ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_059

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

SUBMITTAL TO:
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THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

All SW8260B vials for samples GW0662 were received with observable head space.

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

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

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

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

SW8260B:
Note – Sample 1208005-09, -13, -15, -17 were analyzed at a 5x only due to sample foaming during screening.

The following batch spikes exceeded criteria:
2H07003-BS1/BSD1 exceeded relative percent difference criteria for Hexachlorobutadiene and 1,2,3-Trichlorobenzene

The following continuing calibration verifications exceeded criteria:
2H21505-CCV1 with a negative bias for Acetone, Chloromethane, Hexachlorobutadiene, Methylene Chloride, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene
2H22201-CCV1 with a negative bias for Bromomethane, Chloromethane, Dichlorodifluoromethane, and Methylene Chloride
2H22302-CCV1 with a positive bias for 2-Butanone, 2-Hexanone, and 4-Methyl-2-pentanone

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

SW8270D BNA:
The following batch spikes exceeded criteria:
2G23012-BS1/BSD1 with a negative bias for Atrazine, 2-Chloronaphthalene, Dibenzofuran, Isophorone, and 2-Methylnaphthalene and exceeded relative percent difference criteria for Benzidine
2H03006-BS1 with a negative bias for Atrazine

The following continuing calibration verifications exceeded criteria:
2H22908-CCV1 with a positive bias for,2'-Oxybis-1-chloropropane
2H23001-CCV1 with a positive bias for Butylbenzylphthalate and 2,2'-Oxybis-1-chloropropane
2H23305-CCV1 with a positive bias for 2,2'-Oxybis-1-chloropropane and Terphenyl-d14

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

SW8015B DRO:
The following surrogates exceeded criteria:
o-Terphenyl with a positive bias in 1208028-15RE1

The following continuing calibration verifications exceeded criteria:
2H22010-CCV2 with a positive bias for Diesel Range Organics

The following surrogates exceeded the retention time window:
o-Terphenyl in 1208028-17RE1 and 2H22010-CCV2; note – the result bias due to the retention time shift was determined to be negligible for all affected samples and QC

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

SW8015B GRO:
The following continuing calibration verifications exceeded criteria:
2H22710-CCV4 with a positive bias for Gasoline Range Organics

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

SW8011:
The following surrogates exceeded criteria:
1,3-Dibromopropane with a positive bias on column 1 in 2H14003-BLK1 and with no recovery on both columns in 1208028-15RE1; note – the surrogate was diluted out in 1208208-15RE1

The following continuing calibration verifications exceeded criteria:
2H23303-CCV1 with a positive bias on both columns for 1,3-Dibromopropane

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

SW6010B:
The following continuing calibration verifications exceeded criteria:
2H21510-CCV8 with a positive bias for Iron (dissolved)
2H22909-CCV7 with a positive bias for Manganese (dissolved)
2H22909-CCV8 with a positive bias for Manganese (dissolved)

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

Wet Chemistry:
The following compounds are qualified with an M to indicate that the LOQ was raised to the level of the reporting limit standard within criteria:
Sulfate as SO4 (2.5 mg/L) in 1208005-01, -03, -05, -07, -09, -11, -13, -15, -17, -19, 1208028-01, -03, -05, -07, -09, -11, -13, -15, -17, and -19

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

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

Analytical Report Terms and Qualifiers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

S: The associated internal standard exceeded criteria.

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

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

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

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

LIMS Definitions / Naming Conventions:

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

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

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

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

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

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

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

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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

GC/MS Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1208005

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW219

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

Samples Shipment Date: 31 JUL 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618769

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [signature] Date: 7/31/12 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack deciller Date: 8-1-12 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 GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
02 GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

1208005

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW219

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0661	KAFB-106035-WG-GW0661-REG	31 JUL 2012	11:56	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
03	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
04	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0678	KAFB-106050-WG-GW0678-REG	31 JUL 2012	12:25	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
05	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0679	KAFB-106050-WG-GW0679-FD	31 JUL 2012	12:25	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
07	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		

1208005

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW219

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0680	KAFB-106051-WG-GW0680-REG	31 JUL 2012	10:15	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
09	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0697	KAFB-106067-WG-GW0697-REG	30 JUL 2012	15:22	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
11	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
12	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0698	KAFB-106068-WG-GW0698-REG	30 JUL 2012	12:05	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		

1208005

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW219

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
13	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
14	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0723	KAFB-106091-WG-GW0723-REG	30 JUL 2012	15:51	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
15	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
16	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
15	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0724	KAFB-106092-WG-GW0724-REG	30 JUL 2012	13:42	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
17	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
18	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
17	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300,			N		

1208005

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW219

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Alkalinity by SM2320B					
17	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0725	KAFB-106092-WG-GW0725-FD	30 JUL 2012	13:42	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
18	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
20	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
19	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0726	KAFB-106093-WG-GW0726-REG	30 JUL 2012	11:36	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
21	GW8219-TB	FIELDQC-BW-GW8219-TB-TB	30 JUL 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 08/01/12 @ 0830

1. Tracking # 8769 (last 4 digits, FedEx) WO# 1208005

Courier: ____FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius + correction factor -0.2 = 0.1

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

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

If yes, how many and where: 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 * JD 8-1-12

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

* Headspace in TPH vial of sample GW0724,

Cooler Received/Opened On_ 08/01/12 @ 0830

1. Tracking # 8770 (last 4 digits, FedEx) WO# 1208005

Courier: ____FED-EX

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

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

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

If yes, how many and where: FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 08/01/12 @ 0830

1. Tracking #_____8780_____(last 4 digits, FedEx) WO# 1208005

Courier: ____FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius + correction factor -0.2* = 1.9

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: NA

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) JD

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

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

Additional Details:

Cooler Received/Opened On_ 08/01/12 @ 0830

1. Tracking # 8791 (last 4 digits, FedEx) WO# _____

Courier: ____FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.5 *Degrees Celsius + correction factor -0.2* = 1.3

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: 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) JD

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

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

Additional Details:

Cooler Received/Opened On_ 08/01/12 @ 0830

WO# 1208005

1. Tracking # 8806 (last 4 digits, FedEx)

Courier: ____FED-EX

2. Temperature of rep. sample or temp blank when opened: 4.1 *Degrees Celsius + correction factor -0.2* = 3.9

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 08/01/12 @ 0830

WO# 1208025

1. Tracking # 8817 (last 4 digits, FedEx)

Courier: ____FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius + correction factor* -0.2 = 0.5

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 # 6

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

1208028

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW220

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

Samples Shipment Date: 02 AUG 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306618828

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: 8/2/12 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) Jack Daily Jr. — Date: 8-3-12 Time: 0820

Comments: ~~Please see master in VOC cooler 1N 8/2/12~~

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW220

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
02	GW0631	KAFB-106002-WG-GW0631-REG	02 AUG 2012	11:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
04	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0639	KAFB-106011-WG-GW0639-REG	02 AUG 2012	13:09	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
05	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
06	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0649	KAFB-106021-WG-GW0649-REG	02 AUG 2012	12:15	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
07	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW220

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0650	KAFB-106022-WG-GW0650-REG	02 AUG 2012	14:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
10	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0662	KAFB-106036-WG-GW0662-REG	01 AUG 2012	9:46	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
11	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
12	GW0663	KAFB-106037-WG-GW0663-REG	01 AUG 2012	14:29	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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31 Jul 2012 TN

31 Jul 2012 TN

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW220

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B					
13	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
14	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0677	KAFB-106049-WG-GW0677-REG	31 JUL 2012	14:45	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
15	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
16	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
15	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0710	KAFB-106079-WG-GW0710-REG	01 AUG 2012	14:59	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
17	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
18	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
17	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		

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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW220

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
17	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0711	KAFB-106080-WG-GW0711-REG	01 AUG 2012	12:50	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
19	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
20	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
19	GW0712	KAFB-106081-WG-GW0712-REG	01 AUG 2012	14:52	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
20	GW8057-AB	FIELDQC-BW-GW8057-AB-AB	02 AUG 2012	14:37	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B	21		N		
8/1/12 21	GW8058-AB	FIELDQC-BW-GW8058-AB-AB	02 AUG 2012	12:50	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B	22		N		
22	GW8220-TB	FIELDQC-BW-GW8220-TB-TB	01 AUG 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B	23		N		

JD 8-3-12
Renumbered
on right

Cooler Received/Opened On_ 08/03/12 @ 0820

1. Tracking #_____8888_____(last 4 digits, FedEx) WO# 1208028

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.5 Degrees Celsius + correction factor - 0.2 = 2.3

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) _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

* GW0662 arrived with all VOC vials (3 HCl) with observable headspace as well as One TPH/GRO (HCl) vial with headspace

* GW0663 arrived with one VOC vial and one TPH vial with observable headspace.

Cooler Received/Opened On_ 08/03/12 @ 0820

1. Tracking # 8839 (last 4 digits, FedEx) WO# 1208028

Courier: ___FED-EX

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

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

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

If yes, how many and where: FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 08/03/12 @ 0820

1. Tracking #_____8840_____(last 4 digits, FedEx) WO# 1208028

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.5 *Degrees Celsius + correction factor - 0.2* = 1.3

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) _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 08/03/12 @ 0820

1. Tracking # 8850 (last 4 digits, FedEx) WO# 1208028

Courier: ___FED-EX

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

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 08/03/12 @ 0820

1. Tracking # 8861 (last 4 digits, FedEx) WO# 1208028

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.1 *Degrees Celsius + correction factor - 0.2* = 2.9

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 # 5

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Cooler Received/Opened On_ 08/03/12 @ 0820

1. Tracking # 8872 (last 4 digits, FedEx) WO# 1208058

Courier: ___FED-EX

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

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

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

If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 6

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

WORK ORDER

Printed: 8/2/2012 2:18:05PM

1208005

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

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

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

Due to Client: 08/22/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 08/01/2012 08:30
Logged In By: Jack Deville
Date Logged In: 08/01/2012 11:16

Samples Received at: **0.1°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1208005-01 GW0661 [Water] Sampled 07/31/2012 11:56 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/28/2012 12:56	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/27/2013 12:56	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/07/2012 12:56	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/28/2012 12:56	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/14/2012 12:56	carb/bicarb
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/14/2012 12:56	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/14/2012 12:56	
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/07/2012 12:56	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/14/2012 12:56	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/07/2012 12:56	
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/28/2012 12:56	
1208005-02 GW0661 [Water] Sampled 07/31/2012 11:56 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/27/2013 12:56	Fe & Mn

1208005

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
1208005-03 GW0678 [Water] Sampled 07/31/2012 12:25 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/07/2012 13:25	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/28/2012 13:25	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/28/2012 13:25	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/07/2012 13:25	
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/28/2012 13:25	
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/14/2012 13:25	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/14/2012 13:25	
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/14/2012 13:25	carb/bicarb
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/14/2012 13:25	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/27/2013 13:25	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/07/2012 13:25	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1208005-04 GW0678 [Water] Sampled 07/31/2012 12:25 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/27/2013 13:25	Fe & Mn
1208005-05 GW0679 [Water] Sampled 07/31/2012 12:25 Mountain 'Field Duplicate'					
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/07/2012 13:25	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/14/2012 13:25	
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/14/2012 13:25	naphthalene must be reported
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/28/2012 13:25	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/14/2012 13:25	carb/bicarb
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/27/2013 13:25	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/07/2012 13:25	
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/14/2012 13:25	Run dilutions based on 8260 results!
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/28/2012 13:25	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/07/2012 13:25	
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/28/2012 13:25	
1208005-06 GW0679 [Water] Sampled 07/31/2012 12:25 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/27/2013 13:25	Fe & Mn

1208005

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
1208005-07 GW0680 [Water] Sampled 07/31/2012 10:15 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/14/2012 11:15	Run dilutions based on 8260 results!
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/14/2012 11:15	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/14/2012 11:15	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/07/2012 11:15	
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/07/2012 11:15	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/14/2012 11:15	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/07/2012 11:15	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/28/2012 11:15	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/28/2012 11:15	
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/28/2012 11:15	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/27/2013 11:15	Ca, Pb, K, Na, Mg
1208005-08 GW0680 [Water] Sampled 07/31/2012 10:15 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/27/2013 11:15	Fe & Mn
1208005-09 GW0697 [Water] Sampled 07/30/2012 15:22 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/13/2012 16:22	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/06/2012 16:22	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 16:22	naphthalene must be reported
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/27/2012 16:22	
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/13/2012 16:22	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/26/2013 16:22	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/13/2012 16:22	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/27/2012 16:22	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/27/2012 16:22	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/06/2012 16:22	
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/06/2012 16:22	
1208005-10 GW0697 [Water] Sampled 07/30/2012 15:22 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/26/2013 16:22	Fe & Mn

1208005

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
1208005-11 GW0698 [Water] Sampled 07/30/2012 12:05 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/13/2012 13:05	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/06/2012 13:05	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/26/2013 13:05	Ca, Pb, K, Na, Mg
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/27/2012 13:05	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/27/2012 13:05	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/27/2012 13:05	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/06/2012 13:05	
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 13:05	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/13/2012 13:05	
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/13/2012 13:05	carb/bicarb
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/06/2012 13:05	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1208005-12 GW0698 [Water] Sampled 07/30/2012 12:05 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/26/2013 13:05	Fe & Mn
1208005-13 GW0723 [Water] Sampled 07/30/2012 15:51 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/06/2012 16:51	
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/06/2012 16:51	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/06/2012 16:51	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/26/2013 16:51	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/13/2012 16:51	
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/27/2012 16:51	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/27/2012 16:51	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/27/2012 16:51	
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/13/2012 16:51	carb/bicarb
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 16:51	naphthalene must be reported
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/13/2012 16:51	Run dilutions based on 8260 results!
1208005-14 GW0723 [Water] Sampled 07/30/2012 15:51 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/26/2013 16:51	Fe & Mn

1208005

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
1208005-15 GW0724 [Water] Sampled 07/30/2012 13:42 Mountain 'Client Sample'					**VIAL D HAS OBSERVABLE HEADSPACE**
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/06/2012 14:42	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/27/2012 14:42	
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/27/2012 14:42	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/27/2012 14:42	Cl, SO4
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 14:42	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/13/2012 14:42	VIAL D HAS OBSERVABLE HEADSPACE
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/13/2012 14:42	Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/06/2012 14:42	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/26/2013 14:42	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/13/2012 14:42	carb/bicarb
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/06/2012 14:42	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1208005-16 GW0724 [Water] Sampled 07/30/2012 13:42 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/26/2013 14:42	Fe & Mn
1208005-17 GW0725 [Water] Sampled 07/30/2012 13:42 Mountain 'Field Duplicate'					
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/13/2012 14:42	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/06/2012 14:42	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/13/2012 14:42	
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 14:42	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/13/2012 14:42	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/27/2012 14:42	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/27/2012 14:42	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/27/2012 14:42	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/06/2012 14:42	
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/06/2012 14:42	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/26/2013 14:42	Ca, Pb, K, Na, Mg
1208005-18 GW0725 [Water] Sampled 07/30/2012 13:42 Mountain 'Field Duplicate'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/26/2013 14:42	Fe & Mn

1208005

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
1208005-19 GW0726 [Water] Sampled 07/30/2012 11:36 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	08/17/2012 14:00	15	08/13/2012 12:36	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/17/2012 14:00	15	08/06/2012 12:36	
SW8270D	SMS_BNA_8270D_3510_REG	08/17/2012 14:00	15	08/06/2012 12:36	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/17/2012 14:00	15	08/13/2012 12:36	
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 12:36	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/17/2012 14:00	15	08/13/2012 12:36	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/17/2012 14:00	15	08/27/2012 12:36	
E300.0	WC_ANIONS_300.0 (Regular)	08/17/2012 14:00	15	08/27/2012 12:36	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/17/2012 14:00	15	08/27/2012 12:36	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/17/2012 14:00	15	08/06/2012 12:36	
SW6010B	MET_ICP_6010B_FULL	08/17/2012 14:00	15	01/26/2013 12:36	Ca, Pb, K, Na, Mg
1208005-20 GW0726 [Water] Sampled 07/30/2012 11:36 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/17/2012 14:00	15	01/26/2013 12:36	Fe & Mn
1208005-21 GW8219-TB [Water] Sampled 07/30/2012 08:00 Central 'Trip Blank'					
SW8260B	VOC_8260B_REG	08/17/2012 14:00	15	08/13/2012 08:00	naphthalene must be reported

Reviewed By

Date

WORK ORDER

Printed: 8/7/2012 12:21:17PM

1208028

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

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

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

Due to Client: 08/24/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 08/03/2012 08:20
Logged In By: Jack Deville
Date Logged In: 08/03/2012 09:55

Samples Received at: **2.3°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1208028-01 GW0631 [Water] Sampled 08/02/2012 11:05 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/30/2012 12:05	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/09/2012 12:05	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/29/2013 12:05	Ca, Pb, K, Na, Mg
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/30/2012 12:05	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/16/2012 12:05	carb/bicarb
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/16/2012 12:05	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/16/2012 12:05	
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/09/2012 12:05	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/16/2012 12:05	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/09/2012 12:05	
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/30/2012 12:05	
1208028-02 GW0631 [Water] Sampled 08/02/2012 11:05 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/29/2013 12:05	Fe & Mn

1208028

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
1208028-03 GW0639 [Water] Sampled 08/02/2012 13:09 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/09/2012 14:09	
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/16/2012 14:09	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/16/2012 14:09	
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/09/2012 14:09	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/16/2012 14:09	Run dilutions based on 8260 results!
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/30/2012 14:09	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/30/2012 14:09	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/16/2012 14:09	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/09/2012 14:09	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/29/2013 14:09	Ca, Pb, K, Na, Mg
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/30/2012 14:09	
1208028-04 GW0639 [Water] Sampled 08/02/2012 13:09 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/29/2013 14:09	Fe & Mn
1208028-05 GW0649 [Water] Sampled 08/02/2012 12:15 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/09/2012 13:15	
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/30/2012 13:15	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/30/2012 13:15	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/30/2012 13:15	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/16/2012 13:15	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/09/2012 13:15	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/29/2013 13:15	Ca, Pb, K, Na, Mg
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/16/2012 13:15	carb/bicarb
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/16/2012 13:15	naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/09/2012 13:15	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/16/2012 13:15	
1208028-06 GW0649 [Water] Sampled 08/02/2012 12:15 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/29/2013 13:15	Fe & Mn

1208028

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
1208028-07 GW0650 [Water] Sampled 08/02/2012 14:37 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/16/2012 15:37	naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/09/2012 15:37	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/30/2012 15:37	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/30/2012 15:37	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/30/2012 15:37	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/29/2013 15:37	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/09/2012 15:37	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/16/2012 15:37	Run dilutions based on 8260 results!
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/16/2012 15:37	carb/bicarb
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/09/2012 15:37	
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/16/2012 15:37	
1208028-08 GW0650 [Water] Sampled 08/02/2012 14:37 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/29/2013 15:37	Fe & Mn
1208028-09 GW0662 [Water] Sampled 08/01/2012 09:46 Mountain 'Client Sample'					**HEADSPACE IN VIALS A-D**
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/29/2012 10:46	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/28/2013 10:46	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/08/2012 10:46	
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/15/2012 10:46	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/29/2012 10:46	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/29/2012 10:46	Cl, SO4
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/08/2012 10:46	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/15/2012 10:46	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/08/2012 10:46	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/15/2012 10:46	HEADSPACE IN VIAL D
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/15/2012 10:46	ALL THREE VIALS HEADSPACE, naphthalene must be reported
1208028-10 GW0662 [Water] Sampled 08/02/2012 09:46 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/29/2013 10:46	Fe & Mn

1208028

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
1208028-11 GW0663 [Water] Sampled 07/31/2012 14:29 Mountain 'Client Sample'					**HEADSPACE IN VIALS C AND F**
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/28/2012 15:29	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/14/2012 15:29	Run dilutions based on 8260 results!
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/28/2012 15:29	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/14/2012 15:29	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/07/2012 15:29	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/27/2013 15:29	Ca, Pb, K, Na, Mg
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/07/2012 15:29	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/14/2012 15:29	HEADSPACE IN VIAL F
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/14/2012 15:29	HEADSPACE IN VIAL C naphthalene must be reported
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/07/2012 15:29	
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/28/2012 15:29	
1208028-12 GW0663 [Water] Sampled 07/31/2012 14:29 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/27/2013 15:29	Fe & Mn
1208028-13 GW0677 [Water] Sampled 07/31/2012 14:45 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/14/2012 15:45	naphthalene must be reported
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/27/2013 15:45	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/07/2012 15:45	
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/28/2012 15:45	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/28/2012 15:45	Cl, SO4
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/14/2012 15:45	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/07/2012 15:45	
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/14/2012 15:45	
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/07/2012 15:45	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/14/2012 15:45	Run dilutions based on 8260 results!
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/28/2012 15:45	
1208028-14 GW0677 [Water] Sampled 07/31/2012 14:45 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/27/2013 15:45	Fe & Mn

1208028

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
1208028-15 GW0710 [Water] Sampled 08/01/2012 14:59 Mountain 'Client Sample'					
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/29/2012 15:59	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/29/2012 15:59	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/29/2012 15:59	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/15/2012 15:59	Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/08/2012 15:59	
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/08/2012 15:59	
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/15/2012 15:59	carb/bicarb
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/15/2012 15:59	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/15/2012 15:59	
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/08/2012 15:59	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/28/2013 15:59	Ca, Pb, K, Na, Mg
1208028-16 GW0710 [Water] Sampled 08/01/2012 14:59 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/28/2013 15:59	Fe & Mn
1208028-17 GW0711 [Water] Sampled 08/01/2012 12:50 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/08/2012 13:50	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/28/2013 13:50	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/08/2012 13:50	
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/29/2012 13:50	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/29/2012 13:50	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/29/2012 13:50	
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/15/2012 13:50	carb/bicarb
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/15/2012 13:50	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/15/2012 13:50	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/08/2012 13:50	
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/15/2012 13:50	naphthalene must be reported
1208028-18 GW0711 [Water] Sampled 08/01/2012 12:50 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/28/2013 13:50	Fe & Mn

1208028

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
1208028-19 GW0712 [Water] Sampled 08/01/2012 14:52 Mountain 'Client Sample'					
SW8015B GRO	VGC_GRO_8015B	08/21/2012 14:00	15	08/15/2012 15:52	
SW6010B	MET_ICP_6010B_FULL	08/21/2012 14:00	15	01/28/2013 15:52	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	08/21/2012 14:00	15	08/08/2012 15:52	
SW8270D	SMS_BNA_8270D_3510_REG	08/21/2012 14:00	15	08/08/2012 15:52	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/15/2012 15:52	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	08/21/2012 14:00	15	08/15/2012 15:52	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	08/21/2012 14:00	15	08/29/2012 15:52	
E300.0	WC_ANIONS_300.0 (Regular)	08/21/2012 14:00	15	08/29/2012 15:52	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	08/21/2012 14:00	15	08/29/2012 15:52	
SM4500S2CF	WC_SULFIDE_4500S2CF	08/21/2012 14:00	15	08/08/2012 15:52	
SW8011	SGC_EDB_8011	08/21/2012 14:00	15	08/15/2012 15:52	Run dilutions based on 8260 results!
1208028-20 GW0712 [Water] Sampled 08/01/2012 14:52 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	08/21/2012 14:00	15	01/28/2013 15:52	Fe & Mn
1208028-21 GW8057-AB [Water] Sampled 08/02/2012 14:37 Mountain 'Ambient Blank'					
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/16/2012 15:37	naphthalene must be reported
1208028-22 GW8058-AB [Water] Sampled 08/01/2012 12:50 Mountain 'Ambient Blank'					
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/15/2012 13:50	naphthalene must be reported
1208028-23 GW8220-TB [Water] Sampled 08/01/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	08/21/2012 14:00	15	08/15/2012 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_059

