	01/27/12 03:20
GW0380	1201139-05	012612-040	01/27/12 03:37
GW0396	1201139-07	012612-041	01/27/12 03:54
GW0430	1201139-11	012612-042	01/27/12 04:12
GW0404	1201151-01	012612-043	01/27/12 04:29
GW0410	1201151-03	012612-044	01/27/12 04:47
GW0429	1201151-05	012612-045	01/27/12 05:04
GW0429	2A26018-MS1	012612-046	01/27/12 05:21
GW0429	2A26018-MSD1	012612-047	01/27/12 05:39
GW0429	2A26018-DUP1	012612-048	01/27/12 05:56
Calibration Check	2A02709-CCV4	012612-050	01/27/12 06:31
Calibration Blank	2A02709-CCB4	012612-051	01/27/12 06:49

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A02710	Instrument:	WC-Lachat
Calibration:	2027002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A02710-CAL1	M_1-27-2012_12-08-39PM-00	01/27/12 12:10
Cal Standard	2A02710-CAL2	M_1-27-2012_12-08-39PM-00	01/27/12 12:12
Cal Standard	2A02710-CAL3	M_1-27-2012_12-08-39PM-00	01/27/12 12:13
Cal Standard	2A02710-CAL4	M_1-27-2012_12-08-39PM-00	01/27/12 12:15
Cal Standard	2A02710-CAL5	M_1-27-2012_12-08-39PM-00	01/27/12 12:16
Cal Standard	2A02710-CAL6	M_1-27-2012_12-08-39PM-00	01/27/12 12:17
Cal Standard	2A02710-CAL7	M_1-27-2012_12-08-39PM-00	01/27/12 12:19
Cal Standard	2A02710-CAL8	M_1-27-2012_12-08-39PM-00	01/27/12 12:20
Initial Cal Check	2A02710-ICV1	M_1-27-2012_12-08-39PM-00	01/27/12 12:22
Initial Cal Blank	2A02710-ICB1	M_1-27-2012_12-08-39PM-01	01/27/12 12:23
Blank	2A27017-BLK1	M_1-27-2012_12-08-39PM-01	01/27/12 12:26
LCS	2A27017-BS1	M_1-27-2012_12-08-39PM-01	01/27/12 12:28
GW0466	1201193-01	M_1-27-2012_12-08-39PM-01	01/27/12 12:29
GW0467	1201193-03	M_1-27-2012_12-08-39PM-01	01/27/12 12:30
GW0468	1201193-05	M_1-27-2012_12-08-39PM-01	01/27/12 12:32
GW0472	1201193-07	M_1-27-2012_12-08-39PM-01	01/27/12 12:33
GW0475	1201193-09	M_1-27-2012_12-08-39PM-01	01/27/12 12:35
GW0493	1201193-11	M_1-27-2012_12-08-39PM-01	01/27/12 12:36
GW0493	2A27017-MS1	M_1-27-2012_12-08-39PM-02	01/27/12 12:38
GW0493	2A27017-MSD1	M_1-27-2012_12-08-39PM-02	01/27/12 12:39
Calibration Check	2A02710-CCV1	M_1-27-2012_12-08-39PM-02	01/27/12 12:41
Calibration Blank	2A02710-CCB1	M_1-27-2012_12-08-39PM-02	01/27/12 12:42

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03016	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A03016-CCV1	012712-003	01/27/12 14:09
Calibration Blank	2A03016-CCB1	012712-004	01/27/12 14:26
Instrument RL Check	2A03016-CRL1	012712-005	01/27/12 14:44
LCS	2A27015-BS1	012712-008	01/27/12 15:36
Blank	2A27015-BLK1	012712-009	01/27/12 15:53
GW0466	1201193-01	012712-013	01/27/12 17:03
GW0467	1201193-03	012712-014	01/27/12 17:20
GW0468	1201193-05	012712-015	01/27/12 17:38
GW0472	1201193-07	012712-016	01/27/12 17:55
GW0475	1201193-09	012712-017	01/27/12 18:13
GW0493	1201193-11	012712-018	01/27/12 18:30
GW0493	2A27015-MS1	012712-019	01/27/12 18:47
GW0493	2A27015-MSD1	012712-020	01/27/12 19:05
GW0493	2A27015-DUP1	012712-021	01/27/12 19:22
Calibration Check	2A03016-CCV2	012712-022	01/27/12 19:40
Calibration Blank	2A03016-CCB2	012712-023	01/27/12 19:57