QC LEVEL: Level IV
Report Due: 8/22/2012 - 8/24/2012
Client Sample Count: 36

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B
Client Sample	7/31/2012	8/1/2012	1208005-01	GW0661	Water	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-02	GW0661	Water			
Client Sample	7/31/2012	8/1/2012	1208005-03	GW0678	Water	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-04	GW0678	Water			
Field Duplicate	7/31/2012	8/1/2012	1208005-05	GW0679	Water	X	X	X
Field Duplicate	7/31/2012	8/1/2012	1208005-06	GW0679	Water			
Client Sample	7/31/2012	8/1/2012	1208005-07	GW0680	Water	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-08	GW0680	Water			
Client Sample	7/30/2012	8/1/2012	1208005-09	GW0697	Water	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-10	GW0697	Water			
Client Sample	7/30/2012	8/1/2012	1208005-11	GW0698	Water	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-12	GW0698	Water			
Client Sample	7/30/2012	8/1/2012	1208005-13	GW0723	Water	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-14	GW0723	Water			
Client Sample	7/30/2012	8/1/2012	1208005-15	GW0724	Water	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-16	GW0724	Water			
Field Duplicate	7/30/2012	8/1/2012	1208005-17	GW0725	Water	X	X	X
Field Duplicate	7/30/2012	8/1/2012	1208005-18	GW0725	Water			
Client Sample	7/30/2012	8/1/2012	1208005-19	GW0726	Water	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-20	GW0726	Water			
Trip Blank	7/30/2012	8/1/2012	1208005-21	GW8219-TB	Water			
Client Sample	8/2/2012	8/3/2012	1208028-01	GW0631	Water	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-02	GW0631	Water			
Client Sample	8/2/2012	8/3/2012	1208028-03	GW0639	Water	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-04	GW0639	Water			
Client Sample	8/2/2012	8/3/2012	1208028-05	GW0649	Water	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-06	GW0649	Water			
Client Sample	8/2/2012	8/3/2012	1208028-07	GW0650	Water	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-08	GW0650	Water			
Client Sample	8/1/2012	8/3/2012	1208028-09	GW0662	Water	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-10	GW0662	Water			
Client Sample	7/31/2012	8/3/2012	1208028-11	GW0663	Water	X	X	X
Client Sample	7/31/2012	8/3/2012	1208028-12	GW0663	Water			
Client Sample	7/31/2012	8/3/2012	1208028-13	GW0677	Water	X	X	X
Client Sample	7/31/2012	8/3/2012	1208028-14	GW0677	Water			
Client Sample	8/1/2012	8/3/2012	1208028-15	GW0710	Water	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-16	GW0710	Water			
Client Sample	8/1/2012	8/3/2012	1208028-17	GW0711	Water	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-18	GW0711	Water			
Client Sample	8/1/2012	8/3/2012	1208028-19	GW0712	Water	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-20	GW0712	Water			
Ambient Blank	8/2/2012	8/3/2012	1208028-21	GW8057-AB	Water			
Ambient Blank	8/1/2012	8/3/2012	1208028-22	GW8058-AB	Water			
Trip Blank	8/1/2012	8/3/2012	1208028-23	GW8220-TB	Water			

Sample Type	Sampled	Received	Lab ID	Client ID	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011
Client Sample	7/31/2012	8/1/2012	1208005-01	GW0661	X	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-02	GW0661			X	
Client Sample	7/31/2012	8/1/2012	1208005-03	GW0678	X	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-04	GW0678			X	
Field Duplicate	7/31/2012	8/1/2012	1208005-05	GW0679	X	X	X	X
Field Duplicate	7/31/2012	8/1/2012	1208005-06	GW0679			X	
Client Sample	7/31/2012	8/1/2012	1208005-07	GW0680	X	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-08	GW0680			X	
Client Sample	7/30/2012	8/1/2012	1208005-09	GW0697	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-10	GW0697			X	
Client Sample	7/30/2012	8/1/2012	1208005-11	GW0698	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-12	GW0698			X	
Client Sample	7/30/2012	8/1/2012	1208005-13	GW0723	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-14	GW0723			X	
Client Sample	7/30/2012	8/1/2012	1208005-15	GW0724	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-16	GW0724			X	
Field Duplicate	7/30/2012	8/1/2012	1208005-17	GW0725	X	X	X	X
Field Duplicate	7/30/2012	8/1/2012	1208005-18	GW0725			X	
Client Sample	7/30/2012	8/1/2012	1208005-19	GW0726	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-20	GW0726			X	
Trip Blank	7/30/2012	8/1/2012	1208005-21	GW8219-TB				
Client Sample	8/2/2012	8/3/2012	1208028-01	GW0631	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-02	GW0631			X	
Client Sample	8/2/2012	8/3/2012	1208028-03	GW0639	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-04	GW0639			X	
Client Sample	8/2/2012	8/3/2012	1208028-05	GW0649	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-06	GW0649			X	
Client Sample	8/2/2012	8/3/2012	1208028-07	GW0650	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-08	GW0650			X	
Client Sample	8/1/2012	8/3/2012	1208028-09	GW0662	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-10	GW0662			X	
Client Sample	7/31/2012	8/3/2012	1208028-11	GW0663	X	X	X	X
Client Sample	7/31/2012	8/3/2012	1208028-12	GW0663			X	
Client Sample	7/31/2012	8/3/2012	1208028-13	GW0677	X	X	X	X
Client Sample	7/31/2012	8/3/2012	1208028-14	GW0677			X	
Client Sample	8/1/2012	8/3/2012	1208028-15	GW0710	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-16	GW0710			X	
Client Sample	8/1/2012	8/3/2012	1208028-17	GW0711	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-18	GW0711			X	
Client Sample	8/1/2012	8/3/2012	1208028-19	GW0712	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-20	GW0712			X	
Ambient Blank	8/2/2012	8/3/2012	1208028-21	GW8057-AB				
Ambient Blank	8/1/2012	8/3/2012	1208028-22	GW8058-AB				
Trip Blank	8/1/2012	8/3/2012	1208028-23	GW8220-TB				

Sample Type	Sampled	Received	Lab ID	Client ID	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	7/31/2012	8/1/2012	1208005-01	GW0661	X	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-02	GW0661				
Client Sample	7/31/2012	8/1/2012	1208005-03	GW0678	X	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-04	GW0678				
Field Duplicate	7/31/2012	8/1/2012	1208005-05	GW0679	X	X	X	X
Field Duplicate	7/31/2012	8/1/2012	1208005-06	GW0679				
Client Sample	7/31/2012	8/1/2012	1208005-07	GW0680	X	X	X	X
Client Sample	7/31/2012	8/1/2012	1208005-08	GW0680				
Client Sample	7/30/2012	8/1/2012	1208005-09	GW0697	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-10	GW0697				
Client Sample	7/30/2012	8/1/2012	1208005-11	GW0698	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-12	GW0698				
Client Sample	7/30/2012	8/1/2012	1208005-13	GW0723	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-14	GW0723				
Client Sample	7/30/2012	8/1/2012	1208005-15	GW0724	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-16	GW0724				
Field Duplicate	7/30/2012	8/1/2012	1208005-17	GW0725	X	X	X	X
Field Duplicate	7/30/2012	8/1/2012	1208005-18	GW0725				
Client Sample	7/30/2012	8/1/2012	1208005-19	GW0726	X	X	X	X
Client Sample	7/30/2012	8/1/2012	1208005-20	GW0726				
Trip Blank	7/30/2012	8/1/2012	1208005-21	GW8219-TB			X	
Client Sample	8/2/2012	8/3/2012	1208028-01	GW0631	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-02	GW0631				
Client Sample	8/2/2012	8/3/2012	1208028-03	GW0639	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-04	GW0639				
Client Sample	8/2/2012	8/3/2012	1208028-05	GW0649	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-06	GW0649				
Client Sample	8/2/2012	8/3/2012	1208028-07	GW0650	X	X	X	X
Client Sample	8/2/2012	8/3/2012	1208028-08	GW0650				
Client Sample	8/1/2012	8/3/2012	1208028-09	GW0662	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-10	GW0662				
Client Sample	7/31/2012	8/3/2012	1208028-11	GW0663	X	X	X	X
Client Sample	7/31/2012	8/3/2012	1208028-12	GW0663				
Client Sample	7/31/2012	8/3/2012	1208028-13	GW0677	X	X	X	X
Client Sample	7/31/2012	8/3/2012	1208028-14	GW0677				
Client Sample	8/1/2012	8/3/2012	1208028-15	GW0710	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-16	GW0710				
Client Sample	8/1/2012	8/3/2012	1208028-17	GW0711	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-18	GW0711				
Client Sample	8/1/2012	8/3/2012	1208028-19	GW0712	X	X	X	X
Client Sample	8/1/2012	8/3/2012	1208028-20	GW0712				
Ambient Blank	8/2/2012	8/3/2012	1208028-21	GW8057-AB			X	
Ambient Blank	8/1/2012	8/3/2012	1208028-22	GW8058-AB			X	
Trip Blank	8/1/2012	8/3/2012	1208028-23	GW8220-TB			X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	0800501.D
Sampled:	07/31/12 11:56	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 13:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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)	0.480	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	0800501.D
Sampled:	07/31/12 11:56	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 13:06
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.91	99.7	75 - 120	
Dibromofluoromethane	30.00	31.10	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.75	106	70 - 120	
Toluene-d8	30.00	30.94	103	85 - 120	

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	0800503.D
Sampled:	07/31/12 12:25	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 13:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	0800503.D
Sampled:	07/31/12 12:25	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 13:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.00	100	75 - 120	
Dibromofluoromethane	30.00	31.02	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.81	103	85 - 120	

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	0800505.D
Sampled:	07/31/12 12:25	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 13:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	0800505.D
Sampled:	07/31/12 12:25	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 13:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.03	100	75 - 120	
Dibromofluoromethane	30.00	31.09	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.19	104	70 - 120	
Toluene-d8	30.00	30.87	103	85 - 120	

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	0800507.D
Sampled:	07/31/12 10:15	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	0800507.D
Sampled:	07/31/12 10:15	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.47	102	75 - 120	
Dibromofluoromethane	30.00	30.86	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.37	105	70 - 120	
Toluene-d8	30.00	30.96	103	85 - 120	

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	0800509D.D
Sampled:	07/30/12 15:22	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 14:53
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	205	12.5	25.0	50.0	D
71-43-2	Benzene	163	1.25	2.50	5.00	D
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	Y, U
104-51-8	n-Butylbenzene	1.60	1.25	2.50	5.00	J, D
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene	2.35	1.25	2.50	5.00	J, D
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	Y, U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	Y, U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene	185	1.25	2.50	5.00	D
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	Q, U

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	0800509D.D
Sampled:	07/30/12 15:22	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 14:53
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene	25.2	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene	2.70	1.25	2.50	5.00	J, D
75-09-2	Methylene chloride		2.50	5.00	10.0	Y, U
91-20-3	Naphthalene	9.75	1.25	2.50	10.0	J, D
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene	13.2	1.25	2.50	5.00	D
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	Q, U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene	5.55	1.25	2.50	5.00	D
95-63-6	1,2,4-Trimethylbenzene		1.25	2.50	5.00	U
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.53	98.4	75 - 120	
Dibromofluoromethane	30.00	30.65	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.52	102	70 - 120	
Toluene-d8	30.00	31.26	104	85 - 120	

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	0800511.D
Sampled:	07/30/12 12:05	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 15:20
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	0800511.D
Sampled:	07/30/12 12:05	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 15:20
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.84	99.5	75 - 120	
Dibromofluoromethane	30.00	31.36	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.41	105	70 - 120	
Toluene-d8	30.00	30.66	102	85 - 120	

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	0800513D.D
Sampled:	07/30/12 15:51	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 15:46
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	137	12.5	25.0	50.0	D
71-43-2	Benzene		1.25	2.50	5.00	U
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	Y, U
104-51-8	n-Butylbenzene		1.25	2.50	5.00	U
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene		1.25	2.50	5.00	U
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	Y, U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	Y, U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane	1.45	1.25	2.50	5.00	J, D
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	Q, U

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	0800513D.D
Sampled:	07/30/12 15:51	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 15:46
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene		1.25	2.50	5.00	U
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	Y, U
91-20-3	Naphthalene		1.25	2.50	10.0	U
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene		1.25	2.50	5.00	U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	Q, U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene		1.25	2.50	5.00	U
95-63-6	1,2,4-Trimethylbenzene		1.25	2.50	5.00	U
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.51	98.4	75 - 120	
Dibromofluoromethane	30.00	30.48	102	85 - 115	
1,2-Dichloroethane-d4	30.00	29.68	98.9	70 - 120	
Toluene-d8	30.00	31.24	104	85 - 120	

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	0800515D.D
Sampled:	07/30/12 13:42	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 16:13
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	233	12.5	25.0	50.0	D
71-43-2	Benzene		1.25	2.50	5.00	U
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	Y, U
104-51-8	n-Butylbenzene		1.25	2.50	5.00	U
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene		1.25	2.50	5.00	U
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	Y, U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	Y, U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane	2.25	1.25	2.50	5.00	J, D
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	Q, U

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	0800515D.D
Sampled:	07/30/12 13:42	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 16:13
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene	6.55	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	Y, U
91-20-3	Naphthalene		1.25	2.50	10.0	U
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene		1.25	2.50	5.00	U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	Q, U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene		1.25	2.50	5.00	U
95-63-6	1,2,4-Trimethylbenzene		1.25	2.50	5.00	U
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.35	97.8	75 - 120	
Dibromofluoromethane	30.00	30.71	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.20	101	70 - 120	
Toluene-d8	30.00	31.16	104	85 - 120	

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	0800517D.D
Sampled:	07/30/12 13:42	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 16:40
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	172	12.5	25.0	50.0	D
71-43-2	Benzene		1.25	2.50	5.00	U
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	Y, U
104-51-8	n-Butylbenzene		1.25	2.50	5.00	U
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene		1.25	2.50	5.00	U
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	Y, U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	Y, U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane	2.25	1.25	2.50	5.00	J, D
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	Q, U

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	0800517D.D
Sampled:	07/30/12 13:42	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 16:40
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene	7.00	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	Y, U
91-20-3	Naphthalene		1.25	2.50	10.0	U
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene		1.25	2.50	5.00	U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	Q, U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene		1.25	2.50	5.00	U
95-63-6	1,2,4-Trimethylbenzene		1.25	2.50	5.00	U
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	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	30.26	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	31.60	105	85 - 120	

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	0800519.D
Sampled:	07/30/12 11:36	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 17:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	0800519.D
Sampled:	07/30/12 11:36	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 17:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.44	98.1	75 - 120	
Dibromofluoromethane	30.00	30.84	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.35	101	70 - 120	
Toluene-d8	30.00	30.67	102	85 - 120	

ANALYSIS DATA SHEET

GW8219-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-21	File ID:	0800521.D
Sampled:	07/30/12 08:00	Prepared:	08/01/12 00:00	Analyzed:	08/01/12 14:41
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, 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	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	2.00	Y, U

ANALYSIS DATA SHEET

GW8219-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-21	File ID:	0800521.D
Sampled:	07/30/12 08:00	Prepared:	08/01/12 00:00	Analyzed:	08/01/12 14:41
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	Y, 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	31.21	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.19	104	70 - 120	
Toluene-d8	30.00	30.72	102	85 - 120	

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	0802801.D
Sampled:	08/02/12 11:05	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 18:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	0802801.D
Sampled:	08/02/12 11:05	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 18:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.66	98.9	75 - 120	
Dibromofluoromethane	30.00	29.04	96.8	85 - 115	
1,2-Dichloroethane-d4	30.00	27.80	92.7	70 - 120	
Toluene-d8	30.00	30.23	101	85 - 120	

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	0802803.D
Sampled:	08/02/12 13:09	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 18:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	0802803.D
Sampled:	08/02/12 13:09	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 18:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene	0.840	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.73	99.1	75 - 120	
Dibromofluoromethane	30.00	30.05	100	85 - 115	
1,2-Dichloroethane-d4	30.00	29.00	96.7	70 - 120	
Toluene-d8	30.00	29.18	97.3	85 - 120	

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	0802805.D
Sampled:	08/02/12 12:15	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 19:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	0802805.D
Sampled:	08/02/12 12:15	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 19:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene	0.430	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.35	94.5	75 - 120	
Dibromofluoromethane	30.00	30.33	101	85 - 115	
1,2-Dichloroethane-d4	30.00	27.73	92.4	70 - 120	
Toluene-d8	30.00	28.84	96.1	85 - 120	

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	0802807.D
Sampled:	08/02/12 14:37	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 19:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, 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)	0.470	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	2.00	U

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	0802807.D
Sampled:	08/02/12 14:37	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 19:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene	1.65	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	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.28	101	75 - 120	
Dibromofluoromethane	30.00	29.77	99.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.00	93.3	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	0802809.D
Sampled:	08/01/12 09:46	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 19:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, 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)	0.410	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	2.00	U

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	0802809.D
Sampled:	08/01/12 09:46	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 19:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.78	95.9	75 - 120	
Dibromofluoromethane	30.00	30.60	102	85 - 115	
1,2-Dichloroethane-d4	30.00	28.01	93.4	70 - 120	
Toluene-d8	30.00	28.50	95.0	85 - 120	

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	0802811.D
Sampled:	07/31/12 14:29	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 20:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	0802811.D
Sampled:	07/31/12 14:29	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 20:28
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.37	97.9	75 - 120	
Dibromofluoromethane	30.00	30.76	103	85 - 115	
1,2-Dichloroethane-d4	30.00	27.83	92.8	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	0802813.D
Sampled:	07/31/12 14:45	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 20:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	0802813.D
Sampled:	07/31/12 14:45	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 20:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.84	96.1	75 - 120	
Dibromofluoromethane	30.00	29.99	100	85 - 115	
1,2-Dichloroethane-d4	30.00	29.29	97.6	70 - 120	
Toluene-d8	30.00	29.25	97.5	85 - 120	

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15	File ID:	0802815D.D
Sampled:	08/01/12 14:59	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 21:54
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		250	500	1000	U
71-43-2	Benzene	8690	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone		250	500	1000	X, U
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide	448	25.0	50.0	100	D
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)		25.0	50.0	100	U
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	1470	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	200	U

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15	File ID:	0802815D.D
Sampled:	08/01/12 14:59	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 21:54
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	79.0	25.0	50.0	100	D, J
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	139	25.0	50.0	200	D, J
108-10-1	4-Methyl-2-pentanone		125	250	500	X, U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	70.0	25.0	50.0	100	D, J
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	2870	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	200	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	200	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	55.0	25.0	50.0	100	D, J
95-63-6	1,2,4-Trimethylbenzene	103	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	603	75.0	150	300	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.67	98.9	75 - 120	
Dibromofluoromethane	30.00	29.41	98.0	85 - 115	
1,2-Dichloroethane-d4	30.00	27.61	92.0	70 - 120	
Toluene-d8	30.00	29.05	96.8	85 - 120	

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17	File ID:	0802817D.D
Sampled:	08/01/12 12:50	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 22:22
Solids:		Preparation:	5030B	Dilution:	50

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		125	250	500	U
71-43-2	Benzene	4310	12.5	25.0	50.0	D
108-86-1	Bromobenzene		12.5	25.0	50.0	U
74-97-5	Bromochloromethane		12.5	25.0	50.0	U
75-27-4	Bromodichloromethane		12.5	25.0	50.0	U
75-25-2	Bromoform		12.5	25.0	50.0	U
74-83-9	Bromomethane		25.0	50.0	100	U
104-51-8	n-Butylbenzene		12.5	25.0	50.0	U
78-93-3	2-Butanone		125	250	500	X, U
135-98-8	sec-Butylbenzene		12.5	25.0	50.0	U
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide	74.5	12.5	25.0	50.0	D
56-23-5	Carbon tetrachloride		12.5	25.0	50.0	U
108-90-7	Chlorobenzene		12.5	25.0	50.0	U
75-00-3	Chloroethane		25.0	50.0	100	U
67-66-3	Chloroform		12.5	25.0	50.0	U
74-87-3	Chloromethane		12.5	25.0	50.0	U
95-49-8	2-Chlorotoluene		12.5	25.0	50.0	U
106-43-4	4-Chlorotoluene		12.5	25.0	50.0	U
124-48-1	Dibromochloromethane		12.5	25.0	50.0	U
96-12-8	1,2-Dibromo-3-chloropropane		25.0	50.0	100	U
106-93-4	1,2-Dibromoethane (EDB)		12.5	25.0	50.0	U
74-95-3	Dibromomethane		12.5	25.0	50.0	U
95-50-1	1,2-Dichlorobenzene		12.5	25.0	50.0	U
541-73-1	1,3-Dichlorobenzene		12.5	25.0	50.0	U
106-46-7	1,4-Dichlorobenzene		12.5	25.0	50.0	U
75-71-8	Dichlorodifluoromethane		25.0	50.0	100	U
75-34-3	1,1-Dichloroethane		12.5	25.0	50.0	U
107-06-2	1,2-Dichloroethane		12.5	25.0	50.0	U
75-35-4	1,1-Dichloroethene		12.5	25.0	50.0	U
156-59-2	cis-1,2-Dichloroethene		12.5	25.0	50.0	U
156-60-5	trans-1,2-Dichloroethene		12.5	25.0	50.0	U
78-87-5	1,2-Dichloropropane		12.5	25.0	50.0	U
142-28-9	1,3-Dichloropropane		12.5	25.0	50.0	U
594-20-7	2,2-Dichloropropane		12.5	25.0	50.0	U
563-58-6	1,1-Dichloropropene		12.5	25.0	50.0	U
10061-01-5	cis-1,3-Dichloropropene		12.5	25.0	50.0	U
10061-02-6	trans-1,3-Dichloropropene		12.5	25.0	50.0	U
100-41-4	Ethylbenzene	1110	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	100	U

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17	File ID:	0802817D.D
Sampled:	08/01/12 12:50	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 22:22
Solids:		Preparation:	5030B	Dilution:	50

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		62.5	125	250	X, U
98-82-8	Isopropylbenzene	60.5	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene		12.5	25.0	50.0	U
75-09-2	Methylene chloride		25.0	50.0	100	U
91-20-3	Naphthalene	98.0	12.5	25.0	100	J, D
108-10-1	4-Methyl-2-pentanone		62.5	125	250	X, U
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	64.0	12.5	25.0	50.0	D
100-42-5	Styrene		12.5	25.0	50.0	U
79-34-5	1,1,2,2-Tetrachloroethane		12.5	25.0	50.0	U
630-20-6	1,1,1,2-Tetrachloroethane		12.5	25.0	50.0	U
127-18-4	Tetrachloroethene		12.5	25.0	50.0	U
108-88-3	Toluene	221	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	100	U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	100	U
79-00-5	1,1,2-Trichloroethane		12.5	25.0	50.0	U
71-55-6	1,1,1-Trichloroethane		12.5	25.0	50.0	U
79-01-6	Trichloroethene		12.5	25.0	50.0	U
75-69-4	Trichlorofluoromethane		25.0	50.0	100	U
96-18-4	1,2,3-Trichloropropane		25.0	50.0	100	U
108-67-8	1,3,5-Trimethylbenzene	46.5	12.5	25.0	50.0	D, J
95-63-6	1,2,4-Trimethylbenzene	92.0	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
1330-20-7	Xylenes (total)	110	37.5	75.0	150	J, D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.68	98.9	75 - 120	
Dibromofluoromethane	30.00	28.82	96.1	85 - 115	
1,2-Dichloroethane-d4	30.00	26.38	87.9	70 - 120	
Toluene-d8	30.00	29.38	97.9	85 - 120	

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	0802819.D
Sampled:	08/01/12 14:52	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 21:25
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	0802819.D
Sampled:	08/01/12 14:52	Prepared:	08/09/12 00:00	Analyzed:	08/09/12 21:25
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.56	98.5	75 - 120	
Dibromofluoromethane	30.00	30.90	103	85 - 115	
1,2-Dichloroethane-d4	30.00	28.66	95.5	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW8057-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-21	File ID:	0802821.D
Sampled:	08/02/12 14:37	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 12:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW8057-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-21	File ID:	0802821.D
Sampled:	08/02/12 14:37	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 12:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.27	101	75 - 120	
Dibromofluoromethane	30.00	30.88	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.66	102	70 - 120	
Toluene-d8	30.00	31.13	104	85 - 120	

ANALYSIS DATA SHEET

GW8058-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-22	File ID:	0802822.D
Sampled:	08/01/12 12:50	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 12:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW8058-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-22	File ID:	0802822.D
Sampled:	08/01/12 12:50	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 12:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.21	101	75 - 120	
Dibromofluoromethane	30.00	30.97	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.33	104	70 - 120	
Toluene-d8	30.00	30.95	103	85 - 120	

ANALYSIS DATA SHEET

GW8220-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-23	File ID:	0802823.D
Sampled:	08/01/12 08:00	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 11:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

GW8220-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-23	File ID:	0802823.D
Sampled:	08/01/12 08:00	Prepared:	08/07/12 00:00	Analyzed:	08/07/12 11:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.21	101	75 - 120	
Dibromofluoromethane	30.00	30.72	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.24	104	70 - 120	
Toluene-d8	30.00	31.19	104	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21505	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H21505-CCV1) ug/L				Lab File ID: 0801CCV1.D		Analyzed: 08/01/12 08:29		
Bromofluorobenzene	30.00	105	80 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	6.95	6.95	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	7.45	7.45	0.0000	+/-1.000	
Toluene-d8	30.00	106	80 - 120	9.65	9.65	0.0000	+/-1.000	
LCS (2H01003-BS1) ug/L				Lab File ID: 0801LCS1.D		Analyzed: 08/01/12 08:56		
Bromofluorobenzene	30.00	102	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.95	6.95	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.45	7.45	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.66	9.65	0.0100	+/-1.000	
Blank (2H01003-BLK1) ug/L				Lab File ID: 0801BL1.D		Analyzed: 08/01/12 10:16		
Bromofluorobenzene	30.00	102	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.95	6.95	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.44	7.45	-0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW8219-TB (1208005-21) ug/L				Lab File ID: 0800521.D		Analyzed: 08/01/12 14:41		
Bromofluorobenzene	30.00	101	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.95	6.95	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.44	7.45	-0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.65	9.65	0.0000	+/-1.000	
LCS Dup (2H01003-BSD1) ug/L				Lab File ID: 0801LCD1.D		Analyzed: 08/01/12 17:48		
Bromofluorobenzene	30.00	103	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.95	6.95	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.44	7.45	-0.0100	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.65	9.65	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22201	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22201-CCV1) ug/L				Lab File ID: 0807CCV2.D		Analyzed: 08/07/12 08:11		
Bromofluorobenzene	30.00	105	80 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	107	80 - 120	9.65	9.65	0.0000	+/-1.000	
LCS (2H07003-BS1) ug/L				Lab File ID: 0807LCS1.D		Analyzed: 08/07/12 08:38		
Bromofluorobenzene	30.00	103	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.64	9.65	-0.0100	+/-1.000	
Blank (2H07003-BLK1) ug/L				Lab File ID: 0807BL1.D		Analyzed: 08/07/12 09:58		
Bromofluorobenzene	30.00	102	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.93	6.94	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW8220-TB (1208028-23) ug/L				Lab File ID: 0802823.D		Analyzed: 08/07/12 11:19		
Bromofluorobenzene	30.00	101	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.93	6.94	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW8057-AB (1208028-21) ug/L				Lab File ID: 0802821.D		Analyzed: 08/07/12 12:12		
Bromofluorobenzene	30.00	101	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.64	9.65	-0.0100	+/-1.000	
GW8058-AB (1208028-22) ug/L				Lab File ID: 0802822.D		Analyzed: 08/07/12 12:39		
Bromofluorobenzene	30.00	101	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW0661 (1208005-01) ug/L				Lab File ID: 0800501.D		Analyzed: 08/07/12 13:06		
Bromofluorobenzene	30.00	99.7	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.44	7.43	0.0100	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.64	9.65	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22201	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0678 (1208005-03) ug/L				Lab File ID: 0800503.D		Analyzed: 08/07/12 13:33		
Bromofluorobenzene	30.00	100	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW0679 (1208005-05) ug/L				Lab File ID: 0800505.D		Analyzed: 08/07/12 13:59		
Bromofluorobenzene	30.00	100	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.44	7.43	0.0100	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.64	9.65	-0.0100	+/-1.000	
GW0680 (1208005-07) ug/L				Lab File ID: 0800507.D		Analyzed: 08/07/12 14:26		
Bromofluorobenzene	30.00	102	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW0697 (1208005-09) ug/L				Lab File ID: 0800509D.D		Analyzed: 08/07/12 14:53		
Bromofluorobenzene	30.00	98.4	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.44	7.43	0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.64	9.65	-0.0100	+/-1.000	
GW0698 (1208005-11) ug/L				Lab File ID: 0800511.D		Analyzed: 08/07/12 15:20		
Bromofluorobenzene	30.00	99.5	75 - 120	12.26	12.27	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.44	7.43	0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.64	9.65	-0.0100	+/-1.000	
GW0723 (1208005-13) ug/L				Lab File ID: 0800513D.D		Analyzed: 08/07/12 15:46		
Bromofluorobenzene	30.00	98.4	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	70 - 120	7.44	7.43	0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW0724 (1208005-15) ug/L				Lab File ID: 0800515D.D		Analyzed: 08/07/12 16:13		
Bromofluorobenzene	30.00	97.8	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.65	9.65	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22201	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0725 (1208005-17) ug/L				Lab File ID: 0800517D.D		Analyzed: 08/07/12 16:40		
Bromofluorobenzene	30.00	98.3	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.65	9.65	0.0000	+/-1.000	
GW0726 (1208005-19) ug/L				Lab File ID: 0800519.D		Analyzed: 08/07/12 17:07		
Bromofluorobenzene	30.00	98.1	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.65	9.65	0.0000	+/-1.000	
LCS Dup (2H07003-BSD1) ug/L				Lab File ID: 0807LCD1.D		Analyzed: 08/07/12 17:34		
Bromofluorobenzene	30.00	102	75 - 120	12.27	12.27	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.94	6.94	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.43	7.43	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.65	9.65	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22302	Instrument:	MS-VOA3
		Calibration:	2213002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22302-CCV1) ug/L				Lab File ID: SEQCCV1.D		Analyzed: 08/09/12 11:23		
Bromofluorobenzene	30.00	103	80 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.2	80 - 120	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.3	80 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	96.9	80 - 120	9.477	9.477	0.0000	+/-1.000	
LCS (2H09007-BS1) ug/L				Lab File ID: 0809LCS1.D		Analyzed: 08/09/12 11:51		
Bromofluorobenzene	30.00	101	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.4	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	97.4	85 - 120	9.477	9.477	0.0000	+/-1.000	
Blank (2H09007-BLK1) ug/L				Lab File ID: 0809BLK1.D		Analyzed: 08/09/12 13:18		
Bromofluorobenzene	30.00	95.1	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.0	70 - 120	7.232	7.238	-0.0060	+/-1.000	
Toluene-d8	30.00	97.5	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0631 (1208028-01) ug/L				Lab File ID: 0802801.D		Analyzed: 08/09/12 18:05		
Bromofluorobenzene	30.00	98.9	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.8	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.7	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0639 (1208028-03) ug/L				Lab File ID: 0802803.D		Analyzed: 08/09/12 18:33		
Bromofluorobenzene	30.00	99.1	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.7	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	97.3	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0649 (1208028-05) ug/L				Lab File ID: 0802805.D		Analyzed: 08/09/12 19:02		
Bromofluorobenzene	30.00	94.5	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.4	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	96.1	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0650 (1208028-07) ug/L				Lab File ID: 0802807.D		Analyzed: 08/09/12 19:31		
Bromofluorobenzene	30.00	101	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.2	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.3	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.477	9.477	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22302	Instrument:	MS-VOA3
		Calibration:	2213002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0662 (1208028-09) ug/L				Lab File ID: 0802809.D		Analyzed: 08/09/12 19:59		
Bromofluorobenzene	30.00	95.9	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.4	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	95.0	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0663 (1208028-11) ug/L				Lab File ID: 0802811.D		Analyzed: 08/09/12 20:28		
Bromofluorobenzene	30.00	97.9	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.8	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0677 (1208028-13) ug/L				Lab File ID: 0802813.D		Analyzed: 08/09/12 20:57		
Bromofluorobenzene	30.00	96.1	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.733	6.727	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.6	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	97.5	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0712 (1208028-19) ug/L				Lab File ID: 0802819.D		Analyzed: 08/09/12 21:25		
Bromofluorobenzene	30.00	98.5	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.5	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0710 (1208028-15) ug/L				Lab File ID: 0802815D.D		Analyzed: 08/09/12 21:54		
Bromofluorobenzene	30.00	98.9	75 - 120	12.111	12.117	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	98.0	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.0	70 - 120	7.232	7.238	-0.0060	+/-1.000	
Toluene-d8	30.00	96.8	85 - 120	9.477	9.477	0.0000	+/-1.000	
GW0711 (1208028-17) ug/L				Lab File ID: 0802817D.D		Analyzed: 08/09/12 22:22		
Bromofluorobenzene	30.00	98.9	75 - 120	12.117	12.117	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.1	85 - 115	6.727	6.727	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	87.9	70 - 120	7.238	7.238	0.0000	+/-1.000	
Toluene-d8	30.00	97.9	85 - 120	9.477	9.477	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H01003	Laboratory ID:	2H01003-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	80.3	80.3	40 - 140
Benzene	50.00	45.6	91.2	80 - 120
Bromobenzene	50.00	45.1	90.1	75 - 125
Bromochloromethane	50.00	49.2	98.4	65 - 130
Bromodichloromethane	50.00	45.9	91.9	75 - 120
Bromoform	50.00	47.5	95.0	70 - 130
Bromomethane	50.00	43.0	86.0	30 - 145
n-Butylbenzene	50.00	41.6	83.3	70 - 135
2-Butanone	100.0	99.7	99.7	30 - 150
sec-Butylbenzene	50.00	43.1	86.1	70 - 125
tert-Butylbenzene	50.00	45.8	91.7	70 - 130
Carbon disulfide	50.00	40.4	80.8	35 - 160
Carbon tetrachloride	50.00	51.9	104	65 - 140
Chlorobenzene	50.00	45.0	90.0	80 - 120
Chloroethane	50.00	43.9	87.9	60 - 135
Chloroform	50.00	44.8	89.7	65 - 135
Chloromethane	50.00	34.7	69.4	40 - 125
2-Chlorotoluene	50.00	43.4	86.7	75 - 125
4-Chlorotoluene	50.00	42.8	85.7	75 - 130
Dibromochloromethane	50.00	46.8	93.5	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.8	91.5	50 - 130
1,2-Dibromoethane (EDB)	50.00	45.6	91.2	80 - 120
Dibromomethane	50.00	44.3	88.6	75 - 125
1,2-Dichlorobenzene	50.00	44.5	89.0	70 - 120
1,3-Dichlorobenzene	50.00	45.3	90.6	75 - 125
1,4-Dichlorobenzene	50.00	45.9	91.9	75 - 125
Dichlorodifluoromethane	50.00	41.8	83.7	30 - 155
1,1-Dichloroethane	50.00	46.1	92.3	70 - 135
1,2-Dichloroethane	50.00	44.6	89.2	70 - 130
1,1-Dichloroethene	50.00	40.8	81.6	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H01003	Laboratory ID:	2H01003-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	46.1	92.1	70 - 125
trans-1,2-Dichloroethene	50.00	46.0	92.0	60 - 140
1,2-Dichloropropane	50.00	47.2	94.3	75 - 125
1,3-Dichloropropane	50.00	45.8	91.6	75 - 125
2,2-Dichloropropane	50.00	51.4	103	70 - 135
1,1-Dichloropropene	50.00	46.3	92.6	75 - 130
cis-1,3-Dichloropropene	50.00	50.8	102	70 - 130
trans-1,3-Dichloropropene	50.00	44.1	88.2	55 - 140
Ethylbenzene	50.00	45.2	90.4	75 - 125
Hexachlorobutadiene	50.00	41.4	82.7	50 - 140
2-Hexanone	100.0	109	109	55 - 130
Isopropylbenzene	50.00	42.6	85.2	75 - 125
p-Isopropyltoluene	50.00	42.6	85.2	75 - 130
Methylene chloride	50.00	39.4	78.9	55 - 140
Naphthalene	50.00	42.4	84.9	55 - 140
4-Methyl-2-pentanone	100.0	113	113	60 - 135
Methyl t-Butyl Ether	50.00	48.2	96.3	65 - 125
n-Propylbenzene	50.00	43.3	86.6	70 - 130
Styrene	50.00	46.2	92.3	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.3	86.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	51.5	103	80 - 130
Tetrachloroethene	50.00	45.7	91.5	45 - 150
Toluene	50.00	45.1	90.1	75 - 120
1,2,3-Trichlorobenzene	50.00	40.5	81.1	55 - 140
1,2,4-Trichlorobenzene	50.00	40.1	80.2	65 - 135
1,1,2-Trichloroethane	50.00	45.7	91.4	75 - 125
1,1,1-Trichloroethane	50.00	48.9	97.9	65 - 130
Trichloroethene	50.00	47.0	94.0	70 - 125
Trichlorofluoromethane	50.00	42.2	84.3	60 - 145
1,2,3-Trichloropropane	50.00	45.8	91.6	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H01003	Laboratory ID:	2H01003-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	46.2	92.4	75 - 130
1,2,4-Trimethylbenzene	50.00	45.5	91.0	75 - 130
Vinyl chloride	50.00	48.5	96.9	50 - 145
Xylenes (total)	150.0	134	89.2	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	70.6	70.6	12.9	30	40 - 140
Benzene	50.00	46.9	93.8	2.81	30	80 - 120
Bromobenzene	50.00	46.8	93.6	3.83	30	75 - 125
Bromochloromethane	50.00	50.4	101	2.33	30	65 - 130
Bromodichloromethane	50.00	47.4	94.8	3.11	30	75 - 120
Bromoform	50.00	45.7	91.5	3.75	30	70 - 130
Bromomethane	50.00	41.6	83.1	3.45	30	30 - 145
n-Butylbenzene	50.00	40.8	81.5	2.14	30	70 - 135
2-Butanone	100.0	91.5	91.5	8.59	30	30 - 150
sec-Butylbenzene	50.00	43.5	87.1	1.09	30	70 - 125
tert-Butylbenzene	50.00	45.9	91.8	0.153	30	70 - 130
Carbon disulfide	50.00	38.7	77.4	4.30	30	35 - 160
Carbon tetrachloride	50.00	50.8	102	2.10	30	65 - 140
Chlorobenzene	50.00	46.3	92.6	2.80	30	80 - 120
Chloroethane	50.00	41.9	83.8	4.71	30	60 - 135
Chloroform	50.00	45.9	91.7	2.25	30	65 - 135
Chloromethane	50.00	32.3	64.6	7.13	30	40 - 125
2-Chlorotoluene	50.00	44.4	88.9	2.44	30	75 - 125
4-Chlorotoluene	50.00	44.3	88.7	3.44	30	75 - 130
Dibromochloromethane	50.00	46.9	93.8	0.320	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.4	88.9	2.97	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.0	94.0	2.96	30	80 - 120
Dibromomethane	50.00	46.2	92.4	4.26	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H01003	Laboratory ID:	2H01003-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	45.8	91.6	2.90	30	70 - 120
1,3-Dichlorobenzene	50.00	45.7	91.4	0.923	30	75 - 125
1,4-Dichlorobenzene	50.00	46.7	93.4	1.62	30	75 - 125
Dichlorodifluoromethane	50.00	36.2	72.4	14.5	30	30 - 155
1,1-Dichloroethane	50.00	46.0	92.0	0.282	30	70 - 135
1,2-Dichloroethane	50.00	47.2	94.5	5.75	30	70 - 130
1,1-Dichloroethene	50.00	39.4	78.7	3.62	30	70 - 130
cis-1,2-Dichloroethene	50.00	46.8	93.7	1.68	30	70 - 125
trans-1,2-Dichloroethene	50.00	45.8	91.7	0.370	30	60 - 140
1,2-Dichloropropane	50.00	48.9	97.7	3.58	30	75 - 125
1,3-Dichloropropane	50.00	46.5	93.0	1.47	30	75 - 125
2,2-Dichloropropane	50.00	46.7	93.5	9.48	30	70 - 135
1,1-Dichloropropene	50.00	46.4	92.9	0.367	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.5	103	1.45	30	70 - 130
trans-1,3-Dichloropropene	50.00	44.4	88.8	0.768	30	55 - 140
Ethylbenzene	50.00	45.9	91.8	1.58	30	75 - 125
Hexachlorobutadiene	50.00	33.5	67.1	20.9	30	50 - 140
2-Hexanone	100.0	98.5	98.5	9.90	30	55 - 130
Isopropylbenzene	50.00	43.6	87.3	2.39	30	75 - 125
p-Isopropyltoluene	50.00	42.7	85.4	0.281	30	75 - 130
Methylene chloride	50.00	39.6	79.2	0.430	30	55 - 140
Naphthalene	50.00	38.5	77.0	9.69	30	55 - 140
4-Methyl-2-pentanone	100.0	103	103	9.13	30	60 - 135
Methyl t-Butyl Ether	50.00	47.6	95.2	1.11	30	65 - 125
n-Propylbenzene	50.00	44.4	88.8	2.49	30	70 - 130
Styrene	50.00	47.8	95.6	3.47	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.0	86.1	0.672	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	51.7	103	0.368	30	80 - 130
Tetrachloroethene	50.00	45.0	89.9	1.70	30	45 - 150
Toluene	50.00	46.5	93.0	3.17	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H01003	Laboratory ID:	2H01003-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	35.3	70.6	13.8	30	55 - 140
1,2,4-Trichlorobenzene	50.00	37.4	74.8	7.02	30	65 - 135
1,1,2-Trichloroethane	50.00	46.7	93.4	2.14	30	75 - 125
1,1,1-Trichloroethane	50.00	49.2	98.4	0.530	30	65 - 130
Trichloroethene	50.00	47.5	95.0	1.04	30	70 - 125
Trichlorofluoromethane	50.00	41.0	82.0	2.72	30	60 - 145
1,2,3-Trichloropropane	50.00	47.0	94.0	2.56	30	75 - 125
1,3,5-Trimethylbenzene	50.00	47.3	94.6	2.33	30	75 - 130
1,2,4-Trimethylbenzene	50.00	46.4	92.8	1.92	30	75 - 130
Vinyl chloride	50.00	45.7	91.4	5.91	30	50 - 145
Xylenes (total)	150.0	137	91.4	2.44	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H07003	Laboratory ID:	2H07003-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	72.4	72.4	40 - 140
Benzene	50.00	45.9	91.8	80 - 120
Bromobenzene	50.00	46.2	92.3	75 - 125
Bromochloromethane	50.00	48.7	97.4	65 - 130
Bromodichloromethane	50.00	47.1	94.1	75 - 120
Bromoform	50.00	50.4	101	70 - 130
Bromomethane	50.00	31.8	63.6	30 - 145
n-Butylbenzene	50.00	43.1	86.2	70 - 135
2-Butanone	100.0	96.7	96.7	30 - 150
sec-Butylbenzene	50.00	42.9	85.7	70 - 125
tert-Butylbenzene	50.00	45.7	91.5	70 - 130
Carbon disulfide	50.00	36.4	72.8	35 - 160
Carbon tetrachloride	50.00	51.6	103	65 - 140
Chlorobenzene	50.00	46.2	92.4	80 - 120
Chloroethane	50.00	39.5	79.0	60 - 135
Chloroform	50.00	43.9	87.9	65 - 135
Chloromethane	50.00	28.4	56.9	40 - 125
2-Chlorotoluene	50.00	44.2	88.4	75 - 125
4-Chlorotoluene	50.00	43.5	87.1	75 - 130
Dibromochloromethane	50.00	49.3	98.5	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.7	91.4	50 - 130
1,2-Dibromoethane (EDB)	50.00	46.3	92.6	80 - 120
Dibromomethane	50.00	44.3	88.6	75 - 125
1,2-Dichlorobenzene	50.00	46.1	92.3	70 - 120
1,3-Dichlorobenzene	50.00	46.2	92.3	75 - 125
1,4-Dichlorobenzene	50.00	46.5	93.0	75 - 125
Dichlorodifluoromethane	50.00	28.9	57.8	30 - 155
1,1-Dichloroethane	50.00	45.8	91.6	70 - 135
1,2-Dichloroethane	50.00	44.5	89.0	70 - 130
1,1-Dichloroethene	50.00	37.5	75.0	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H07003	Laboratory ID:	2H07003-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	46.3	92.7	70 - 125
trans-1,2-Dichloroethene	50.00	45.1	90.2	60 - 140
1,2-Dichloropropane	50.00	47.2	94.4	75 - 125
1,3-Dichloropropane	50.00	46.3	92.6	75 - 125
2,2-Dichloropropane	50.00	49.8	99.7	70 - 135
1,1-Dichloropropene	50.00	44.5	89.0	75 - 130
cis-1,3-Dichloropropene	50.00	51.6	103	70 - 130
trans-1,3-Dichloropropene	50.00	45.7	91.3	55 - 140
Ethylbenzene	50.00	45.4	90.8	75 - 125
Hexachlorobutadiene	50.00	44.9	89.8	50 - 140
2-Hexanone	100.0	105	105	55 - 130
Isopropylbenzene	50.00	42.6	85.1	75 - 125
p-Isopropyltoluene	50.00	43.2	86.4	75 - 130
Methylene chloride	50.00	38.2	76.5	55 - 140
Naphthalene	50.00	54.2	108	55 - 140
4-Methyl-2-pentanone	100.0	109	109	60 - 135
Methyl t-Butyl Ether	50.00	47.9	95.8	65 - 125
n-Propylbenzene	50.00	44.0	87.9	70 - 130
Styrene	50.00	46.9	93.7	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.1	86.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.9	108	80 - 130
Tetrachloroethene	50.00	45.2	90.3	45 - 150
Toluene	50.00	45.8	91.6	75 - 120
1,2,3-Trichlorobenzene	50.00	44.8	89.7	55 - 140
1,2,4-Trichlorobenzene	50.00	43.6	87.3	65 - 135
1,1,2-Trichloroethane	50.00	46.3	92.6	75 - 125
1,1,1-Trichloroethane	50.00	48.0	96.0	65 - 130
Trichloroethene	50.00	46.6	93.2	70 - 125
Trichlorofluoromethane	50.00	38.0	75.9	60 - 145
1,2,3-Trichloropropane	50.00	46.3	92.5	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H07003	Laboratory ID:	2H07003-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	46.6	93.2	75 - 130
1,2,4-Trimethylbenzene	50.00	46.8	93.6	75 - 130
Vinyl chloride	50.00	40.4	80.9	50 - 145
Xylenes (total)	150.0	134	89.5	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	74.3	74.3	2.66	30	40 - 140
Benzene	50.00	45.2	90.3	1.67	30	80 - 120
Bromobenzene	50.00	44.7	89.4	3.26	30	75 - 125
Bromochloromethane	50.00	46.9	93.7	3.85	30	65 - 130
Bromodichloromethane	50.00	45.1	90.3	4.16	30	75 - 120
Bromoform	50.00	45.6	91.3	9.93	30	70 - 130
Bromomethane	50.00	30.6	61.1	4.01	30	30 - 145
n-Butylbenzene	50.00	37.4	74.7	14.2	30	70 - 135
2-Butanone	100.0	97.9	97.9	1.18	30	30 - 150
sec-Butylbenzene	50.00	38.9	77.8	9.74	30	70 - 125
tert-Butylbenzene	50.00	42.1	84.2	8.24	30	70 - 130
Carbon disulfide	50.00	34.3	68.6	5.91	30	35 - 160
Carbon tetrachloride	50.00	48.1	96.2	6.92	30	65 - 140
Chlorobenzene	50.00	44.1	88.1	4.76	30	80 - 120
Chloroethane	50.00	38.1	76.2	3.61	30	60 - 135
Chloroform	50.00	43.8	87.5	0.365	30	65 - 135
Chloromethane	50.00	28.3	56.7	0.352	30	40 - 125
2-Chlorotoluene	50.00	42.1	84.1	4.92	30	75 - 125
4-Chlorotoluene	50.00	42.5	85.1	2.32	30	75 - 130
Dibromochloromethane	50.00	45.2	90.5	8.49	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	43.3	86.6	5.41	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	44.7	89.5	3.45	30	80 - 120
Dibromomethane	50.00	43.6	87.1	1.73	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H07003	Laboratory ID:	2H07003-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	42.8	85.6	7.49	30	70 - 120
1,3-Dichlorobenzene	50.00	43.6	87.2	5.75	30	75 - 125
1,4-Dichlorobenzene	50.00	44.2	88.5	4.92	30	75 - 125
Dichlorodifluoromethane	50.00	26.2	52.5	9.61	30	30 - 155
1,1-Dichloroethane	50.00	44.4	88.7	3.22	30	70 - 135
1,2-Dichloroethane	50.00	44.4	88.8	0.315	30	70 - 130
1,1-Dichloroethene	50.00	35.5	71.0	5.51	30	70 - 130
cis-1,2-Dichloroethene	50.00	45.0	89.9	3.00	30	70 - 125
trans-1,2-Dichloroethene	50.00	43.3	86.6	4.07	30	60 - 140
1,2-Dichloropropane	50.00	46.5	93.0	1.49	30	75 - 125
1,3-Dichloropropane	50.00	44.2	88.5	4.55	30	75 - 125
2,2-Dichloropropane	50.00	41.5	82.9	18.3	30	70 - 135
1,1-Dichloropropene	50.00	42.8	85.6	3.89	30	75 - 130
cis-1,3-Dichloropropene	50.00	48.7	97.4	5.66	30	70 - 130
trans-1,3-Dichloropropene	50.00	42.2	84.3	8.02	30	55 - 140
Ethylbenzene	50.00	43.5	86.9	4.34	30	75 - 125
Hexachlorobutadiene	50.00	26.8	53.5	50.6 *	30	50 - 140
2-Hexanone	100.0	106	106	0.0758	30	55 - 130
Isopropylbenzene	50.00	40.1	80.2	6.00	30	75 - 125
p-Isopropyltoluene	50.00	39.0	78.1	10.1	30	75 - 130
Methylene chloride	50.00	37.2	74.4	2.76	30	55 - 140
Naphthalene	50.00	42.4	84.8	24.4	30	55 - 140
4-Methyl-2-pentanone	100.0	111	111	2.62	30	60 - 135
Methyl t-Butyl Ether	50.00	44.8	89.7	6.66	30	65 - 125
n-Propylbenzene	50.00	41.6	83.2	5.52	30	70 - 130
Styrene	50.00	45.2	90.4	3.58	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	42.5	85.0	1.38	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	49.9	99.9	7.57	30	80 - 130
Tetrachloroethene	50.00	42.0	84.1	7.15	30	45 - 150
Toluene	50.00	44.1	88.2	3.83	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H07003	Laboratory ID:	2H07003-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	32.7	65.3	31.4 *	30	55 - 140
1,2,4-Trichlorobenzene	50.00	35.0	70.1	21.9	30	65 - 135
1,1,2-Trichloroethane	50.00	44.1	88.1	4.91	30	75 - 125
1,1,1-Trichloroethane	50.00	46.1	92.2	4.04	30	65 - 130
Trichloroethene	50.00	45.2	90.5	2.92	30	70 - 125
Trichlorofluoromethane	50.00	36.7	73.5	3.29	30	60 - 145
1,2,3-Trichloropropane	50.00	45.6	91.3	1.37	30	75 - 125
1,3,5-Trimethylbenzene	50.00	44.9	89.8	3.74	30	75 - 130
1,2,4-Trimethylbenzene	50.00	45.1	90.2	3.70	30	75 - 130
Vinyl chloride	50.00	38.6	77.3	4.53	30	50 - 145
Xylenes (total)	150.0	129	86.0	4.00	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H09007	Laboratory ID:	2H09007-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	105	105	40 - 140
Benzene	50.00	52.7	105	80 - 120
Bromobenzene	50.00	51.8	104	75 - 125
Bromochloromethane	50.00	49.6	99.2	65 - 130
Bromodichloromethane	50.00	46.2	92.3	75 - 120
Bromoform	50.00	49.1	98.3	70 - 130
Bromomethane	50.00	48.2	96.5	30 - 145
n-Butylbenzene	50.00	53.9	108	70 - 135
2-Butanone	100.0	121	121	30 - 150
sec-Butylbenzene	50.00	54.2	108	70 - 125
tert-Butylbenzene	50.00	53.6	107	70 - 130
Carbon disulfide	50.00	46.2	92.4	35 - 160
Carbon tetrachloride	50.00	44.3	88.6	65 - 140
Chlorobenzene	50.00	50.1	100	80 - 120
Chloroethane	50.00	51.0	102	60 - 135
Chloroform	50.00	49.5	99.1	65 - 135
Chloromethane	50.00	44.6	89.2	40 - 125
2-Chlorotoluene	50.00	51.6	103	75 - 125
4-Chlorotoluene	50.00	49.9	99.8	75 - 130
Dibromochloromethane	50.00	47.0	94.0	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.5	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.4	98.8	80 - 120
Dibromomethane	50.00	48.2	96.5	75 - 125
1,2-Dichlorobenzene	50.00	50.2	100	70 - 120
1,3-Dichlorobenzene	50.00	50.3	101	75 - 125
1,4-Dichlorobenzene	50.00	50.0	100	75 - 125
Dichlorodifluoromethane	50.00	35.8	71.5	30 - 155
1,1-Dichloroethane	50.00	50.2	100	70 - 135
1,2-Dichloroethane	50.00	50.3	101	70 - 130
1,1-Dichloroethene	50.00	47.7	95.4	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H09007	Laboratory ID:	2H09007-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	51.1	102	70 - 125
trans-1,2-Dichloroethene	50.00	50.8	102	60 - 140
1,2-Dichloropropane	50.00	52.4	105	75 - 125
1,3-Dichloropropane	50.00	49.9	99.9	75 - 125
2,2-Dichloropropane	50.00	52.5	105	70 - 135
1,1-Dichloropropene	50.00	51.7	103	75 - 130
cis-1,3-Dichloropropene	50.00	54.2	108	70 - 130
trans-1,3-Dichloropropene	50.00	46.2	92.4	55 - 140
Ethylbenzene	50.00	52.1	104	75 - 125
Hexachlorobutadiene	50.00	54.1	108	50 - 140
2-Hexanone	100.0	126	126	55 - 130
Isopropylbenzene	50.00	50.4	101	75 - 125
p-Isopropyltoluene	50.00	49.4	98.9	75 - 130
Methylene chloride	50.00	45.5	90.9	55 - 140
Naphthalene	50.00	50.1	100	55 - 140
4-Methyl-2-pentanone	100.0	129	129	60 - 135
Methyl t-Butyl Ether	50.00	50.6	101	65 - 125
n-Propylbenzene	50.00	51.8	104	70 - 130
Styrene	50.00	52.7	105	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.4	101	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.2	96.3	80 - 130
Tetrachloroethene	50.00	51.4	103	45 - 150
Toluene	50.00	51.5	103	75 - 120
1,2,3-Trichlorobenzene	50.00	54.9	110	55 - 140
1,2,4-Trichlorobenzene	50.00	53.4	107	65 - 135
1,1,2-Trichloroethane	50.00	50.6	101	75 - 125
1,1,1-Trichloroethane	50.00	50.4	101	65 - 130
Trichloroethene	50.00	51.0	102	70 - 125
Trichlorofluoromethane	50.00	50.7	101	60 - 145
1,2,3-Trichloropropane	50.00	51.1	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H09007	Laboratory ID:	2H09007-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	52.5	105	75 - 130
1,2,4-Trimethylbenzene	50.00	52.6	105	75 - 130
Vinyl chloride	50.00	51.3	103	50 - 145
Xylenes (total)	150.0	156	104	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H01003 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8219-TB	1208005-21	08/01/12 00:00	5.00	5.00
Blank	2H01003-BLK1	08/01/12 00:00	5.00	5.00
LCS	2H01003-BS1	08/01/12 00:00	5.00	5.00
LCS Dup	2H01003-BSD1	08/01/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H07003 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/07/12 00:00	5.00	5.00
GW0678	1208005-03	08/07/12 00:00	5.00	5.00
GW0679	1208005-05	08/07/12 00:00	5.00	5.00
GW0680	1208005-07	08/07/12 00:00	5.00	5.00
GW0697	1208005-09	08/07/12 00:00	5.00	5.00
GW0698	1208005-11	08/07/12 00:00	5.00	5.00
GW0723	1208005-13	08/07/12 00:00	5.00	5.00
GW0724	1208005-15	08/07/12 00:00	5.00	5.00
GW0725	1208005-17	08/07/12 00:00	5.00	5.00
GW0726	1208005-19	08/07/12 00:00	5.00	5.00
GW8057-AB	1208028-21	08/07/12 00:00	5.00	5.00
GW8058-AB	1208028-22	08/07/12 00:00	5.00	5.00
GW8220-TB	1208028-23	08/07/12 00:00	5.00	5.00
Blank	2H07003-BLK1	08/07/12 00:00	5.00	5.00
LCS	2H07003-BS1	08/07/12 00:00	5.00	5.00
LCS Dup	2H07003-BSD1	08/07/12 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H09007 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/09/12 00:00	5.00	5.00
GW0639	1208028-03	08/09/12 00:00	5.00	5.00
GW0649	1208028-05	08/09/12 00:00	5.00	5.00
GW0650	1208028-07	08/09/12 00:00	5.00	5.00
GW0662	1208028-09	08/09/12 00:00	5.00	5.00
GW0663	1208028-11	08/09/12 00:00	5.00	5.00
GW0677	1208028-13	08/09/12 00:00	5.00	5.00
GW0710	1208028-15	08/09/12 00:00	5.00	5.00
GW0711	1208028-17	08/09/12 00:00	5.00	5.00
GW0712	1208028-19	08/09/12 00:00	5.00	5.00
Blank	2H09007-BLK1	08/09/12 00:00	5.00	5.00
LCS	2H09007-BS1	08/09/12 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0427TUN1.D	Injection Date:	04/27/12
Instrument ID:	MS-VOA6	Injection Time:	08:36
Sequence:	2D12109	Lab Sample ID:	2D12109-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.1	PASS
75	30 - 60% of 95	46.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.51	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.6	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.42	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	07/30/12
Instrument ID:	MS-VOA3	Injection Time:	08:21
Sequence:	2G21301	Lab Sample ID:	2G21301-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.1	PASS
75	30 - 60% of 95	44	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.12	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	107	PASS
175	5 - 9% of 174	7.07	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.17	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0801TUN1.D	Injection Date:	08/01/12
Instrument ID:	MS-VOA6	Injection Time:	08:02
Sequence:	2H21505	Lab Sample ID:	2H21505-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.1	PASS
75	30 - 60% of 95	48.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.85	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76.5	PASS
175	5 - 9% of 174	7.29	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.38	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0807TUN1.D	Injection Date:	08/07/12
Instrument ID:	MS-VOA6	Injection Time:	07:14
Sequence:	2H22201	Lab Sample ID:	2H22201-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.2	PASS
75	30 - 60% of 95	48.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.78	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	72	PASS
175	5 - 9% of 174	7.17	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	6.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQTUN1.D	Injection Date:	08/09/12
Instrument ID:	MS-VOA3	Injection Time:	10:53
Sequence:	2H22302	Lab Sample ID:	2H22302-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.2	PASS
75	30 - 60% of 95	45.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.79	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	110	PASS
175	5 - 9% of 174	6.69	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.94	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2D12109	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2D12109-TUN1	0427TUN1.D	04/27/12 08:36
Cal Standard	2D12109-CAL1	0427CAL1.D	04/27/12 09:57
Cal Standard	2D12109-CAL2	0427CAL2.D	04/27/12 10:24
Cal Standard	2D12109-CAL3	0427CAL3.D	04/27/12 10:51
Cal Standard	2D12109-CAL4	0427CAL4.D	04/27/12 11:17
Cal Standard	2D12109-CAL5	0427CAL5.D	04/27/12 11:44
Cal Standard	2D12109-CAL6	0427CAL6.D	04/27/12 12:11
Cal Standard	2D12109-CAL7	0427CAL7.D	04/27/12 12:38
Cal Standard	2D12109-CAL8	0427CAL8.D	04/27/12 13:05
Cal Standard	2D12109-CAL9	0427CAL9.D	04/27/12 13:31
Initial Cal Check	2D12109-ICV2	0427ICV2.D	04/27/12 14:52