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A03107	Instrument:	WC-Lachat
Calibration:	2031001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A03107-CAL1	M_1-31-2012_10-53-41AM-00	01/31/12 10:54
Cal Standard	2A03107-CAL2	M_1-31-2012_10-53-41AM-00	01/31/12 10:55
Cal Standard	2A03107-CAL3	M_1-31-2012_10-53-41AM-00	01/31/12 10:56
Cal Standard	2A03107-CAL4	M_1-31-2012_10-53-41AM-00	01/31/12 10:57
Cal Standard	2A03107-CAL5	M_1-31-2012_10-53-41AM-00	01/31/12 10:58
Cal Standard	2A03107-CAL6	M_1-31-2012_10-53-41AM-00	01/31/12 10:59
Cal Standard	2A03107-CAL7	M_1-31-2012_10-53-41AM-00	01/31/12 11:00
Cal Standard	2A03107-CAL8	M_1-31-2012_10-53-41AM-00	01/31/12 11:01
Initial Cal Check	2A03107-ICV1	M_1-31-2012_10-53-41AM-00	01/31/12 11:02
Initial Cal Blank	2A03107-ICB1	M_1-31-2012_10-53-41AM-01	01/31/12 11:03
Blank	2A30011-BLK1	M_1-31-2012_10-53-41AM-01	01/31/12 11:04
LCS	2A30011-BS1	M_1-31-2012_10-53-41AM-01	01/31/12 11:04
GW0375	1201137-01	M_1-31-2012_10-53-41AM-01	01/31/12 11:07
GW0376	1201137-03	M_1-31-2012_10-53-41AM-01	01/31/12 11:08
GW0376	2A30011-MS1	M_1-31-2012_10-53-41AM-01	01/31/12 11:09
GW0376	2A30011-MSD1	M_1-31-2012_10-53-41AM-01	01/31/12 11:10
GW0377	1201137-05	M_1-31-2012_10-53-41AM-01	01/31/12 11:11
GW0397	1201137-07	M_1-31-2012_10-53-41AM-02	01/31/12 11:12
GW0398	1201137-09	M_1-31-2012_10-53-41AM-02	01/31/12 11:13
Calibration Check	2A03107-CCV1	M_1-31-2012_10-53-41AM-02	01/31/12 11:17
Calibration Blank	2A03107-CCB1	M_1-31-2012_10-53-41AM-02	01/31/12 11:18
GW0378	1201139-01	M_1-31-2012_10-53-41AM-03	01/31/12 11:24
GW0379	1201139-03	M_1-31-2012_10-53-41AM-03	01/31/12 11:25
Calibration Check	2A03107-CCV2	M_1-31-2012_10-53-41AM-03	01/31/12 11:28
Calibration Blank	2A03107-CCB2	M_1-31-2012_10-53-41AM-03	01/31/12 11:29

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_041
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2B04007	Instrument:	WC-Lachat
Calibration:	2040004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2B04007-CAL1	)M_2-9-2012_02-15-02PM-00	02/09/12 14:15
Cal Standard	2B04007-CAL2	)M_2-9-2012_02-15-02PM-00	02/09/12 14:16
Cal Standard	2B04007-CAL3	)M_2-9-2012_02-15-02PM-00	02/09/12 14:17
Cal Standard	2B04007-CAL4	)M_2-9-2012_02-15-02PM-00	02/09/12 14:18
Cal Standard	2B04007-CAL5	)M_2-9-2012_02-15-02PM-00	02/09/12 14:19
Cal Standard	2B04007-CAL6	)M_2-9-2012_02-15-02PM-00	02/09/12 14:20
Cal Standard	2B04007-CAL7	)M_2-9-2012_02-15-02PM-00	02/09/12 14:21
Cal Standard	2B04007-CAL8	)M_2-9-2012_02-15-02PM-00	02/09/12 14:22
Initial Cal Check	2B04007-ICV1	)M_2-9-2012_02-15-02PM-00	02/09/12 14:23
Initial Cal Blank	2B04007-ICB1	)M_2-9-2012_02-15-02PM-01	02/09/12 14:24
Blank	2B08005-BLK1	)M_2-9-2012_02-15-02PM-01	02/09/12 14:25
LCS	2B08005-BS1	)M_2-9-2012_02-15-02PM-01	02/09/12 14:26
GW0380	1201139-05	)M_2-9-2012_02-15-02PM-01	02/09/12 14:30
GW0380	2B08005-MS1	)M_2-9-2012_02-15-02PM-01	02/09/12 14:31
GW0396	2B08005-DUP1	)M_2-9-2012_02-15-02PM-01	02/09/12 14:32
GW0396	1201139-07	)M_2-9-2012_02-15-02PM-01	02/09/12 14:32
GW0428	1201139-09	)M_2-9-2012_02-15-02PM-02	02/09/12 14:33
GW0430	1201139-11	)M_2-9-2012_02-15-02PM-02	02/09/12 14:34
GW0404	1201151-01	)M_2-9-2012_02-15-02PM-02	02/09/12 14:38
GW0410	1201151-03	)M_2-9-2012_02-15-02PM-02	02/09/12 14:39
GW0429	1201151-05	)M_2-9-2012_02-15-02PM-02	02/09/12 14:40
Calibration Check	2B04007-CCV1	)M_2-9-2012_02-15-02PM-02	02/09/12 14:41
Calibration Blank	2B04007-CCB1	)M_2-9-2012_02-15-02PM-02	02/09/12 14:42
GW0466	1201193-01	)M_2-9-2012_02-15-02PM-03	02/09/12 14:43
GW0467	1201193-03	)M_2-9-2012_02-15-02PM-03	02/09/12 14:44
GW0468	1201193-05	)M_2-9-2012_02-15-02PM-03	02/09/12 14:45
GW0472	1201193-07	)M_2-9-2012_02-15-02PM-03	02/09/12 14:46
GW0475	1201193-09	)M_2-9-2012_02-15-02PM-03	02/09/12 14:47
GW0493	1201193-11	)M_2-9-2012_02-15-02PM-03	02/09/12 14:48
Calibration Check	2B04007-CCV2	)M_2-9-2012_02-15-02PM-04	02/09/12 14:53
Calibration Blank	2B04007-CCB2	)M_2-9-2012_02-15-02PM-04	02/09/12 14:54