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2G21301	Instrument:	MS-VOA3
Calibration:	2213002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G21301-TUN1	SEQTUN1.D	07/30/12 08:21
Cal Standard	2G21301-CAL1	SEQCAL1.D	07/30/12 09:48
Cal Standard	2G21301-CAL2	SEQCAL2.D	07/30/12 10:17
Cal Standard	2G21301-CAL3	SEQCAL3.D	07/30/12 10:45
Cal Standard	2G21301-CAL4	SEQCAL4.D	07/30/12 11:14
Cal Standard	2G21301-CAL5	SEQCAL5.D	07/30/12 11:42
Cal Standard	2G21301-CAL6	SEQCAL6.D	07/30/12 12:11
Cal Standard	2G21301-CAL7	SEQCAL7.D	07/30/12 12:40
Cal Standard	2G21301-CAL8	SEQCAL8.D	07/30/12 13:08
Cal Standard	2G21301-CAL9	SEQCAL9.D	07/30/12 13:37
Initial Cal Check	2G21301-ICV2	SEQICV2.D	07/30/12 15:03

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21505	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H21505-TUN1	0801TUN1.D	08/01/12 08:02
Calibration Check	2H21505-CCV1	0801CCV1.D	08/01/12 08:29
LCS	2H01003-BS1	0801LCS1.D	08/01/12 08:56
Blank	2H01003-BLK1	0801BL1.D	08/01/12 10:16
GW8219-TB	1208005-21	0800521.D	08/01/12 14:41
LCS Dup	2H01003-BSD1	0801LCD1.D	08/01/12 17:48

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22201	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H22201-TUN1	0807TUN1.D	08/07/12 07:14
Calibration Check	2H22201-CCV1	0807CCV2.D	08/07/12 08:11
LCS	2H07003-BS1	0807LCS1.D	08/07/12 08:38
Blank	2H07003-BLK1	0807BL1.D	08/07/12 09:58
GW8220-TB	1208028-23	0802823.D	08/07/12 11:19
GW8057-AB	1208028-21	0802821.D	08/07/12 12:12
GW8058-AB	1208028-22	0802822.D	08/07/12 12:39
GW0661	1208005-01	0800501.D	08/07/12 13:06
GW0678	1208005-03	0800503.D	08/07/12 13:33
GW0679	1208005-05	0800505.D	08/07/12 13:59
GW0680	1208005-07	0800507.D	08/07/12 14:26
GW0697	1208005-09	0800509D.D	08/07/12 14:53
GW0698	1208005-11	0800511.D	08/07/12 15:20
GW0723	1208005-13	0800513D.D	08/07/12 15:46
GW0724	1208005-15	0800515D.D	08/07/12 16:13
GW0725	1208005-17	0800517D.D	08/07/12 16:40
GW0726	1208005-19	0800519.D	08/07/12 17:07
LCS Dup	2H07003-BSD1	0807LCD1.D	08/07/12 17:34

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22302	Instrument:	MS-VOA3
Calibration:	2213002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H22302-TUN1	SEQTUN1.D	08/09/12 10:53
Calibration Check	2H22302-CCV1	SEQCCV1.D	08/09/12 11:23
LCS	2H09007-BS1	0809LCS1.D	08/09/12 11:51
Blank	2H09007-BLK1	0809BLK1.D	08/09/12 13:18
GW0631	1208028-01	0802801.D	08/09/12 18:05
GW0639	1208028-03	0802803.D	08/09/12 18:33
GW0649	1208028-05	0802805.D	08/09/12 19:02
GW0650	1208028-07	0802807.D	08/09/12 19:31
GW0662	1208028-09	0802809.D	08/09/12 19:59
GW0663	1208028-11	0802811.D	08/09/12 20:28
GW0677	1208028-13	0802813.D	08/09/12 20:57
GW0712	1208028-19	0802819.D	08/09/12 21:25
GW0710	1208028-15	0802815D.D	08/09/12 21:54
GW0711	1208028-17	0802817D.D	08/09/12 22:22

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21505	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H21505-CCV1)			Lab File ID: 0801CCV1.D			Analyzed: 08/01/12 08:29			
Fluorobenzene	1076554	7.97	1322112	7.95	81	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	431730	11.08	523124	11.06	83	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	358152	13.47	431103	13.45	83	50 - 200	0.0200	+/-0.50	
LCS (2H01003-BS1)			Lab File ID: 0801LCS1.D			Analyzed: 08/01/12 08:56			
Fluorobenzene	1050720	7.97	1076554	7.97	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	431362	11.07	431730	11.08	100	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	354034	13.48	358152	13.47	99	50 - 200	0.0100	+/-0.50	
Blank (2H01003-BLK1)			Lab File ID: 0801BL1.D			Analyzed: 08/01/12 10:16			
Fluorobenzene	1008483	7.97	1076554	7.97	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	409197	11.07	431730	11.08	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	335785	13.48	358152	13.47	94	50 - 200	0.0100	+/-0.50	
GW8219-TB (1208005-21)			Lab File ID: 0800521.D			Analyzed: 08/01/12 14:41			
Fluorobenzene	983459	7.97	1076554	7.97	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	402113	11.08	431730	11.08	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	330276	13.47	358152	13.47	92	50 - 200	0.0000	+/-0.50	
LCS Dup (2H01003-BSD1)			Lab File ID: 0801LCD1.D			Analyzed: 08/01/12 17:48			
Fluorobenzene	997805	7.97	1076554	7.97	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	409864	11.08	431730	11.08	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	336184	13.47	358152	13.47	94	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22201	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H22201-CCV1)			Lab File ID: 0807CCV2.D			Analyzed: 08/07/12 08:11			
Fluorobenzene	1366070	7.96	1322112	7.95	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	541720	11.08	523124	11.06	104	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	449315	13.47	431103	13.45	104	50 - 200	0.0200	+/-0.50	
LCS (2H07003-BS1)			Lab File ID: 0807LCS1.D			Analyzed: 08/07/12 08:38			
Fluorobenzene	1345836	7.96	1366070	7.96	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	543678	11.07	541720	11.08	100	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	446933	13.47	449315	13.47	99	50 - 200	0.0000	+/-0.50	
Blank (2H07003-BLK1)			Lab File ID: 0807BL1.D			Analyzed: 08/07/12 09:58			
Fluorobenzene	1314292	7.96	1366070	7.96	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	526770	11.08	541720	11.08	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	437050	13.47	449315	13.47	97	50 - 200	0.0000	+/-0.50	
GW8220-TB (1208028-23)			Lab File ID: 0802823.D			Analyzed: 08/07/12 11:19			
Fluorobenzene	1282193	7.96	1366070	7.96	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	516307	11.08	541720	11.08	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	426091	13.47	449315	13.47	95	50 - 200	0.0000	+/-0.50	
GW8057-AB (1208028-21)			Lab File ID: 0802821.D			Analyzed: 08/07/12 12:12			
Fluorobenzene	1270117	7.96	1366070	7.96	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	514987	11.07	541720	11.08	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	422951	13.47	449315	13.47	94	50 - 200	0.0000	+/-0.50	
GW8058-AB (1208028-22)			Lab File ID: 0802822.D			Analyzed: 08/07/12 12:39			
Fluorobenzene	1265251	7.95	1366070	7.96	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	514965	11.08	541720	11.08	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	418306	13.48	449315	13.47	93	50 - 200	0.0100	+/-0.50	
GW0661 (1208005-01)			Lab File ID: 0800501.D			Analyzed: 08/07/12 13:06			
Fluorobenzene	1274344	7.96	1366070	7.96	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	515620	11.07	541720	11.08	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	417509	13.47	449315	13.47	93	50 - 200	0.0000	+/-0.50	
GW0678 (1208005-03)			Lab File ID: 0800503.D			Analyzed: 08/07/12 13:33			
Fluorobenzene	1263036	7.96	1366070	7.96	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	514152	11.08	541720	11.08	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	420831	13.47	449315	13.47	94	50 - 200	0.0000	+/-0.50	
GW0679 (1208005-05)			Lab File ID: 0800505.D			Analyzed: 08/07/12 13:59			
Fluorobenzene	1266464	7.96	1366070	7.96	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	513854	11.07	541720	11.08	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	414110	13.47	449315	13.47	92	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22201	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0680 (1208005-07)			Lab File ID: 0800507.D			Analyzed: 08/07/12 14:26			
Fluorobenzene	1253650	7.96	1366070	7.96	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	509649	11.08	541720	11.08	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	412176	13.47	449315	13.47	92	50 - 200	0.0000	+/-0.50	
GW0697 (1208005-09)			Lab File ID: 0800509D.D			Analyzed: 08/07/12 14:53			
Fluorobenzene	1255819	7.96	1366070	7.96	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	498556	11.07	541720	11.08	92	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	396819	13.47	449315	13.47	88	50 - 200	0.0000	+/-0.50	
GW0698 (1208005-11)			Lab File ID: 0800511.D			Analyzed: 08/07/12 15:20			
Fluorobenzene	1241390	7.96	1366070	7.96	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	513589	11.07	541720	11.08	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	415053	13.47	449315	13.47	92	50 - 200	0.0000	+/-0.50	
GW0723 (1208005-13)			Lab File ID: 0800513D.D			Analyzed: 08/07/12 15:46			
Fluorobenzene	1254135	7.96	1366070	7.96	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	502176	11.08	541720	11.08	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	388103	13.47	449315	13.47	86	50 - 200	0.0000	+/-0.50	
GW0724 (1208005-15)			Lab File ID: 0800515D.D			Analyzed: 08/07/12 16:13			
Fluorobenzene	1240761	7.97	1366070	7.96	91	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	496141	11.08	541720	11.08	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	389358	13.47	449315	13.47	87	50 - 200	0.0000	+/-0.50	
GW0725 (1208005-17)			Lab File ID: 0800517D.D			Analyzed: 08/07/12 16:40			
Fluorobenzene	1254541	7.97	1366070	7.96	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	494242	11.08	541720	11.08	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	388634	13.47	449315	13.47	86	50 - 200	0.0000	+/-0.50	
GW0726 (1208005-19)			Lab File ID: 0800519.D			Analyzed: 08/07/12 17:07			
Fluorobenzene	1257555	7.97	1366070	7.96	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	513122	11.08	541720	11.08	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	407148	13.47	449315	13.47	91	50 - 200	0.0000	+/-0.50	
LCS Dup (2H07003-BSD1)			Lab File ID: 0807LCD1.D			Analyzed: 08/07/12 17:34			
Fluorobenzene	1247301	7.96	1366070	7.96	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	513734	11.08	541720	11.08	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	413678	13.48	449315	13.47	92	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22302	Instrument:	MS-VOA3
		Calibration:	2213002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H22302-CCV1)			Lab File ID: SEQCCV1.D			Analyzed: 08/09/12 11:23			
Fluorobenzene	431667	7.773	424767	7.767	102	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	194094	10.912	180527	10.912	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	282547	13.321	265672	13.321	106	50 - 200	0.0000	+/-0.50	
LCS (2H09007-BS1)			Lab File ID: 0809LCS1.D			Analyzed: 08/09/12 11:51			
Fluorobenzene	443474	7.773	431667	7.773	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	198425	10.918	194094	10.912	102	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	290040	13.321	282547	13.321	103	50 - 200	0.0000	+/-0.50	
Blank (2H09007-BLK1)			Lab File ID: 0809BLK1.D			Analyzed: 08/09/12 13:18			
Fluorobenzene	401873	7.773	431667	7.773	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	185787	10.912	194094	10.912	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	255070	13.322	282547	13.321	90	50 - 200	0.0010	+/-0.50	
GW0631 (1208028-01)			Lab File ID: 0802801.D			Analyzed: 08/09/12 18:05			
Fluorobenzene	399807	7.767	431667	7.773	93	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	173560	10.918	194094	10.912	89	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	247401	13.321	282547	13.321	88	50 - 200	0.0000	+/-0.50	
GW0639 (1208028-03)			Lab File ID: 0802803.D			Analyzed: 08/09/12 18:33			
Fluorobenzene	397262	7.773	431667	7.773	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	177501	10.912	194094	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	249625	13.322	282547	13.321	88	50 - 200	0.0010	+/-0.50	
GW0649 (1208028-05)			Lab File ID: 0802805.D			Analyzed: 08/09/12 19:02			
Fluorobenzene	391249	7.767	431667	7.773	91	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	177121	10.912	194094	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	247818	13.322	282547	13.321	88	50 - 200	0.0010	+/-0.50	
GW0650 (1208028-07)			Lab File ID: 0802807.D			Analyzed: 08/09/12 19:31			
Fluorobenzene	389099	7.767	431667	7.773	90	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	176403	10.918	194094	10.912	91	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	242397	13.321	282547	13.321	86	50 - 200	0.0000	+/-0.50	
GW0662 (1208028-09)			Lab File ID: 0802809.D			Analyzed: 08/09/12 19:59			
Fluorobenzene	380881	7.773	431667	7.773	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	178898	10.912	194094	10.912	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	246709	13.321	282547	13.321	87	50 - 200	0.0000	+/-0.50	
GW0663 (1208028-11)			Lab File ID: 0802811.D			Analyzed: 08/09/12 20:28			
Fluorobenzene	388254	7.767	431667	7.773	90	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	174803	10.912	194094	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	248227	13.321	282547	13.321	88	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22302	Instrument:	MS-VOA3
		Calibration:	2213002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0677 (1208028-13)			Lab File ID: 0802813.D			Analyzed: 08/09/12 20:57			
Fluorobenzene	384643	7.773	431667	7.773	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	176361	10.912	194094	10.912	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	249879	13.321	282547	13.321	88	50 - 200	0.0000	+/-0.50	
GW0712 (1208028-19)			Lab File ID: 0802819.D			Analyzed: 08/09/12 21:25			
Fluorobenzene	382797	7.767	431667	7.773	89	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	171445	10.912	194094	10.912	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	240497	13.321	282547	13.321	85	50 - 200	0.0000	+/-0.50	
GW0710 (1208028-15)			Lab File ID: 0802815D.D			Analyzed: 08/09/12 21:54			
Fluorobenzene	399003	7.767	431667	7.773	92	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	175503	10.912	194094	10.912	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	243502	13.321	282547	13.321	86	50 - 200	0.0000	+/-0.50	
GW0711 (1208028-17)			Lab File ID: 0802817D.D			Analyzed: 08/09/12 22:22			
Fluorobenzene	386342	7.773	431667	7.773	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	171573	10.918	194094	10.912	88	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	244461	13.321	282547	13.321	87	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.1801176~~	2	0.1071343	4	9.755528E-02	10	8.601011E-02	20	8.151624E-02	100	8.590758E-02
Acrolein	2.502	~~0.0479271~~	5.005	4.244036E-02	10.01	4.136675E-02	25.02	3.939721E-02	50.05	0.0321366	250.2	3.434267E-02
Acrylonitrile	2.498	0.0912397	4.997	9.137988E-02	9.994	8.764754E-02	24.98	7.828111E-02	49.97	8.547037E-02	249.8	7.914204E-02
Benzene	0.5	0.9629495	1	0.9130717	2	0.916093	5	0.9172007	10	0.9526808	50	0.9448895
Bromobenzene	0.5	0.7095771	1	0.6910001	2	0.6980563	5	0.6819994	10	0.7146448	50	0.7114784
Bromochloromethane	0.5	0.1168124	1	0.1114805	2	0.1161442	5	0.11817	10	0.1248881	50	0.1241516
Tert-Amyl Methyl Ether	0.5	0.6591204	1	0.6427836	2	0.6485742	5	0.640684	10	0.6711781	50	0.6883959
Bromodichloromethane	0.5	0.2615357	1	0.2642326	2	0.2727676	5	0.269369	10	0.2959036	50	0.309363
Bromoform	0.5	0.2077016	1	0.2071471	2	0.2074382	5	0.2265467	10	0.2487134	50	0.3191807
Bromomethane	0.5	0.1557798	1	0.1508752	2	0.1465176	5	0.1292704	10	0.1574828	50	0.1505822
Bromofluorobenzene	30	0.8747748	35	0.8431836	40	0.8430485	50	0.8222031	60	0.8076482	70	0.800359
n-Butylbenzene	0.5	2.036998	1	1.955154	2	1.893978	5	1.907572	10	1.994854	50	2.058918
2-Butanone	1	0.1826121	2	0.1688407	4	0.1440387	10	0.1417527	20	0.1393668	100	0.1451565
sec-Butylbenzene	0.5	2.724093	1	2.626513	2	2.545937	5	2.586022	10	2.672613	50	2.779686
tert-Butylbenzene	0.5	1.9504	1	1.863799	2	1.871307	5	1.89602	10	1.975223	50	2.024437
Carbon disulfide	0.5	0.5205995	1	0.5309232	2	0.4872952	5	0.4978307	10	0.5944804	50	0.5476684
Carbon tetrachloride	0.5	0.1888145	1	0.1838791	2	0.1951106	5	0.1963767	10	0.2119815	50	0.2398043
Chlorobenzene	0.5	1.552623	1	1.445801	2	1.427301	5	1.445921	10	1.476692	50	1.449688
Chloroethane	0.5	0.1512853	1	0.1580256	2	0.1500205	5	0.1347753	10	0.1601011	50	0.1404982
Chloroform	0.5	0.4405522	1	0.4151525	2	0.4107461	5	0.40001	10	0.4222335	50	0.4127237
2-Chloroethyl vinyl ether	0.9975	0.1565532	1.995	0.149674	3.99	0.1581098	9.975	0.1611502	19.95	0.1675079	99.75	0.1699233
Chloromethane	0.5	0.3788425	1	0.2596072	2	0.2885362	5	0.2603289	10	0.2827593	50	0.2739572
1-Chlorohexane	0.5	0.9700645	1	0.7938692	2	0.7294273	5	0.6956974	10	0.6994101	50	0.7180541
2-Chlorotoluene	0.5	2.151769	1	2.081807	2	2.01671	5	2.028643	10	2.114715	50	2.108333
4-Chlorotoluene	0.5	2.501631	1	2.404381	2	2.29168	5	2.304939	10	2.419026	50	2.373863
Cyclohexane	0.5	0.4140795	1	0.3786403	2	0.377698	5	0.3938017	10	0.4063337	50	0.4162962
Dibromochloromethane	0.5	0.3676284	1	0.3711177	2	0.3854266	5	0.406309	10	0.4467098	50	0.518439
1,2-Dibromo-3-chloropropane	0.5	~~8.923491E-02~~	1	8.897867E-02	2	9.772513E-02	5	0.1032282	10	0.1102168	50	0.1329612
1,2-Dibromoethane (EDB)	0.5	0.5309435	1	0.5150024	2	0.5338531	5	0.5384039	10	0.5607714	50	0.5646662
Dibromomethane	0.5	0.1576675	1	0.1522382	2	0.1575075	5	0.157498	10	0.1661466	50	0.1658159
1,2-Dichlorobenzene	0.5	1.256783	1	1.219071	2	1.149309	5	1.153506	10	1.207395	50	1.208944

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.31396	1	1.244443	2	1.229276	5	1.221355	10	1.265212	50	1.247947
1,4-Dichlorobenzene	0.5	1.35143	1	1.27373	2	1.227318	5	1.248718	10	1.277693	50	1.255675
Dichlorodifluoromethane	0.5	0.1683195	1	0.1611093	2	0.1663599	5	0.1724241	10	0.2130691	50	0.2174111
1,1-Dichloroethane	0.5	0.4524627	1	0.4473073	2	0.4550976	5	0.4422696	10	0.472133	50	0.4719491
1,2-Dichloroethane	0.5	0.3542575	1	0.342508	2	0.3494061	5	0.3406776	10	0.3634142	50	0.3579977
1,1-Dichloroethene	0.5	0.18023	1	0.1829182	2	0.1878138	5	0.1836743	10	0.1785758	50	0.178688
cis-1,2-Dichloroethene	0.5	0.243333	1	0.2439208	2	0.2514144	5	0.2446177	10	0.2538203	50	0.2475189
trans-1,2-Dichloroethene	0.5	0.238344	1	0.2291282	2	0.2293002	5	0.2266238	10	0.2421863	50	0.2363768
1,2-Dichloroethene (total)	1	0.2408385	2	0.2365245	4	0.2403573	10	0.2356207	20	0.2480033	100	0.2419478
1,2-Dichloropropane	0.5	0.2559176	1	0.2553169	2	0.2579837	5	0.2545473	10	0.2721854	50	0.2647032
1,3-Dichloropropane	0.5	0.9192403	1	0.8614716	2	0.8881191	5	0.8952218	10	0.9160917	50	0.9031252
2,2-Dichloropropane	0.5	0.2989301	1	0.2795391	2	0.2842163	5	0.2882842	10	0.2981496	50	0.3006877
1,1-Dichloropropene	0.5	0.3266612	1	0.3095935	2	0.3151158	5	0.3150822	10	0.3289735	50	0.3266598
cis-1,3-Dichloropropene	0.5	0.3323243	1	0.3255927	2	0.3344992	5	0.3321005	10	0.3621164	50	0.3671761
trans-1,3-Dichloropropene	0.5	0.756377	1	0.7372835	2	0.7589611	5	0.793418	10	0.8336283	50	0.8665259
Diisopropyl Ether	0.5	1.034008	1	1.001045	2	0.994567	5	1.003313	10	1.050524	50	1.02579
Ethylbenzene	0.5	2.554537	1	2.403752	2	2.427694	5	2.47895	10	2.544432	50	2.548168
Ethyl tert-Butyl Ether	0.5	0.7646965	1	0.7663081	2	0.7635321	5	0.768298	10	0.7948713	50	0.785385
Ethyl Methacrylate	0.5	0.7206871	1	0.7056801	2	0.7205363	5	0.7248645	10	0.7575873	50	0.8002675
Hexachlorobutadiene	0.5	0.3296002	1	0.2917494	2	0.2774432	5	0.2739577	10	0.2817864	50	0.2922522
2-Hexanone	1	0.5079596	2	0.4683205	4	0.4739721	10	0.4778848	20	0.4662819	100	0.4970752
Iodomethane	0.5	~~0.13924~~	1	0.1819574	2	0.2066936	5	0.2359951	10	0.2660553	50	0.2769532
Isopropylbenzene	0.5	1.970849	1	2.025179	2	2.011303	5	2.033346	10	2.09977	50	2.126888
p-Isopropyltoluene	0.5	2.141915	1	2.020368	2	2.033851	5	2.052498	10	2.128308	50	2.209439
Methylene chloride	0.5	0.2501197	1	0.2485463	2	0.2087417	5	0.2001706	10	0.2287221	50	0.199494
Methyl Acetate	0.5	0.1741624	1	0.1859125	2	0.1795322	5	0.1606203	10	0.1988943	50	0.1711726
Methylcyclohexane	0.5	0.3150204	1	0.2941306	2	0.2971312	5	0.2965755	10	0.3095118	50	0.3219644
Naphthalene	0.5	1.302164	1	1.248637	2	1.265274	5	1.328147	10	1.372535	50	1.492241
Methyl Methacrylate	0.5	0.2725473	1	0.2654616	2	0.2575361	5	0.2483572	10	0.2621918	50	0.2696424
4-Methyl-2-pentanone	1	0.2825701	2	0.2756957	4	0.2693934	10	0.2640729	20	0.2713857	100	0.2843169
Methyl t-Butyl Ether	0.5	0.6081975	1	0.5833675	2	0.5873237	5	0.5923205	10	0.6148058	50	0.6098324

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	3.417295	1	3.267956	2	3.258523	5	3.233046	10	3.421802	50	3.461269
Styrene	0.5	1.536359	1	1.469448	2	1.497588	5	1.569024	10	1.628757	50	1.638668
1,1,2,2-Tetrachloroethane	0.5	0.8036693	1	0.8065395	2	0.79348	5	0.8067446	10	0.8366444	50	0.8542512
1,1,1,2-Tetrachloroethane	0.5	0.3596094	1	0.3606018	2	0.3660739	5	0.3833928	10	0.4118206	50	0.4541538
tert-Butyl alcohol	2.5	1.889493E-02	5	1.790302E-02	10	1.798231E-02	25	1.809741E-02	50	1.766726E-02	250	1.700114E-02
Tetrachloroethene	0.5	0.5635839	1	0.5069346	2	0.4861446	5	0.5090762	10	0.5212109	50	0.5180552
Toluene	0.5	1.362766	1	1.279828	2	1.326163	5	1.304249	10	1.354235	50	1.317459
1,2,3-Trichlorobenzene	0.5	0.6296404	1	0.599575	2	0.5919841	5	0.6095713	10	0.6370157	50	0.6649169
1,2,4-Trichlorobenzene	0.5	0.7606478	1	0.7021836	2	0.675145	5	0.7034746	10	0.7225698	50	0.7525264
1,1,2-Trichloroethane	0.5	0.435281	1	0.4545218	2	0.4347619	5	0.4350976	10	0.4488943	50	0.4434502
1,1,1-Trichloroethane	0.5	0.2733114	1	0.2661096	2	0.271391	5	0.2817628	10	0.2992965	50	0.3088854
Tetrahydrofuran	0.5	2.521422E-02	1	2.992029E-02	2	2.637809E-02	5	2.622168E-02	10	2.670446E-02	50	2.675506E-02
Trichloroethene	0.5	0.2406362	1	0.2316979	2	0.2307327	5	0.2279489	10	0.2397644	50	0.2392643
Trichlorofluoromethane	0.5	0.3011324	1	0.2663331	2	0.2980937	5	0.3116287	10	0.3175633	50	0.3356837
1,2,3-Trichloropropane	0.5	0.1603786	1	0.1652503	2	0.1762776	5	0.1711143	10	0.1721076	50	0.1752998
1,3,5-Trimethylbenzene	0.5	2.21644	1	2.114309	2	2.097947	5	2.126694	10	2.221626	50	2.240507
1,2,4-Trimethylbenzene	0.5	2.210195	1	2.115148	2	2.089978	5	2.1486	10	2.246429	50	2.259796
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1723646	1	0.1922586	2	0.186773	5	0.184414	10	0.1790899	50	0.1852501
Vinyl chloride	0.5	0.2045902	1	0.185622	2	0.1845795	5	0.1630709	10	0.2004388	50	0.1813677
m,p-Xylene	1	2.002417	2	1.894036	4	1.873731	10	1.89301	20	1.962783	100	1.937909
o-Xylene	0.5	1.980788	1	1.849802	2	1.942643	5	1.992388	10	2.013759	50	1.980534
Vinyl acetate	0.996	0.5876486	1.992	0.5757829	3.984	0.5986996	9.96	0.6331327	19.92	0.6536054	99.62	0.6948853
Xylenes (total)	1.5	1.995207	3	1.879291	6	1.896702	15	1.926136	30	1.979775	150	1.952118
Dibromofluoromethane	30	0.2695277	35	0.2630432	40	0.259221	50	0.2545377	60	0.2525862	70	0.2515808
1,2-Dichloroethane-d4	30	6.300259E-02	35	6.171312E-02	40	6.123085E-02	50	5.958058E-02	60	5.883793E-02	70	5.849536E-02
Toluene-d8	30	2.308584	35	2.221578	40	2.199072	50	2.156851	60	2.10421	70	2.074859
tert-Amyl alcohol	2.5	1.241385E-02	5	1.288427E-02	10	0.0132215	25	1.345847E-02	50	1.370272E-02	250	1.485528E-02
tert-Amyl ethyl ether	0.5	0.6285127	1	0.6134666	2	0.6092029	5	0.6183879	10	0.646779	50	0.6433191

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	7.471387E-02	300	0.0770132	400	7.404267E-02						
Acrolein	500.5	3.050923E-02	750.8	3.130578E-02	1001	3.056155E-02						
Acrylonitrile	499.7	8.365227E-02	749.6	8.621994E-02	999.4	0.084467						
Benzene	100	0.9377479	150	0.9336495	200	0.9053141						
Bromobenzene	100	0.7182263	150	0.7272978	200	0.7267507						
Bromochloromethane	100	0.1224581	150	0.1222339	200	0.1193159						
Tert-Amyl Methyl Ether	100	0.6749814	150	0.6759677	200	0.6696095						
Bromodichloromethane	100	0.3185574	150	0.318914	200	0.3161989						
Bromoform	100	0.3506586	150	0.3711772	200	0.3885488						
Bromomethane	100	0.1604913	150	0.155116	200	0.1514669						
Bromofluorobenzene	30	0.8958014	30	0.9107067	30	0.9258792						
n-Butylbenzene	100	2.05639	150	2.078431	200	1.986144						
2-Butanone	200	0.1417989	300	0.1447502	400	0.1452955						
sec-Butylbenzene	100	2.756524	150	2.77685	200	2.684998						
tert-Butylbenzene	100	2.028362	150	2.044402	200	2.006021						
Carbon disulfide	100	0.5934856	150	0.6030974	200	0.5664481						
Carbon tetrachloride	100	0.2494153	150	0.2610243	200	0.2548589						
Chlorobenzene	100	1.458923	150	1.474705	200	1.487455						
Chloroethane	100	0.1576256	150	0.1414764	200	0.1359614						
Chloroform	100	0.4118854	150	0.4084187	200	0.4033273						
2-Chloroethyl vinyl ether	199.5	0.1668353	299.2	0.1669099	399	0.1614332						
Chloromethane	100	0.2780356	150	0.2706652	200	0.2664843						
1-Chlorohexane	100	0.7097214	150	0.7231164	200	0.7256518						
2-Chlorotoluene	100	2.102836	150	2.118416	200	2.080614						
4-Chlorotoluene	100	2.392896	150	2.402408	200	2.364665						
Cyclohexane	100	0.4005054	150	0.406149	200	0.3857435						
Dibromochloromethane	100	0.5469699	150	0.5789153	200	0.5931025						
1,2-Dibromo-3-chloropropane	100	0.1384731	150	~~0.146163~~	200	~~0.1495986~~						
1,2-Dibromoethane (EDB)	100	0.566303	150	0.5748398	200	0.5788857						
Dibromomethane	100	0.1617228	150	0.1596578	200	0.1595766						
1,2-Dichlorobenzene	100	1.207977	150	1.222466	200	1.207476						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.254005	150	1.276444	200	1.260036						
1,4-Dichlorobenzene	100	1.258258	150	1.262381	200	1.257068						
Dichlorodifluoromethane	100	0.2148317	150	0.2148874	200	0.2039158						
1,1-Dichloroethane	100	0.4643047	150	0.4694452	200	0.4603373						
1,2-Dichloroethane	100	0.352667	150	0.3533085	200	0.3449133						
1,1-Dichloroethene	100	0.1797146	150	0.1790365	200	0.1842444						
cis-1,2-Dichloroethene	100	0.2459143	150	0.2455829	200	0.2395434						
trans-1,2-Dichloroethene	100	0.2358056	150	0.2361538	200	0.228198						
1,2-Dichloroethene (total)	200	0.2408599	300	0.2408683	400	0.2338707						
1,2-Dichloropropane	100	0.2602117	150	0.2597686	200	0.2530029						
1,3-Dichloropropane	100	0.8901245	150	0.900473	200	0.9141893						
2,2-Dichloropropane	100	0.298285	150	0.3023606	200	0.2918012						
1,1-Dichloropropene	100	0.3205383	150	0.3197314	200	0.3087253						
cis-1,3-Dichloropropene	100	0.3710314	150	0.3742965	200	0.3698838						
trans-1,3-Dichloropropene	100	0.8900545	150	0.8931115	200	0.8864539						
Diisopropyl Ether	100	1.010086	150	1.017062	200	0.9930346						
Ethylbenzene	100	2.520833	150	2.567098	200	2.554625						
Ethyl tert-Butyl Ether	100	0.7696659	150	0.7759792	200	0.7615729						
Ethyl Methacrylate	100	0.7924296	150	0.8186302	200	0.8176895						
Hexachlorobutadiene	100	0.2985679	150	0.3142088	200	0.3170123						
2-Hexanone	200	0.4787794	300	0.496152	400	0.4952994						
Iodomethane	100	0.305896	150	0.2941182	200	0.3029534						
Isopropylbenzene	100	2.122517	150	2.140749	200	2.117771						
p-Isopropyltoluene	100	2.181694	150	2.190265	200	2.152492						
Methylene chloride	100	0.2123295	150	0.214426	200	0.2085143						
Methyl Acetate	100	0.1765423	150	0.1855354	200	0.1808324						
Methylcyclohexane	100	0.3083533	150	0.3113591	200	0.300306						
Naphthalene	100	1.540451	150	1.597726	200	1.470014						
Methyl Methacrylate	100	0.2620414	150	0.2648154	200	0.2573468						
4-Methyl-2-pentanone	200	0.2747214	300	0.2768126	400	0.2696402						
Methyl t-Butyl Ether	100	0.6057527	150	0.6179849	200	0.6113409						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	3.401236	150	3.47307	200	3.363618						
Styrene	100	1.632015	150	1.632322	200	1.63771						
1,1,2,2-Tetrachloroethane	100	0.8383679	150	0.8603034	200	0.8493742						
1,1,1,2-Tetrachloroethane	100	0.4730294	150	0.4863279	200	0.4963508						
tert-Butyl alcohol	500	1.770425E-02	750	1.730916E-02	1000	0.0173273						
Tetrachloroethene	100	0.5191535	150	0.5319872	200	0.5328344						
Toluene	100	1.292795	150	1.278975	200	1.245466						
1,2,3-Trichlorobenzene	100	0.6721853	150	0.701615	200	0.6822393						
1,2,4-Trichlorobenzene	100	0.7687008	150	0.7914642	200	0.7669205						
1,1,2-Trichloroethane	100	0.4415981	150	0.444404	200	0.4457277						
1,1,1-Trichloroethane	100	0.3108855	150	0.3149333	200	0.3105973						
Tetrahydrofuran	100	2.659779E-02	150	2.681471E-02	200	2.683712E-02						
Trichloroethene	100	0.2333937	150	0.2353471	200	0.2279421						
Trichlorofluoromethane	100	0.3128938	150	0.3352327	200	0.3205547						
1,2,3-Trichloropropane	100	0.1761729	150	0.1767071	200	0.1812664						
1,3,5-Trimethylbenzene	100	2.256857	150	2.277194	200	2.230794						
1,2,4-Trimethylbenzene	100	2.285599	150	2.283346	200	2.234423						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1942506	150	0.1822407	200	0.1862248						
Vinyl chloride	100	0.1896973	150	0.1819323	200	0.1721193						
m,p-Xylene	200	1.887316	300	1.871684	400	1.733385						
o-Xylene	100	1.967587	150	1.954629	200	1.949325						
Vinyl acetate	199.2	0.6856328	298.9	0.6976122	398.5	0.6933485						
Xylenes (total)	300	1.914074	450	1.899333	600	1.805365						
Dibromofluoromethane	30	0.2729593	30	0.2727375	30	0.2718363						
1,2-Dichloroethane-d4	30	6.267166E-02	30	0.063738	30	6.480673E-02						
Toluene-d8	30	2.351079	30	2.399675	30	2.438261						
tert-Amyl alcohol	500	1.467905E-02	750	0.0151569	1000	1.531081E-02						
tert-Amyl ethyl ether	100	0.6392434	150	0.6338444	200	0.6188017						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_059	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2121003		Instrument:	MS-VOA6	
Matrix:	Water		Calibration Dates:	4/27/12 9:57	4/27/12 13:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	8.548666E-02	13.62246	3.79875	9.274653E-02			15	
Acrolein	3.525752E-02	14.25592	3.67625	0.1406711			15	
Acrylonitrile	8.527776E-02	5.393199	4.643333	0.1072277			15	
Benzene	0.9315107	2.122697	7.685555	9.539806E-02			15	
Bromobenzene	0.7087812	2.200287	12.42	2.226331E-02			15	
Bromochloromethane	0.1195172	3.640977	6.781111	8.876222E-02			15	
Tert-Amyl Methyl Ether	0.6634772	2.496612	7.881111	4.329758E-02			15	
Bromodichloromethane	0.2918713	8.490543	8.666667	5.634014E-02			15	
Bromoform	0.2807903	27.07999	11.82333	0.0385467		0.9999206	SPCC (0.1)	
Bromomethane	0.1508425	6.0413	2.827778	0.1564675			15	
Bromofluorobenzene	0.8581783	5.320451	12.25222	3.512838E-02			15	
n-Butylbenzene	1.996493	3.36345	13.84778	3.214818E-02			15	
2-Butanone	0.1504013	9.901311	6.253333	8.003784E-02			15	
sec-Butylbenzene	2.683693	3.138093	13.30222	2.896654E-02			15	
tert-Butylbenzene	1.962219	3.583794	13.07222	3.164283E-02			15	
Carbon disulfide	0.549092	7.8436	4.795556	0.1085594			15	
Carbon tetrachloride	0.2201406	14.06956	7.652222	5.963417E-02			15	
Chlorobenzene	1.46879	2.490997	11.1	1.265792E-02			SPCC (0.3)	
Chloroethane	0.1477522	6.651077	2.965556	0.177739			15	
Chloroform	0.4138944	2.873397	6.754445	7.677392E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1620108	4.014319	9.023334	5.188695E-02			15	
Chloromethane	0.2843574	12.91666	2.231111	0.1482605			SPCC (0.1)	
1-Chlorohexane	0.751668	11.54226	11.06222	3.856191E-02			15	
2-Chlorotoluene	2.089316	2.074047	12.63333	4.148019E-02			15	
4-Chlorotoluene	2.383943	2.617429	12.69444	3.969977E-02			15	
Cyclohexane	0.3976941	3.654048	7.583333	6.438874E-02			15	
Dibromochloromethane	0.4682909	19.58175	10.33111	3.516709E-02		0.9999077	0.99	
1,2-Dibromo-3-chloropropane	0.1119305	17.66175	14.45	1.563473E-02		0.9998905	0.99	
1,2-Dibromoethane (EDB)	0.5515188	4.059789	10.55	1.218384E-02			15	
Dibromomethane	0.159759	2.732959	8.607778	5.269306E-02			15	
1,2-Dichlorobenzene	1.203659	2.780049	13.81	8.95784E-03			15	
1,3-Dichlorobenzene	1.256964	2.176385	13.39333	3.806423E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2121003	Instrument:	MS-VOA6	
Matrix:	Water	Calibration Dates:	4/27/12 9:57	4/27/12 13:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.26803	2.71936	13.48444	3.695711E-02			15	
Dichlorodifluoromethane	0.1924809	12.76598	2.02	0.0136054			15	
1,1-Dichloroethane	0.4594785	2.373803	5.8	1.821231E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3510167	2.112895	7.514445	7.102877E-02			15	
1,1-Dichloroethene	0.1816551	1.754323	4.266667	0.1186659			CCC (20)	
cis-1,2-Dichloroethene	0.2461851	1.74528	6.51	7.808219E-02			15	
trans-1,2-Dichloroethene	0.2335685	2.303894	5.422222	0.1220387			15	
1,2-Dichloroethene (total)	0.2398768	1.736859	6.51	7.808219E-02			15	
1,2-Dichloropropane	0.259293	2.312194	8.492222	4.863254E-02			CCC (20)	
1,3-Dichloropropane	0.8986729	1.994678	10.07333	4.862251E-02			15	
2,2-Dichloropropane	0.2935838	2.733695	6.614444	7.823592E-02			15	
1,1-Dichloropropene	0.319009	2.335894	7.533333	6.861941E-02			15	
cis-1,3-Dichloropropene	0.3521134	5.766677	9.241111	3.306317E-02			15	
trans-1,3-Dichloropropene	0.8239793	7.699482	9.71	1.779117E-02			15	
Diisopropyl Ether	1.014381	1.907698	6.173333	0.0812548			15	
Ethylbenzene	2.511121	2.398092	11.24778	3.875475E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.7722566	1.449832	6.641111	5.284476E-02			15	
Ethyl Methacrylate	0.7620413	5.994742	9.901111	0.0370684			15	
Hexachlorobutadiene	0.2973976	6.462892	15.81111	2.267311E-02			15	
2-Hexanone	0.4846361	3.044602	10.01222	6.526454E-02			15	
Iodomethane	0.2588278	17.84729	4.46125	7.694245E-02		0.9994425	0.99	
Isopropylbenzene	2.072041	2.992551	12.14222	3.773169E-02			15	
p-Isopropyltoluene	2.123426	3.336119	13.44222	3.452873E-02			15	
Methylene chloride	0.2190071	8.77048	4.755556	0.1109935			15	
Methyl Acetate	0.1792449	5.975949	4.631111	7.186884E-02			15	
Methylcyclohexane	0.3060391	3.107595	8.814445	5.861741E-02			15	
Naphthalene	1.40191	9.049186	15.68111	0.0229818			15	
Methyl Methacrylate	0.2622156	2.752967	8.627778	4.639833E-02			15	
4-Methyl-2-pentanone	0.2742899	2.362881	9.17	2.223127E-02			15	
Methyl t-Butyl Ether	0.6034362	2.078315	5.425555	0.0958311			15	
n-Propylbenzene	3.366424	2.705707	12.55111	4.793217E-02			15	
Styrene	1.582432	4.214249	11.72	2.468036E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2121003	Instrument:	MS-VOA6	
Matrix:	Water	Calibration Dates:	4/27/12 9:57	4/27/12 13:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.8277083	3.040542	12.06444	0.0394937			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4212623	13.45017	11.14111	3.262536E-02			15	
tert-Butyl alcohol	0.0177652	3.114812	4.438889	0.1349856			15	
Tetrachloroethene	0.5209978	4.094883	10.44222	4.320136E-02			15	
Toluene	1.306882	2.880498	9.711111	3.882733E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6431937	6.053357	15.96444	3.389544E-02			15	
1,2,4-Trichlorobenzene	0.7381814	5.252041	15.53	7.599921E-03			15	
1,1,2-Trichloroethane	0.4426374	1.531824	9.867778	4.848003E-02			15	
1,1,1-Trichloroethane	0.2930192	6.725129	7.317778	5.889306E-02			15	
Tetrahydrofuran	2.682705E-02	4.716978	6.973333	7.377964E-02			15	
Trichloroethene	0.2340808	2.116677	8.442222	4.746849E-02			15	
Trichlorofluoromethane	0.3110129	6.814927	3.471111	0.1732996			15	
1,2,3-Trichloropropane	0.1727305	3.725216	12.19333	3.802018E-02			15	
1,3,5-Trimethylbenzene	2.198041	3.035595	12.73222	3.176895E-02			15	
1,2,4-Trimethylbenzene	2.208168	3.306208	13.10222	3.678199E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1847629	3.554268	4.348889	7.522899E-02			15	
Vinyl chloride	0.1848242	6.933849	2.381111	0.1402005			CCC (20)	
m,p-Xylene	1.895141	3.964217	11.35333	4.439117E-02			15	
o-Xylene	1.959051	2.382637	11.75	0			15	
Vinyl acetate	0.6467053	7.665063	5.88	1.287752E-02			15	
Xylenes (total)	1.916445	2.97403	11.75	0			15	
Dibromofluoromethane	0.2631144	3.397573	6.932222	0.0649494			15	
1,2-Dichloroethane-d4	6.156409E-02	3.607168	7.423333	6.721134E-02			15	
Toluene-d8	2.250463	5.782973	9.635556	5.182899E-02			15	
tert-Amyl alcohol	1.396476E-02	7.58956	7.14	7.130057E-02			15	
tert-Amyl ethyl ether	0.6279509	2.173103	8.757778	7.543113E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	6.737113E-02	2	7.904187E-02	4	7.632403E-02	10	5.797594E-02	20	5.638314E-02	100	5.418886E-02
Acrolein	2.508	3.096123E-02	5.015	3.565937E-02	10.03	3.304684E-02	25.08	0.0328328	50.15	2.978939E-02	250.8	0.0285724
Acrylonitrile	2.498	5.935305E-02	4.997	5.881595E-02	9.994	0.0641555	24.98	6.305579E-02	49.97	6.636471E-02	249.8	6.935443E-02
Benzene	0.5	0.7988065	1	0.9747566	2	0.9465063	5	0.9135744	10	0.9653311	50	0.963034
Bromobenzene	0.5	0.6833619	1	0.6603124	2	0.726477	5	0.7338881	10	0.741921	50	0.748983
Bromochloromethane	0.5	0.1478686	1	0.1873703	2	0.187961	5	0.1819833	10	0.1842307	50	0.1948868
Tert-Amyl Methyl Ether	0.5	0.4806123	1	0.5613928	2	0.557663	5	0.5773934	10	0.6066294	50	0.6630443
Bromodichloromethane	0.5	0.3961612	1	0.4479172	2	0.4552556	5	0.4217324	10	0.432042	50	0.431309
Bromoform	0.5	0.5781258	1	0.6451791	2	0.6886235	5	0.6761026	10	0.6912341	50	0.7403898
Bromomethane	0.5	~~0.2829271~~	1	0.2151407	2	0.1921744	5	0.1537931	10	0.1607115	50	0.1659659
Bromofluorobenzene	30	0.9731723	35	0.994452	40	1.014915	50	1.025684	60	0.9860768	70	1.024169
n-Butylbenzene	0.5	1.053117	1	1.182495	2	1.289355	5	1.274521	10	1.38214	50	1.444652
2-Butanone	1	7.962761E-02	2	6.587487E-02	4	7.943398E-02	10	6.614814E-02	20	7.930151E-02	100	0.0817398
sec-Butylbenzene	0.5	1.401396	1	1.758768	2	1.878556	5	1.802391	10	2.03	50	2.094536
tert-Butylbenzene	0.5	1.261671	1	1.619347	2	1.584052	5	1.623092	10	1.756871	50	1.836203
Carbon disulfide	0.5	0.5870461	1	0.6370431	2	0.5988347	5	0.5691278	10	0.6272106	50	0.6190256
Carbon tetrachloride	0.5	0.440759	1	0.5059318	2	0.5006407	5	0.4730071	10	0.4941267	50	0.5018551
Chlorobenzene	0.5	1.798735	1	2.101293	2	2.064482	5	2.103525	10	2.085467	50	2.185676
Chloroethane	0.5	0.1339515	1	0.1349417	2	0.1339081	5	0.1304751	10	0.1462853	50	0.1414813
Chloroform	0.5	0.5342246	1	0.573682	2	0.5287707	5	0.5028317	10	0.5114676	50	0.5101984
2-Chloroethyl vinyl ether	0.9975	0.1045601	1.995	0.12276	3.99	0.1196004	9.975	0.1294288	19.95	0.140159	99.75	0.1530392
Chloromethane	0.5	0.2285241	1	0.2292653	2	0.2387233	5	0.1941871	10	0.2268271	50	0.2244223
1-Chlorohexane	0.5	0.9362728	1	0.8696212	2	0.8122463	5	0.7623178	10	0.7663316	50	0.8441239
2-Chlorotoluene	0.5	1.266846	1	1.376135	2	1.460227	5	1.430061	10	1.475243	50	1.564272
4-Chlorotoluene	0.5	1.476434	1	1.632256	2	1.613592	5	1.684243	10	1.778305	50	1.829767
Cyclohexane	0.5	0.2611027	1	0.2884769	2	0.2777681	5	0.2685931	10	0.286718	50	0.3118672
Dibromochloromethane	0.5	0.8344645	1	0.9018158	2	0.9626109	5	0.9643477	10	0.9454267	50	1.016624
1,2-Dibromo-3-chloropropane	0.5	~~0.117473~~	1	0.1497483	2	0.1392715	5	0.1554403	10	0.1474965	50	0.1767709
1,2-Dibromoethane (EDB)	0.5	0.7064769	1	0.7060728	2	0.6646577	5	0.707769	10	0.7199009	50	0.7378145
Dibromomethane	0.5	0.1628926	1	0.2008565	2	0.2061391	5	0.1757724	10	0.1914941	50	0.1868574
1,2-Dichlorobenzene	0.5	1.148338	1	1.259951	2	1.249517	5	1.208245	10	1.313284	50	1.334291

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1.138764	1	1.328758	2	1.345283	5	1.298727	10	1.356645	50	1.387766
1,4-Dichlorobenzene	0.5	1.249768	1	1.425707	2	1.399408	5	1.360202	10	1.424354	50	1.437403
Dichlorodifluoromethane	0.5	0.2318452	1	0.2424323	2	0.2427762	5	0.2351415	10	0.3046248	50	0.3009447
1,1-Dichloroethane	0.5	0.3673782	1	0.452386	2	0.4329041	5	0.4187748	10	0.4301661	50	0.4257497
1,2-Dichloroethane	0.5	0.3379627	1	0.392536	2	0.3964275	5	0.3948808	10	0.398492	50	0.3992076
1,1-Dichloroethene	0.5	0.2176119	1	0.2535245	2	0.2174151	5	0.2172405	10	0.2328348	50	0.233644
cis-1,2-Dichloroethene	0.5	0.2541441	1	0.2860829	2	0.3078643	5	0.2899342	10	0.2998496	50	0.2980089
trans-1,2-Dichloroethene	0.5	0.258256	1	0.2603873	2	0.2840683	5	0.2690133	10	0.2705786	50	0.2730673
1,2-Dichloroethene (total)	1	0.2562001	2	0.2732351	4	0.2959663	10	0.2794738	20	0.2852141	100	0.2855381
1,2-Dichloropropane	0.5	0.1821867	1	0.2252753	2	0.2229529	5	0.209364	10	0.2164861	50	0.2334376
1,3-Dichloropropane	0.5	0.8319193	1	0.9222363	2	0.9466028	5	0.941539	10	0.9698545	50	0.9943379
2,2-Dichloropropane	0.5	0.3488749	1	0.3931744	2	0.4049748	5	0.3632194	10	0.3789496	50	0.3884398
1,1-Dichloropropene	0.5	0.2944719	1	0.3294143	2	0.3800552	5	0.3205683	10	0.351477	50	0.3603546
cis-1,3-Dichloropropene	0.5	0.3112356	1	0.3784114	2	0.4030487	5	0.3907714	10	0.3999726	50	0.4279354
trans-1,3-Dichloropropene	0.5	0.8493722	1	0.8486487	2	0.9331857	5	0.9692194	10	1.00488	50	1.076993
Diisopropyl Ether	0.5	0.5388109	1	0.6036868	2	0.6416516	5	0.6374474	10	0.6694815	50	0.6957352
Ethylbenzene	0.5	2.488122	1	2.813989	2	2.813529	5	2.830781	10	3.000395	50	3.202767
Ethyl tert-Butyl Ether	0.5	0.5358061	1	0.6282651	2	0.6451427	5	0.601692	10	0.6697528	50	0.7034257
Ethyl Methacrylate	0.5	0.5199496	1	0.5456519	2	0.5788805	5	0.5936151	10	0.6130114	50	0.7217783
Hexachlorobutadiene	0.5	0.282815	1	0.2744524	2	0.2818252	5	0.2456991	10	0.2753235	50	0.2670567
2-Hexanone	1	0.2125248	2	0.2695145	4	0.244007	10	0.2711755	20	0.2674392	100	0.3079642
Iodomethane	0.5		1	0.1782731	2	0.2205452	5	0.2852799	10	0.3403608	50	0.4275286
Isopropylbenzene	0.5	2.285597	1	2.567103	2	2.600706	5	2.741539	10	2.824425	50	3.135925
p-Isopropyltoluene	0.5	1.57062	1	1.802788	2	1.841357	5	1.861054	10	1.967058	50	2.088742
Methylene chloride	0.5	~~0.403436~~	1	0.3491249	2	0.3074229	5	0.261277	10	0.2616872	50	0.2567152
Methyl Acetate	0.5	8.128817E-02	1	0.1090866	2	0.1105535	5	0.1264901	10	0.1246344	50	0.1267548
Methylcyclohexane	0.5	0.2149234	1	0.3142523	2	0.2792127	5	0.2839724	10	0.2800049	50	0.3134089
Naphthalene	0.5	1.44409	1	1.517363	2	1.713348	5	1.804928	10	1.991279	50	2.205326
Methyl Methacrylate	0.5	0.1478686	1	0.1754003	2	0.1541729	5	0.1607667	10	0.1747114	50	0.1921293
4-Methyl-2-pentanone	1	0.1373517	2	0.1487072	4	0.1491569	10	0.167896	20	0.1669866	100	0.1892885
Methyl t-Butyl Ether	0.5	0.5489324	1	0.5471086	2	0.6012424	5	0.5775179	10	0.585149	50	0.6267588

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1.879051	1	1.99191	2	2.180847	5	2.115287	10	2.311565	50	2.37068
Styrene	0.5	1.612207	1	1.868205	2	2.059948	5	2.147887	10	2.142549	50	2.43802
1,1,2,2-Tetrachloroethane	0.5	0.4031343	1	0.477129	2	0.4975544	5	0.5032902	10	0.5033644	50	0.4987123
1,1,1,2-Tetrachloroethane	0.5	0.7690163	1	0.9108303	2	0.8212219	5	0.9093929	10	0.9200469	50	0.9402923
tert-Butyl alcohol	2.5		5		10	1.104331E-02	25	0.0112792	50	1.227274E-02	250	1.320429E-02
Tetrachloroethene	0.5	0.8406458	1	0.9318027	2	0.8408387	5	0.8427754	10	0.8749993	50	0.9184061
Toluene	0.5	1.387865	1	1.508545	2	1.552225	5	1.583872	10	1.582992	50	1.648495
1,2,3-Trichlorobenzene	0.5	0.6057365	1	0.6430139	2	0.6495688	5	0.6687813	10	0.7044227	50	0.7614153
1,2,4-Trichlorobenzene	0.5	0.593834	1	0.6978786	2	0.657871	5	0.7440385	10	0.8046492	50	0.8308033
1,1,2-Trichloroethane	0.5	0.4265041	1	0.4069393	2	0.4560905	5	0.4464292	10	0.4369698	50	0.4728798
1,1,1-Trichloroethane	0.5	0.4436057	1	0.4864606	2	0.4953438	5	0.4801675	10	0.4907081	50	0.4994792
Tetrahydrofuran	0.5		1		2	1.308183E-02	5	1.959772E-02	10	1.883701E-02	50	2.367847E-02
Trichloroethene	0.5	0.2413341	1	0.2862425	2	0.2904085	5	0.2889846	10	0.2924621	50	0.2964053
Trichlorofluoromethane	0.5	0.4198834	1	0.4820716	2	0.4655284	5	0.4221682	10	0.4652433	50	0.4649976
1,2,3-Trichloropropane	0.5	0.1897998	1	0.3114594	2	0.3018395	5	0.30179	10	0.2971028	50	0.3206891
1,3,5-Trimethylbenzene	0.5	1.393634	1	1.585653	2	1.66804	5	1.732408	10	1.858598	50	1.87124
1,2,4-Trimethylbenzene	0.5	1.64514	1	1.629803	2	1.755567	5	1.867448	10	1.964536	50	2.008825
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1957875	1	0.2524073	2	0.2619174	5	0.2312344	10	0.2521292	50	0.2525723
Vinyl chloride	0.5	0.1690604	1	0.2285471	2	0.2195018	5	0.2063909	10	0.2260364	50	0.2270634
m,p-Xylene	1	1.814188	2	2.224644	4	2.331299	10	2.320225	20	2.409944	100	2.579805
o-Xylene	0.5	2.11834	1	2.2045	2	2.336157	5	2.52065	10	2.488508	50	2.708102
Vinyl acetate	0.996	~~0.2947018~~	1.992	0.3172369	3.984	0.3509816	9.96	0.3665926	19.92	0.399567	99.62	0.4436572
Xylenes (total)	1.5	1.915572	3	2.21793	6	2.332918	15	2.387033	30	2.436132	150	2.622571
Dibromofluoromethane	30	0.3035892	35	0.3088054	40	0.3100112	50	0.3109655	60	0.3060666	70	0.2975452
1,2-Dichloroethane-d4	30	6.849135E-02	35	7.104933E-02	40	7.451023E-02	50	7.333501E-02	60	7.339071E-02	70	7.495031E-02
Toluene-d8	30	2.336022	35	2.38849	40	2.398713	50	2.510098	60	2.401292	70	2.389547
tert-Amyl alcohol	2.5		5		10	6.532888E-03	25	7.96673E-03	50	7.779765E-03	250	8.939632E-03
tert-Amyl ethyl ether	0.5	0.4171949	1	0.4590094	2	0.4661304	5	0.4668896	10	0.4960181	50	0.5325136

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	5.253551E-02	300	5.600353E-02	400	5.168798E-02						
Acrolein	501.5	2.756648E-02	752.2	2.922781E-02	1003	2.765782E-02						
Acrylonitrile	499.7	6.901541E-02	749.6	7.205678E-02	999.4	6.910276E-02						
Benzene	100	0.9488527	150	1.007826	200	0.976496						
Bromobenzene	100	0.7523149	150	0.7755237	200	0.7917892						
Bromochloromethane	100	0.1871551	150	0.1910638	200	0.183167						
Tert-Amyl Methyl Ether	100	0.6748695	150	0.7235524	200	0.7013315						
Bromodichloromethane	100	0.4219007	150	0.4429173	200	0.4211149						
Bromoform	100	0.7266243	150	0.7513732	200	0.7546702						
Bromomethane	100	0.1684305	150	0.1826879	200	0.1752945						
Bromofluorobenzene	30	1.035817	30	1.031528	30	1.036249						
n-Butylbenzene	100	1.430885	150	1.482847	200	1.529719						
2-Butanone	200	8.330626E-02	300	8.912438E-02	400	8.631599E-02						
sec-Butylbenzene	100	2.075772	150	2.163535	200	2.239904						
tert-Butylbenzene	100	1.845276	150	1.920163	200	1.999558						
Carbon disulfide	100	0.5838526	150	0.6391866	200	0.6224065						
Carbon tetrachloride	100	0.4718163	150	0.4932535	200	0.4759959						
Chlorobenzene	100	2.119603	150	2.24928	200	2.243936						
Chloroethane	100	0.133497	150	0.1445518	200	0.1360128						
Chloroform	100	0.493063	150	0.5169543	200	0.4936804						
2-Chloroethyl vinyl ether	199.5	0.1485952	299.2	0.1587938	399	0.1565833						
Chloromethane	100	0.2159257	150	0.2300218	200	0.2214303						
1-Chlorohexane	100	0.8008536	150	0.8697595	200	0.8653864						
2-Chlorotoluene	100	1.534676	150	1.60552	200	1.593547						
4-Chlorotoluene	100	1.786224	150	1.868208	200	1.885106						
Cyclohexane	100	0.2883458	150	0.3139392	200	0.3094954						
Dibromochloromethane	100	0.9752896	150	1.020333	200	1.033218						
1,2-Dibromo-3-chloropropane	100	0.1755112	150	0.1872966	200	0.1902087						
1,2-Dibromoethane (EDB)	100	0.738232	150	0.775889	200	0.7784123						
Dibromomethane	100	0.184253	150	0.1936452	200	0.1824758						
1,2-Dichlorobenzene	100	1.39339	150	1.431263	200	1.415746						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	1.378674	150	1.45289	200	1.451359						
1,4-Dichlorobenzene	100	1.438226	150	1.490508	200	1.500651						
Dichlorodifluoromethane	100	0.267347	150	0.2855424	200	0.2710256						
1,1-Dichloroethane	100	0.4152921	150	0.4353035	200	0.4198495						
1,2-Dichloroethane	100	0.3881679	150	0.4060048	200	0.3796557						
1,1-Dichloroethene	100	0.219962	150	0.2407254	200	0.2361765						
cis-1,2-Dichloroethene	100	0.2894483	150	0.3103318	200	0.2951832						
trans-1,2-Dichloroethene	100	0.2607922	150	0.2835303	200	0.2761394						
1,2-Dichloroethene (total)	200	0.2751202	300	0.296931	400	0.2856613						
1,2-Dichloropropane	100	0.2247321	150	0.2408271	200	0.2326889						
1,3-Dichloropropane	100	0.9695663	150	0.9895869	200	1.014137						
2,2-Dichloropropane	100	0.3762425	150	0.3973504	200	0.3747053						
1,1-Dichloropropene	100	0.3436136	150	0.376008	200	0.3596924						
cis-1,3-Dichloropropene	100	0.4259116	150	0.4495694	200	0.4258076						
trans-1,3-Dichloropropene	100	1.055191	150	1.100522	200	1.09804						
Diisopropyl Ether	100	0.6942905	150	0.7310683	200	0.6971019						
Ethylbenzene	100	3.141936	150	3.316202	200	3.333023						
Ethyl tert-Butyl Ether	100	0.6995925	150	0.7514486	200	0.7181847						
Ethyl Methacrylate	100	0.7173215	150	0.7480546	200	0.7680767						
Hexachlorobutadiene	100	0.2740789	150	0.2915865	200	0.2992581						
2-Hexanone	200	0.3036676	300	0.3194549	400	0.319048						
Iodomethane	100	0.4255338	150	0.4554914	200	0.4369761						
Isopropylbenzene	100	3.021723	150	3.200467	200	3.217561						
p-Isopropyltoluene	100	2.007828	150	2.153997	200	2.146165						
Methylene chloride	100	0.2471329	150	0.2550323	200	0.2474226						
Methyl Acetate	100	0.1277585	150	0.1305362	200	0.1287014						
Methylcyclohexane	100	0.2744556	150	0.3055083	200	0.3063192						
Naphthalene	100	2.255856	150	2.42955	200	2.461145						
Methyl Methacrylate	100	0.1909725	150	0.2049087	200	0.1923744						
4-Methyl-2-pentanone	200	0.1877939	300	0.1966805	400	0.1889982						
Methyl t-Butyl Ether	100	0.6141833	150	0.6673397	200	0.6373129						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

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	2.317239	150	2.504254	200	2.543627						
Styrene	100	2.381162	150	2.482839	200	2.522128						
1,1,2,2-Tetrachloroethane	100	0.5024429	150	0.5387855	200	0.5413205						
1,1,1,2-Tetrachloroethane	100	0.9094989	150	0.9582386	200	0.9513637						
tert-Butyl alcohol	500	1.366716E-02	750	1.446934E-02	1000	1.474229E-02						
Tetrachloroethene	100	0.8727797	150	0.931938	200	0.9387236						
Toluene	100	1.588956	150	1.67961	200	1.70926						
1,2,3-Trichlorobenzene	100	0.7932206	150	0.8385999	200	0.846346						
1,2,4-Trichlorobenzene	100	0.8533364	150	0.9092336	200	0.9142508						
1,1,2-Trichloroethane	100	0.4618129	150	0.4745051	200	0.4849631						
1,1,1-Trichloroethane	100	0.4638609	150	0.4973436	200	0.4703412						
Tetrahydrofuran	100	2.350183E-02	150	2.570679E-02	200	0.0256481						
Trichloroethene	100	0.2867405	150	0.3094295	200	0.296094						
Trichlorofluoromethane	100	0.4276914	150	0.4499825	200	0.4380518						
1,2,3-Trichloropropane	100	0.3040515	150	0.3164269	200	0.3087402						
1,3,5-Trimethylbenzene	100	1.88059	150	1.965238	200	2.031861						
1,2,4-Trimethylbenzene	100	1.97451	150	2.075283	200	2.120183						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2272888	150	0.2437857	200	0.2406732						
Vinyl chloride	100	0.2112459	150	0.224359	200	0.2107088						
m,p-Xylene	200	2.512507	300	2.611275	400	2.626766						
o-Xylene	100	2.581849	150	2.717943	200	2.713176						
Vinyl acetate	199.2	0.4377953	298.9	0.4639062	398.5	0.4400004						
Xylenes (total)	300	2.535621	450	2.646831	600	2.655569						
Dibromofluoromethane	30	0.2873976	30	0.297783	30	0.2870823						
1,2-Dichloroethane-d4	30	7.127202E-02	30	6.918436E-02	30	6.858859E-02						
Toluene-d8	30	2.362588	30	2.37198	30	2.453073						
tert-Amyl alcohol	500	9.196477E-03	750	1.079645E-02	1000	1.076468E-02						
tert-Amyl ethyl ether	100	0.5223287	150	0.5618969	200	0.5457975						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.127911E-02	16.92363	3.489556	0.2769129		0.9983323	0.99	
Acrolein	3.059046E-02	9.042267	3.376333	7.786118E-02			15	
Acrylonitrile	6.569715E-02	7.095252	4.357333	0.1704013			15	
Benzene	0.9439093	6.370831	7.5	2.781251E-02			15	
Bromobenzene	0.7349524	5.636576	12.27633	1.968109E-02			15	
Bromochloromethane	0.1828541	7.498248	6.580333	5.424699E-02			15	
Tert-Amyl Methyl Ether	0.6162765	12.93296	7.694666	0.0240391			15	
Bromodichloromethane	0.4300389	4.102128	8.496333	2.508591E-02			15	
Bromoform	0.6947025	8.261521	11.67967	1.393066E-02			SPCC (0.1)	
Bromomethane	0.1767748	11.14876	2.549625	0.1425364			15	
Bromofluorobenzene	1.013563	2.299563	12.11633	2.469625E-02			15	
n-Butylbenzene	1.341081	11.53189	13.71633	1.319746E-02			15	
2-Butanone	7.898584E-02	10.20907	6.031	0.1725912			15	
sec-Butylbenzene	1.938318	13.35342	13.16967	1.150339E-02			15	
tert-Butylbenzene	1.716248	12.97525	12.938	2.081815E-02			15	
Carbon disulfide	0.6093037	4.150462	4.533667	7.199769E-02			15	
Carbon tetrachloride	0.484154	4.30031	7.468333	2.016041E-02			15	
Chlorobenzene	2.105777	6.341832	10.949	1.081874E-02			SPCC (0.3)	
Chloroethane	0.1372338	4.005678	2.682333	9.791205E-02			15	
Chloroform	0.5183192	4.836199	6.555	4.631319E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1370578	13.8323	8.861334	1.149182E-02			15	
Chloromethane	0.2232586	5.632496	1.957	1.354336E-02			SPCC (0.1)	
1-Chlorohexane	0.8363237	6.728935	10.91744	1.891962E-02			15	
2-Chlorotoluene	1.478503	7.480181	12.5	0			15	
4-Chlorotoluene	1.728237	7.872081	12.561	7.068191E-03			15	
Cyclohexane	0.2895896	6.561665	7.401333	2.945346E-02			15	
Dibromochloromethane	0.96157	6.556881	10.178	3.269395E-02			15	
1,2-Dibromo-3-chloropropane	0.165218	11.82885	14.32125	1.750125E-02			15	
1,2-Dibromoethane (EDB)	0.7261361	4.973904	10.395	1.877545E-02			15	
Dibromomethane	0.187154	6.960802	8.433333	0.0332705			15	
1,2-Dichlorobenzene	1.306003	7.460591	13.674	8.933889E-03			15	
1,3-Dichlorobenzene	1.348763	6.977902	13.26078	8.708723E-03			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2213002	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/30/12 9:48 7/30/12 13:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.414025	5.293393	13.352	7.502474E-03			15	
Dichlorodifluoromethane	0.2646311	10.62008	1.750222	2.540826E-02			15	
1,1-Dichloroethane	0.4219782	5.521849	5.567667	5.428684E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3881483	5.21031	7.329	4.188113E-03			15	
1,1-Dichloroethene	0.2299039	5.551603	3.971667	9.159627E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2923164	5.638785	6.294333	3.025872E-02			15	
trans-1,2-Dichloroethene	0.2706481	3.555312	5.181111	4.764946E-02			15	
1,2-Dichloroethene (total)	0.2814822	4.437246	6.294333	3.025872E-02			15	
1,2-Dichloropropane	0.2208834	7.812962	8.319667	3.633876E-02			CCC (20)	
1,3-Dichloropropane	0.9533089	5.639417	9.920222	2.212023E-02			15	
2,2-Dichloropropane	0.380659	4.60598	6.404111	2.180096E-02			15	
1,1-Dichloropropene	0.3461839	7.954365	7.347778	0.0317453			15	
cis-1,3-Dichloropropene	0.4014071	10.04126	9.075	5.230454E-03			15	
trans-1,3-Dichloropropene	0.9928947	10.02535	9.550556	2.770872E-02			15	
Diisopropyl Ether	0.656586	8.940648	5.949333	4.557293E-02			15	
Ethylbenzene	2.993416	9.387991	11.101	1.748548E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6614789	10.04625	6.425	6.832556E-02			15	
Ethyl Methacrylate	0.6451489	14.54432	9.743334	1.069978E-02			15	
Hexachlorobutadiene	0.2768995	5.50911	15.688	1.776325E-02			15	
2-Hexanone	0.2794217	13.03604	9.856	0.0333086			15	
Iodomethane	0.3462486	31.03425	4.1735	7.085955E-02	0.9990374		0.995	
Isopropylbenzene	2.843894	11.40757	12.001	0.0227546			15	
p-Isopropyltoluene	1.937734	9.773661	13.309	1.723665E-02			15	
Methylene chloride	0.2732269	13.23693	4.4805	6.443989E-02			15	
Methyl Acetate	0.1184226	13.48682	4.342667	0.1609046			15	
Methylcyclohexane	0.2857842	10.79483	8.649	0.0189802			15	
Naphthalene	1.980321	19.25825	15.56	1.343556E-02		0.9997546	0.99	
Methyl Methacrylate	0.1770339	11.08417	8.454	2.482942E-02			15	
4-Methyl-2-pentanone	0.1703177	12.6742	9.002667	0.0546286			15	
Methyl t-Butyl Ether	0.6006161	6.704845	5.172778	6.088712E-02			15	
n-Propylbenzene	2.246051	9.964759	12.415	0.022024			15	
Styrene	2.183883	14.04007	11.57456	2.092247E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2213002	Instrument:	MS-VOA3		
Matrix:	Water	Calibration Dates:	7/30/12 9:48	7/30/12 13:37	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.4961926	8.131299	11.92733	3.235038E-04			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.898878	7.003265	10.99178	2.130655E-02			15	
tert-Butyl alcohol	1.295405E-02	11.35649	4.120429	0.1656188			15	
Tetrachloroethene	0.888101	4.753778	10.29267	2.470326E-02			15	
Toluene	1.582424	6.084639	9.554555	3.006621E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.7234561	12.34467	15.84733	8.158592E-03			15	
1,2,4-Trichlorobenzene	0.7784328	14.42566	15.40733	1.305204E-02			15	
1,1,2-Trichloroethane	0.4518993	5.575963	9.708	1.627961E-02			15	
1,1,1-Trichloroethane	0.4808123	3.852205	7.122667	3.367217E-02			15	
Tetrahydrofuran	2.143596E-02	21.31035	6.771714	0.1294004	0.9985781		0.995	
Trichloroethene	0.2875668	6.508933	8.270667	2.727798E-02			15	
Trichlorofluoromethane	0.448402	5.002987	3.184	0.1325704			15	
1,2,3-Trichloropropane	0.2946555	13.58789	12.05467	2.887739E-02			15	
1,3,5-Trimethylbenzene	1.776362	11.33083	12.59111	0.0191309			15	
1,2,4-Trimethylbenzene	1.893477	9.525768	12.96878	1.605514E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2397551	8.27233	4.056	7.263164E-02			15	
Vinyl chloride	0.2136571	8.692742	2.111111	0.1383994			CCC (20)	
m,p-Xylene	2.381184	10.73742	11.21011	2.506495E-03			15	
o-Xylene	2.487692	9.010655	11.60533	1.667237E-02			15	
Vinyl acetate	0.4024672	13.05969	5.64475	3.612669E-02			15	
Xylenes (total)	2.416686	9.981037	11.60533	1.667237E-02			15	
Dibromofluoromethane	0.3010273	3.051016	6.729	4.596158E-02			15	
1,2-Dichloroethane-d4	7.164132E-02	3.519973	7.236667	3.348431E-02			15	
Toluene-d8	2.401311	2.156175	9.476778	1.932701E-02			15	
tert-Amyl alcohol	8.853803E-03	17.78507	6.931429	4.807711E-02	0.9950466		0.995	
tert-Amyl ethyl ether	0.4964199	9.599005	8.588889	2.096708E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	169.4	8.548666E-02	7.240282E-02		-15.3	20
Benzene	A	100.0	99.10	0.9315107	0.9230922		-0.9	20
Bromobenzene	A	100.0	101.4	0.7087812	0.719042		1.4	20
Bromochloromethane	A	100.0	99.63	0.1195172	0.11908		-0.4	20
Bromodichloromethane	A	100.0	100.4	0.2918713	0.2931071		0.4	20
Bromoform	Q	100.0	98.14	0.2807903	0.3418473	0.1	-1.9	20
Bromomethane	A	100.0	110.9	0.1508425	0.1673223		10.9	20
n-Butylbenzene	A	100.0	99.93	1.996493	1.995098		-0.07	20
2-Butanone	A	200.0	179.3	0.1504013	0.1348674		-10.3	20
sec-Butylbenzene	A	100.0	100.9	2.683693	2.707207		0.9	20
tert-Butylbenzene	A	100.0	102.1	1.962219	2.003112		2.1	20
Carbon disulfide	A	100.0	85.87	0.549092	0.4714957		-14.1	20
Carbon tetrachloride	A	100.0	109.1	0.2201406	0.2402076		9.1	20
Chlorobenzene	A	100.0	97.51	1.46879	1.432212	0.3	-2.5	20
Chloroethane	A	100.0	107.4	0.1477522	0.1586388		7.4	20
Chloroform	A	100.0	94.73	0.4138944	0.3920877		-5.3	20
Chloromethane	A	100.0	89.50	0.2843574	0.254513	0.1	-10.5	20
2-Chlorotoluene	A	100.0	98.14	2.089316	2.050395		-1.9	20
4-Chlorotoluene	A	100.0	97.30	2.383943	2.319647		-2.7	20
Dibromochloromethane	Q	100.0	98.22	0.4682909	0.5398128		-1.8	20
1,2-Dibromo-3-chloropropane	Q	100.0	96.22	0.1119305	0.1328909		-3.8	20
1,2-Dibromoethane (EDB)	A	100.0	102.4	0.5515188	0.56473		2.4	20
Dibromomethane	A	100.0	97.65	0.159759	0.156001		-2.4	20
1,2-Dichlorobenzene	A	100.0	99.01	1.203659	1.191714		-1.0	20
1,3-Dichlorobenzene	A	100.0	97.90	1.256964	1.23052		-2.1	20
1,4-Dichlorobenzene	A	100.0	98.32	1.26803	1.246685		-1.7	20
Dichlorodifluoromethane	A	100.0	107.4	0.1924809	0.2066581		7.4	20
1,1-Dichloroethane	A	100.0	97.76	0.4594785	0.4491996	0.1	-2.2	20
1,2-Dichloroethane	A	100.0	96.37	0.3510167	0.338278		-3.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	96.12	0.1816551	0.1745999		-3.9	20
cis-1,2-Dichloroethene	A	100.0	98.62	0.2461851	0.2427885		-1.4	20
trans-1,2-Dichloroethene	A	100.0	99.18	0.2335685	0.2316633		-0.8	20
1,2-Dichloropropane	A	100.0	99.78	0.259293	0.2587233		-0.2	20
1,3-Dichloropropane	A	100.0	100.8	0.8986729	0.9061445		0.8	20
2,2-Dichloropropane	A	100.0	95.61	0.2935838	0.2806837		-4.4	20
1,1-Dichloropropene	A	100.0	97.55	0.319009	0.311192		-2.5	20
cis-1,3-Dichloropropene	A	100.0	107.0	0.3521134	0.3767175		7.0	20
trans-1,3-Dichloropropene	A	100.0	96.29	0.8239793	0.7933875		-3.7	20
Ethylbenzene	A	100.0	100.4	2.511121	2.520183		0.4	20
Hexachlorobutadiene	A	100.0	99.17	0.2973976	0.2949307		-0.8	20
2-Hexanone	A	200.0	194.0	0.4846361	0.4700208		-3.0	20
Isopropylbenzene	A	100.0	93.88	2.072041	1.94514		-6.1	20
p-Isopropyltoluene	A	100.0	95.71	2.123426	2.032234		-4.3	20
Methylene chloride	A	100.0	88.72	0.2190071	0.1943103		-11.3	20
Naphthalene	A	100.0	97.13	1.40191	1.361695		-2.9	20
4-Methyl-2-pentanone	A	200.0	193.1	0.2742899	0.2648278		-3.4	20
Methyl t-Butyl Ether	A	100.0	99.11	0.6034362	0.5980958		-0.9	20
n-Propylbenzene	A	100.0	99.53	3.366424	3.350497		-0.5	20
Styrene	A	100.0	101.6	1.582432	1.60805		1.6	20
1,1,2,2-Tetrachloroethane	A	100.0	99.98	0.8277083	0.8275818	0.3	-0.02	20
1,1,1,2-Tetrachloroethane	A	100.0	112.6	0.4212623	0.4744246		12.6	20
Tetrachloroethene	A	100.0	98.83	0.5209978	0.5148846		-1.2	20
Toluene	A	100.0	99.26	1.306882	1.297251		-0.7	20
1,2,3-Trichlorobenzene	A	100.0	100.5	0.6431937	0.6466824		0.5	20
1,2,4-Trichlorobenzene	A	100.0	99.90	0.7381814	0.7374543		-0.1	20
1,1,2-Trichloroethane	A	100.0	101.2	0.4426374	0.4479132		1.2	20
1,1,1-Trichloroethane	A	100.0	103.7	0.2930192	0.3038476		3.7	20
Trichloroethene	A	100.0	97.09	0.2340808	0.2272732		-2.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	96.47	0.3110129	0.3000265		-3.5	20
1,2,3-Trichloropropane	A	100.0	98.20	0.1727305	0.1696184		-1.8	20
1,3,5-Trimethylbenzene	A	100.0	104.0	2.198041	2.284755		3.9	20
1,2,4-Trimethylbenzene	A	100.0	102.2	2.208168	2.255949		2.2	20
Vinyl chloride	A	100.0	101.4	0.1848242	0.1873255		1.4	20
Xylenes (total)	A	300.0	295.8	1.916445	1.889213		-1.4	20
Bromofluorobenzene	A	30.00	31.58	0.8581783	0.9032791		5.3	20
Dibromofluoromethane	A	30.00	30.78	0.2631144	0.269967		2.6	20
1,2-Dichloroethane-d4	A	30.00	31.00	6.156409E-02	6.362317E-02		3.3	20
Toluene-d8	A	30.00	31.76	2.250463	2.382583		5.9	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQICV2.D	Calibration Date:	07/30/12 09:48
Sequence:	2G21301	Injection Date:	07/30/12
Lab Sample ID:	2G21301-ICV2	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	Q	200.0	183.7	6.127911E-02	5.039898E-02		-8.2	20
Benzene	A	100.0	98.12	0.9439093	0.9261312		-1.9	20
Bromobenzene	A	100.0	99.75	0.7349524	0.7331288		-0.2	20
Bromochloromethane	A	100.0	95.84	0.1828541	0.1752508		-4.2	20
Bromodichloromethane	A	100.0	88.61	0.4300389	0.3810484		-11.4	20
Bromoform	A	100.0	100.1	0.6947025	0.6956394	0.1	0.1	20
Bromomethane	A	100.0	91.96	0.1767748	0.162559		-8.0	20
n-Butylbenzene	A	100.0	102.8	1.341081	1.378312		2.8	20
2-Butanone	A	200.0	207.8	7.898584E-02	8.208541E-02		3.9	20
sec-Butylbenzene	A	100.0	102.3	1.938318	1.983453		2.3	20
tert-Butylbenzene	A	100.0	102.2	1.716248	1.754041		2.2	20
Carbon disulfide	A	100.0	85.74	0.6093037	0.5224242		-14.3	20
Carbon tetrachloride	A	100.0	91.42	0.484154	0.4426293		-8.6	20
Chlorobenzene	A	100.0	96.64	2.105777	2.034926	0.3	-3.4	20
Chloroethane	A	100.0	98.85	0.1372338	0.135659		-1.1	20
Chloroform	A	100.0	88.60	0.5183192	0.4592401		-11.4	20
Chloromethane	A	100.0	84.03	0.2232586	0.1876022	0.1	-16.0	20
2-Chlorotoluene	A	100.0	98.52	1.478503	1.456692		-1.5	20
4-Chlorotoluene	A	100.0	96.97	1.728237	1.675835		-3.0	20
Dibromochloromethane	A	100.0	96.45	0.96157	0.9274602		-3.5	20
1,2-Dibromo-3-chloropropane	A	100.0	99.47	0.165218	0.1643396		-0.5	20
1,2-Dibromoethane (EDB)	A	100.0	98.03	0.7261361	0.7118423		-2.0	20
Dibromomethane	A	100.0	89.54	0.187154	0.1675726		-10.5	20
1,2-Dichlorobenzene	A	100.0	98.65	1.306003	1.288358		-1.4	20
1,3-Dichlorobenzene	A	100.0	96.97	1.348763	1.307847		-3.0	20
1,4-Dichlorobenzene	A	100.0	97.31	1.414025	1.376001		-2.7	20
Dichlorodifluoromethane	A	100.0	90.15	0.2646311	0.2385575		-9.9	20
1,1-Dichloroethane	A	100.0	91.90	0.4219782	0.3877804	0.1	-8.1	20
1,2-Dichloroethane	A	100.0	91.49	0.3881483	0.3551092		-8.5	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQICV2.D	Calibration Date:	07/30/12 09:48
Sequence:	2G21301	Injection Date:	07/30/12
Lab Sample ID:	2G21301-ICV2	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	90.10	0.2299039	0.2071465		-9.9	20
cis-1,2-Dichloroethene	A	100.0	96.15	0.2923164	0.2810583		-3.9	20
trans-1,2-Dichloroethene	A	100.0	95.30	0.2706481	0.2579408		-4.7	20
1,2-Dichloropropane	A	100.0	100.7	0.2208834	0.2225275		0.7	20
1,3-Dichloropropane	A	100.0	101.6	0.9533089	0.9689208		1.6	20
2,2-Dichloropropane	A	100.0	87.96	0.380659	0.3348087		-12.0	20
1,1-Dichloropropene	A	100.0	96.64	0.3461839	0.3345491		-3.4	20
cis-1,3-Dichloropropene	A	100.0	101.6	0.4014071	0.4077756		1.6	20
trans-1,3-Dichloropropene	A	100.0	92.23	0.9928947	0.9157918		-7.8	20
Ethylbenzene	A	100.0	103.2	2.993416	3.090646		3.2	20
Hexachlorobutadiene	A	100.0	93.41	0.2768995	0.2586445		-6.6	20
2-Hexanone	A	200.0	215.6	0.2794217	0.3012799		7.8	20
Isopropylbenzene	A	100.0	98.25	2.843894	2.794159		-1.7	20
p-Isopropyltoluene	A	100.0	94.76	1.937734	1.836263		-5.2	20
Methylene chloride	A	100.0	85.85	0.2732269	0.2345743		-14.1	20
Naphthalene	Q	100.0	92.84	1.980321	2.1244		-7.2	20
4-Methyl-2-pentanone	A	200.0	210.9	0.1703177	0.1796329		5.5	20
Methyl t-Butyl Ether	A	100.0	97.87	0.6006161	0.5877969		-2.1	20
n-Propylbenzene	A	100.0	98.78	2.246051	2.218608		-1.2	20
Styrene	A	100.0	104.4	2.183883	2.278802		4.3	20
1,1,2,2-Tetrachloroethane	A	100.0	98.11	0.4961926	0.4868005	0.3	-1.9	20
1,1,1,2-Tetrachloroethane	A	100.0	97.08	0.898878	0.8726047		-2.9	20
Tetrachloroethene	A	100.0	98.09	0.888101	0.8711469		-1.9	20
Toluene	A	100.0	100.3	1.582424	1.587772		0.3	20
1,2,3-Trichlorobenzene	A	100.0	104.0	0.7234561	0.7525423		4.0	20
1,2,4-Trichlorobenzene	A	100.0	104.5	0.7784328	0.8132379		4.5	20
1,1,2-Trichloroethane	A	100.0	101.9	0.4518993	0.4606312		1.9	20
1,1,1-Trichloroethane	A	100.0	94.05	0.4808123	0.4521803		-6.0	20
Trichloroethene	A	100.0	97.40	0.2875668	0.2800962		-2.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQICV2.D	Calibration Date:	07/30/12 09:48
Sequence:	2G21301	Injection Date:	07/30/12
Lab Sample ID:	2G21301-ICV2	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	92.42	0.448402	0.4144215		-7.6	20
1,2,3-Trichloropropane	A	100.0	98.17	0.2946555	0.2892708		-1.8	20
1,3,5-Trimethylbenzene	A	100.0	106.0	1.776362	1.882185		6.0	20
1,2,4-Trimethylbenzene	A	100.0	100.3	1.893477	1.899645		0.3	20
Vinyl chloride	A	100.0	103.4	0.2136571	0.2210024		3.4	20
Xylenes (total)	A	300.0	307.1	2.416686	2.474198		2.4	20
Bromofluorobenzene	A	30.00	30.06	1.013563	1.015605		0.2	20
Dibromofluoromethane	A	30.00	28.49	0.3010273	0.2858489		-5.0	20
1,2-Dichloroethane-d4	A	30.00	28.50	7.164132E-02	6.806127E-02		-5.0	20
Toluene-d8	A	30.00	30.27	2.401311	2.422749		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

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0801CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2H21505	Injection Date:	08/01/12
Lab Sample ID:	2H21505-CCV1	Injection Time:	08:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	155.6	8.548666E-02	6.652198E-02		-22.2	20 *
Benzene	A	100.0	91.72	0.9315107	0.8543878		-8.3	20
Bromobenzene	A	100.0	92.39	0.7087812	0.654829		-7.6	20
Bromochloromethane	A	100.0	98.60	0.1195172	0.1178496		-1.4	20
Bromodichloromethane	A	100.0	99.40	0.2918713	0.2901199		-0.6	20
Bromoform	Q	100.0	97.41	0.2807903	0.3389848	0.1	-2.6	20
Bromomethane	A	100.0	84.41	0.1508425	0.1273313		-15.6	20
n-Butylbenzene	A	100.0	84.22	1.996493	1.681538		-15.8	20
2-Butanone	A	200.0	209.0	0.1504013	0.1571379		4.5	20
sec-Butylbenzene	A	100.0	87.18	2.683693	2.339734		-12.8	20
tert-Butylbenzene	A	100.0	93.01	1.962219	1.825152		-7.0	20
Carbon disulfide	A	100.0	91.53	0.549092	0.5025797		-8.5	20
Carbon tetrachloride	A	100.0	107.9	0.2201406	0.2375555		7.9	20
Chlorobenzene	A	100.0	94.07	1.46879	1.381685	0.3	-5.9	20
Chloroethane	A	100.0	82.37	0.1477522	0.1217044		-17.6	20
Chloroform	A	100.0	90.65	0.4138944	0.3751916		-9.4	20
Chloromethane	A	100.0	74.02	0.2843574	0.2104704	0.1	-26.0	20 *
2-Chlorotoluene	A	100.0	88.47	2.089316	1.848336		-11.5	20
4-Chlorotoluene	A	100.0	89.22	2.383943	2.127029		-10.8	20
Dibromochloromethane	Q	100.0	97.68	0.4682909	0.5365513		-2.3	20
1,2-Dibromo-3-chloropropane	Q	100.0	91.13	0.1119305	0.1253233		-8.9	20
1,2-Dibromoethane (EDB)	A	100.0	94.47	0.5515188	0.5210256		-5.5	20
Dibromomethane	A	100.0	91.55	0.159759	0.1462581		-8.5	20
1,2-Dichlorobenzene	A	100.0	92.87	1.203659	1.117814		-7.1	20
1,3-Dichlorobenzene	A	100.0	92.94	1.256964	1.168203		-7.1	20
1,4-Dichlorobenzene	A	100.0	92.79	1.26803	1.17658		-7.2	20
Dichlorodifluoromethane	A	100.0	94.90	0.1924809	0.1826692		-5.1	20
1,1-Dichloroethane	A	100.0	92.58	0.4594785	0.4254076	0.1	-7.4	20
1,2-Dichloroethane	A	100.0	90.79	0.3510167	0.3186991		-9.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0801CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2H21505	Injection Date:	08/01/12
Lab Sample ID:	2H21505-CCV1	Injection Time:	08:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	86.91	0.1816551	0.1578723		-13.1	20
cis-1,2-Dichloroethene	A	100.0	92.70	0.2461851	0.2282062		-7.3	20
trans-1,2-Dichloroethene	A	100.0	91.34	0.2335685	0.2133494		-8.7	20
1,2-Dichloropropane	A	100.0	94.98	0.259293	0.246285		-5.0	20
1,3-Dichloropropane	A	100.0	92.60	0.8986729	0.8322104		-7.4	20
2,2-Dichloropropane	A	100.0	103.6	0.2935838	0.3041343		3.6	20
1,1-Dichloropropene	A	100.0	92.82	0.319009	0.2961162		-7.2	20
cis-1,3-Dichloropropene	A	100.0	99.83	0.3521134	0.3515269		-0.2	20
trans-1,3-Dichloropropene	A	100.0	99.94	0.8239793	0.8234939		-0.06	20
Ethylbenzene	A	100.0	91.56	2.511121	2.299087		-8.4	20
Hexachlorobutadiene	A	100.0	70.43	0.2973976	0.2094493		-29.6	20 *
2-Hexanone	A	200.0	221.6	0.4846361	0.5369516		10.8	20
Isopropylbenzene	A	100.0	93.73	2.072041	1.942092		-6.3	20
p-Isopropyltoluene	A	100.0	91.14	2.123426	1.935331		-8.9	20
Methylene chloride	A	100.0	78.25	0.2190071	0.1713651		-21.8	20 *
Naphthalene	A	100.0	82.30	1.40191	1.153752		-17.7	20
4-Methyl-2-pentanone	A	200.0	229.4	0.2742899	0.3146561		14.7	20
Methyl t-Butyl Ether	A	100.0	95.09	0.6034362	0.5738117		-4.9	20
n-Propylbenzene	A	100.0	88.79	3.366424	2.989068		-11.2	20
Styrene	A	100.0	95.85	1.582432	1.51677		-4.1	20
1,1,2,2-Tetrachloroethane	A	100.0	88.63	0.8277083	0.7335614	0.3	-11.4	20
1,1,1,2-Tetrachloroethane	A	100.0	107.9	0.4212623	0.4545299		7.9	20
Tetrachloroethene	A	100.0	94.90	0.5209978	0.4944034		-5.1	20
Toluene	A	100.0	90.33	1.306882	1.180541		-9.7	20
1,2,3-Trichlorobenzene	A	100.0	73.74	0.6431937	0.474288		-26.3	20 *
1,2,4-Trichlorobenzene	A	100.0	77.65	0.7381814	0.5731974		-22.4	20 *
1,1,2-Trichloroethane	A	100.0	90.84	0.4426374	0.402086		-9.2	20
1,1,1-Trichloroethane	A	100.0	98.98	0.2930192	0.2900441		-1.0	20
Trichloroethene	A	100.0	94.81	0.2340808	0.2219362		-5.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0801CCV1.D	Calibration Date:	04/27/12 09:57
Sequence:	2H21505	Injection Date:	08/01/12
Lab Sample ID:	2H21505-CCV1	Injection Time:	08:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	83.29	0.3110129	0.2590457		-16.7	20
1,2,3-Trichloropropane	A	100.0	93.99	0.1727305	0.1623452		-6.0	20
1,3,5-Trimethylbenzene	A	100.0	90.52	2.198041	1.989762		-9.5	20
1,2,4-Trimethylbenzene	A	100.0	91.25	2.208168	2.015062		-8.7	20
Vinyl chloride	A	100.0	89.92	0.1848242	0.1661989		-10.1	20
Xylenes (total)	A	300.0	270.8	1.916445	1.729981		-9.7	20
Bromofluorobenzene	A	30.00	31.45	0.8581783	0.89959		4.8	20
Dibromofluoromethane	A	30.00	31.81	0.2631144	0.278967		6.0	20
1,2-Dichloroethane-d4	A	30.00	31.07	6.156409E-02	6.375249E-02		3.6	20
Toluene-d8	A	30.00	31.95	2.250463	2.396947		6.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0807CCV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2H22201	Injection Date:	08/07/12
Lab Sample ID:	2H22201-CCV1	Injection Time:	08:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	160.9	8.548666E-02	6.877971E-02		-19.5	20
Benzene	A	100.0	93.32	0.9315107	0.8693256		-6.7	20
Bromobenzene	A	100.0	96.01	0.7087812	0.6804972		-4.0	20
Bromochloromethane	A	100.0	99.95	0.1195172	0.1194516		-0.05	20
Bromodichloromethane	A	100.0	103.0	0.2918713	0.30054		3.0	20
Bromoform	Q	100.0	104.0	0.2807903	0.3650041	0.1	4.0	20
Bromomethane	A	100.0	72.40	0.1508425	0.1092032		-27.6	20 *
n-Butylbenzene	A	100.0	90.46	1.996493	1.805966		-9.5	20
2-Butanone	A	200.0	209.3	0.1504013	0.157402		4.7	20
sec-Butylbenzene	A	100.0	91.20	2.683693	2.447428		-8.8	20
tert-Butylbenzene	A	100.0	96.89	1.962219	1.901157		-3.1	20
Carbon disulfide	A	100.0	89.29	0.549092	0.4902875		-10.7	20
Carbon tetrachloride	A	100.0	114.5	0.2201406	0.2521467		14.5	20
Chlorobenzene	A	100.0	98.04	1.46879	1.439994	0.3	-2.0	20
Chloroethane	A	100.0	81.62	0.1477522	0.1205962		-18.4	20
Chloroform	A	100.0	91.12	0.4138944	0.3771378		-8.9	20
Chloromethane	A	100.0	68.74	0.2843574	0.1954685	0.1	-31.3	20 *
2-Chlorotoluene	A	100.0	91.56	2.089316	1.912969		-8.4	20
4-Chlorotoluene	A	100.0	91.69	2.383943	2.185738		-8.3	20
Dibromochloromethane	Q	100.0	102.8	0.4682909	0.5674265		2.8	20
1,2-Dibromo-3-chloropropane	Q	100.0	94.57	0.1119305	0.1304245		-5.4	20
1,2-Dibromoethane (EDB)	A	100.0	96.08	0.5515188	0.5299155		-3.9	20
Dibromomethane	A	100.0	91.69	0.159759	0.1464858		-8.3	20
1,2-Dichlorobenzene	A	100.0	94.89	1.203659	1.142116		-5.1	20
1,3-Dichlorobenzene	A	100.0	95.67	1.256964	1.202541		-4.3	20
1,4-Dichlorobenzene	A	100.0	94.46	1.26803	1.197831		-5.5	20
Dichlorodifluoromethane	A	100.0	77.34	0.1924809	0.1488717		-22.7	20 *
1,1-Dichloroethane	A	100.0	95.84	0.4594785	0.4403763	0.1	-4.2	20
1,2-Dichloroethane	A	100.0	91.85	0.3510167	0.3224024		-8.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0807CCV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2H22201	Injection Date:	08/07/12
Lab Sample ID:	2H22201-CCV1	Injection Time:	08:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	88.36	0.1816551	0.1605089		-11.6	20
cis-1,2-Dichloroethene	A	100.0	93.72	0.2461851	0.2307319		-6.3	20
trans-1,2-Dichloroethene	A	100.0	94.28	0.2335685	0.2202026		-5.7	20
1,2-Dichloropropane	A	100.0	96.46	0.259293	0.2501231		-3.5	20
1,3-Dichloropropane	A	100.0	94.38	0.8986729	0.8481795		-5.6	20
2,2-Dichloropropane	A	100.0	108.3	0.2935838	0.3179624		8.3	20
1,1-Dichloropropene	A	100.0	95.01	0.319009	0.3030978		-5.0	20
cis-1,3-Dichloropropene	A	100.0	102.9	0.3521134	0.3623195		2.9	20
trans-1,3-Dichloropropene	A	100.0	104.6	0.8239793	0.8622513		4.6	20
Ethylbenzene	A	100.0	94.82	2.511121	2.381056		-5.2	20
Hexachlorobutadiene	A	100.0	81.24	0.2973976	0.2416145		-18.8	20
2-Hexanone	A	200.0	225.8	0.4846361	0.547111		12.9	20
Isopropylbenzene	A	100.0	97.65	2.072041	2.023348		-2.4	20
p-Isopropyltoluene	A	100.0	96.29	2.123426	2.044739		-3.7	20
Methylene chloride	A	100.0	78.74	0.2190071	0.1724536		-21.3	20 *
Naphthalene	A	100.0	107.1	1.40191	1.500935		7.1	20
4-Methyl-2-pentanone	A	200.0	227.4	0.2742899	0.311907		13.7	20
Methyl t-Butyl Ether	A	100.0	98.41	0.6034362	0.5938532		-1.6	20
n-Propylbenzene	A	100.0	93.64	3.366424	3.152184		-6.4	20
Styrene	A	100.0	98.48	1.582432	1.558302		-1.5	20
1,1,2,2-Tetrachloroethane	A	100.0	89.69	0.8277083	0.7423781	0.3	-10.3	20
1,1,1,2-Tetrachloroethane	A	100.0	113.3	0.4212623	0.4772543		13.3	20
Tetrachloroethene	A	100.0	98.54	0.5209978	0.5133931		-1.5	20
Toluene	A	100.0	94.40	1.306882	1.233746		-5.6	20
1,2,3-Trichlorobenzene	A	100.0	84.92	0.6431937	0.5461941		-15.1	20
1,2,4-Trichlorobenzene	A	100.0	87.68	0.7381814	0.6472593		-12.3	20
1,1,2-Trichloroethane	A	100.0	93.74	0.4426374	0.4149079		-6.3	20
1,1,1-Trichloroethane	A	100.0	102.0	0.2930192	0.2990326		2.1	20
Trichloroethene	A	100.0	97.95	0.2340808	0.2292763		-2.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0807CCV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2H22201	Injection Date:	08/07/12
Lab Sample ID:	2H22201-CCV1	Injection Time:	08:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	83.95	0.3110129	0.261094		-16.1	20
1,2,3-Trichloropropane	A	100.0	97.87	0.1727305	0.1690565		-2.1	20
1,3,5-Trimethylbenzene	A	100.0	94.34	2.198041	2.073699		-5.7	20
1,2,4-Trimethylbenzene	A	100.0	96.32	2.208168	2.127006		-3.7	20
Vinyl chloride	A	100.0	83.12	0.1848242	0.1536211		-16.9	20
Xylenes (total)	A	300.0	278.9	1.916445	1.781717		-7.0	20
Bromofluorobenzene	A	30.00	31.62	0.8581783	0.9044137		5.4	20
Dibromofluoromethane	A	30.00	31.23	0.2631144	0.273871		4.1	20
1,2-Dichloroethane-d4	A	30.00	30.88	6.156409E-02	6.337596E-02		2.9	20
Toluene-d8	A	30.00	32.08	2.250463	2.406575		6.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQCCV1.D	Calibration Date:	07/30/12 09:48
Sequence:	2H22302	Injection Date:	08/09/12
Lab Sample ID:	2H22302-CCV1	Injection Time:	11:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	Q	200.0	222.1	6.127911E-02	6.046084E-02		11.0	20
Benzene	A	100.0	106.8	0.9439093	1.008082		6.8	20
Bromobenzene	A	100.0	107.1	0.7349524	0.7873377		7.1	20
Bromochloromethane	A	100.0	102.4	0.1828541	0.187327		2.4	20
Bromodichloromethane	A	100.0	106.1	0.4300389	0.4561593		6.1	20
Bromoform	A	100.0	103.6	0.6947025	0.7200145	0.1	3.6	20
Bromomethane	A	100.0	93.73	0.1767748	0.165684		-6.3	20
n-Butylbenzene	A	100.0	111.2	1.341081	1.490999		11.2	20
2-Butanone	A	200.0	247.9	7.898584E-02	9.790324E-02		24.0	20 *
sec-Butylbenzene	A	100.0	113.6	1.938318	2.201009		13.6	20
tert-Butylbenzene	A	100.0	111.4	1.716248	1.911836		11.4	20
Carbon disulfide	A	100.0	106.2	0.6093037	0.6472197		6.2	20
Carbon tetrachloride	A	100.0	100.9	0.484154	0.4886948		0.9	20
Chlorobenzene	A	100.0	103.0	2.105777	2.169603	0.3	3.0	20
Chloroethane	A	100.0	99.95	0.1372338	0.137162		-0.05	20
Chloroform	A	100.0	100.3	0.5183192	0.5198354		0.3	20
Chloromethane	A	100.0	96.94	0.2232586	0.2164245	0.1	-3.1	20
2-Chlorotoluene	A	100.0	110.0	1.478503	1.62628		10.0	20
4-Chlorotoluene	A	100.0	108.6	1.728237	1.876982		8.6	20
Dibromochloromethane	A	100.0	99.76	0.96157	0.9592924		-0.2	20
1,2-Dibromo-3-chloropropane	A	100.0	110.1	0.165218	0.1818558		10.1	20
1,2-Dibromoethane (EDB)	A	100.0	101.0	0.7261361	0.733712		1.0	20
Dibromomethane	A	100.0	103.3	0.187154	0.1932788		3.3	20
1,2-Dichlorobenzene	A	100.0	108.7	1.306003	1.420123		8.7	20
1,3-Dichlorobenzene	A	100.0	106.0	1.348763	1.429108		6.0	20
1,4-Dichlorobenzene	A	100.0	104.8	1.414025	1.481658		4.8	20
Dichlorodifluoromethane	A	100.0	84.60	0.2646311	0.2238753		-15.4	20
1,1-Dichloroethane	A	100.0	100.6	0.4219782	0.4247038	0.1	0.6	20
1,2-Dichloroethane	A	100.0	106.6	0.3881483	0.4135577		6.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQCCV1.D	Calibration Date:	07/30/12 09:48
Sequence:	2H22302	Injection Date:	08/09/12
Lab Sample ID:	2H22302-CCV1	Injection Time:	11:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	102.1	0.2299039	0.2346858		2.1	20	
cis-1,2-Dichloroethene	A	100.0	103.0	0.2923164	0.3010807		3.0	20	
trans-1,2-Dichloroethene	A	100.0	102.0	0.2706481	0.2761907		2.0	20	
1,2-Dichloropropane	A	100.0	108.6	0.2208834	0.2397654		8.5	20	
1,3-Dichloropropane	A	100.0	102.4	0.9533089	0.9761337		2.4	20	
2,2-Dichloropropane	A	100.0	113.4	0.380659	0.4315319		13.4	20	
1,1-Dichloropropene	A	100.0	108.2	0.3461839	0.3745929		8.2	20	
cis-1,3-Dichloropropene	A	100.0	110.2	0.4014071	0.4424709		10.2	20	
trans-1,3-Dichloropropene	A	100.0	106.9	0.9928947	1.061187		6.9	20	
Ethylbenzene	A	100.0	110.2	2.993416	3.300247		10.3	20	
Hexachlorobutadiene	A	100.0	108.4	0.2768995	0.3000414		8.4	20	
2-Hexanone	A	200.0	250.9	0.2794217	0.3504822		25.4	20	*
Isopropylbenzene	A	100.0	113.3	2.843894	3.220947		13.3	20	
p-Isopropyltoluene	A	100.0	108.2	1.937734	2.096917		8.2	20	
Methylene chloride	A	100.0	89.94	0.2732269	0.2457519		-10.1	20	
Naphthalene	Q	100.0	102.0	1.980321	2.350798		2.0	20	
4-Methyl-2-pentanone	A	200.0	263.9	0.1703177	0.2247528		32.0	20	*
Methyl t-Butyl Ether	A	100.0	104.7	0.6006161	0.6289946		4.7	20	
n-Propylbenzene	A	100.0	113.3	2.246051	2.544522		13.3	20	
Styrene	A	100.0	110.0	2.183883	2.402594		10.0	20	
1,1,2,2-Tetrachloroethane	A	100.0	105.1	0.4961926	0.5213186	0.3	5.1	20	
1,1,1,2-Tetrachloroethane	A	100.0	101.6	0.898878	0.9130777		1.6	20	
Tetrachloroethene	A	100.0	105.0	0.888101	0.9325389		5.0	20	
Toluene	A	100.0	104.0	1.582424	1.646108		4.0	20	
1,2,3-Trichlorobenzene	A	100.0	111.4	0.7234561	0.8056437		11.4	20	
1,2,4-Trichlorobenzene	A	100.0	115.2	0.7784328	0.8964855		15.2	20	
1,1,2-Trichloroethane	A	100.0	101.0	0.4518993	0.4566123		1.0	20	
1,1,1-Trichloroethane	A	100.0	107.6	0.4808123	0.5175934		7.6	20	
Trichloroethene	A	100.0	110.4	0.2875668	0.3174377		10.4	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	2213002
Lab File ID:	SEQCCV1.D	Calibration Date:	07/30/12 09:48
Sequence:	2H22302	Injection Date:	08/09/12
Lab Sample ID:	2H22302-CCV1	Injection Time:	11:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	102.2	0.448402	0.4584103		2.2	20
1,2,3-Trichloropropane	A	100.0	108.2	0.2946555	0.3187023		8.2	20
1,3,5-Trimethylbenzene	A	100.0	111.2	1.776362	1.974922		11.2	20
1,2,4-Trimethylbenzene	A	100.0	107.6	1.893477	2.038234		7.6	20
Vinyl chloride	A	100.0	96.42	0.2136571	0.2060095		-3.6	20
Xylenes (total)	A	300.0	325.1	2.416686	2.618414		8.3	20
Bromofluorobenzene	A	30.00	31.03	1.013563	1.048348		3.4	20
Dibromofluoromethane	A	30.00	29.47	0.3010273	0.2957071		-1.8	20
1,2-Dichloroethane-d4	A	30.00	28.88	7.164132E-02	6.897215E-02		-3.7	20
Toluene-d8	A	30.00	29.08	2.401311	2.327759		-3.1	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H01003-BLK1 File ID: 0801BL1.D

Sampled: Prepared: Analyzed: 08/01/12 10:16

Solids: Preparation: 5030B Dilution:

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, 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	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	2.00	Y, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2H01003-BLK1
File ID: 0801BL1.D
Sampled:
Prepared:
Analyzed: 08/01/12 10:16
Solids:
Preparation: 5030B
Dilution:
Batch: 2H01003
Sequence: 2H21505
Calibration: 2121003
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	Y, 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	30.60	102	75 - 120	
Dibromofluoromethane	30.00	31.24	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.81	103	70 - 120	
Toluene-d8	30.00	31.13	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H01003-BS1 File ID: 0801LCS1.D

Sampled: Prepared: Analyzed: 08/01/12 08:56

Solids: Preparation: 5030B Dilution:

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	80.3	2.50	5.00	10.0	Y
71-43-2	Benzene	45.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	45.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	49.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	45.9	0.250	0.500	1.00	
75-25-2	Bromoform	47.5	0.250	0.500	1.00	
74-83-9	Bromomethane	43.0	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	41.6	0.250	0.500	1.00	
78-93-3	2-Butanone	99.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	43.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	40.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	45.0	0.250	0.500	1.00	
75-00-3	Chloroethane	43.9	0.500	1.00	2.00	
67-66-3	Chloroform	44.8	0.250	0.500	1.00	
74-87-3	Chloromethane	34.7	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	43.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	42.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	46.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	45.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	44.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	44.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	45.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	45.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	41.8	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	46.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	44.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	40.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	46.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	46.0	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	47.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	46.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	50.8	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	45.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	41.4	0.250	0.500	2.00	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H01003-BS1 File ID: 0801LCS1.D

Sampled: Prepared: Analyzed: 08/01/12 08:56

Solids: Preparation: 5030B Dilution:

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	109	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	42.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	42.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	39.4	0.500	1.00	2.00	Y
91-20-3	Naphthalene	42.4	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	113	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	48.2	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	43.3	0.250	0.500	1.00	
100-42-5	Styrene	46.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.3	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	51.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	45.7	0.250	0.500	1.00	
108-88-3	Toluene	45.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	40.5	0.250	0.500	2.00	Y
120-82-1	1,2,4-Trichlorobenzene	40.1	0.250	0.500	2.00	Y
79-00-5	1,1,2-Trichloroethane	45.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	48.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	47.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	42.2	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	45.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	46.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	45.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.5	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	134	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.51	102	75 - 120	
Dibromofluoromethane	30.00	31.83	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.26	104	70 - 120	
Toluene-d8	30.00	31.07	104	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H01003-BSD1 File ID: 0801LCD1.D

Sampled: Prepared: Analyzed: 08/01/12 17:48

Solids: Preparation: 5030B Dilution:

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	70.6	2.50	5.00	10.0	Y
71-43-2	Benzene	46.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	46.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	47.4	0.250	0.500	1.00	
75-25-2	Bromoform	45.7	0.250	0.500	1.00	
74-83-9	Bromomethane	41.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	40.8	0.250	0.500	1.00	
78-93-3	2-Butanone	91.5	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	43.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.9	0.250	0.500	1.00	
75-15-0	Carbon disulfide	38.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.8	0.250	0.500	1.00	
108-90-7	Chlorobenzene	46.3	0.250	0.500	1.00	
75-00-3	Chloroethane	41.9	0.500	1.00	2.00	
67-66-3	Chloroform	45.9	0.250	0.500	1.00	
74-87-3	Chloromethane	32.3	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	44.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	44.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	46.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	44.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	47.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	46.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	45.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	45.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	36.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	46.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	47.2	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	39.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	46.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	45.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	48.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	46.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	46.7	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	51.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	44.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	45.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	33.5	0.250	0.500	2.00	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H01003-BSD1 File ID: 0801LCD1.D

Sampled: Prepared: Analyzed: 08/01/12 17:48

Solids: Preparation: 5030B Dilution:

Batch: 2H01003 Sequence: 2H21505 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	43.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	42.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	39.6	0.500	1.00	2.00	Y
91-20-3	Naphthalene	38.5	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	103	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	47.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	44.4	0.250	0.500	1.00	
100-42-5	Styrene	47.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	51.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	45.0	0.250	0.500	1.00	
108-88-3	Toluene	46.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	35.3	0.250	0.500	2.00	Y
120-82-1	1,2,4-Trichlorobenzene	37.4	0.250	0.500	2.00	Y
79-00-5	1,1,2-Trichloroethane	46.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	47.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	41.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	47.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	46.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	45.7	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	137	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.00	103	75 - 120	
Dibromofluoromethane	30.00	31.45	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.72	102	70 - 120	
Toluene-d8	30.00	30.92	103	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H07003-BLK1 File ID: 0807BL1.D

Sampled: Prepared: Analyzed: 08/07/12 09:58

Solids: Preparation: 5030B Dilution:

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	Q, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H07003-BLK1 File ID: 0807BL1.D

Sampled: Prepared: Analyzed: 08/07/12 09:58

Solids: Preparation: 5030B Dilution:

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.60	102	75 - 120	
Dibromofluoromethane	30.00	30.90	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.93	103	70 - 120	
Toluene-d8	30.00	31.22	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_059

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

Matrix: | Laboratory ID: 2H07003-BS1 | File ID: 0807LCS1.D

Sampled: | Prepared: | Analyzed: 08/07/12 08:38

Solids: | Preparation: 5030B | Dilution:

Batch: 2H07003 | Sequence: 2H22201 | Calibration: 2121003 | Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	72.4	2.50	5.00	10.0	
71-43-2	Benzene	45.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	46.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	48.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	47.1	0.250	0.500	1.00	
75-25-2	Bromoform	50.4	0.250	0.500	1.00	
74-83-9	Bromomethane	31.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	43.1	0.250	0.500	1.00	
78-93-3	2-Butanone	96.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	42.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	36.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	46.2	0.250	0.500	1.00	
75-00-3	Chloroethane	39.5	0.500	1.00	2.00	
67-66-3	Chloroform	43.9	0.250	0.500	1.00	
74-87-3	Chloromethane	28.4	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	44.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	43.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	49.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.7	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	46.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	44.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	46.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	46.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	28.9	0.500	1.00	2.00	Y
75-34-3	1,1-Dichloroethane	45.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	44.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	37.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	46.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	45.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	47.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	46.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	49.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	44.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	45.7	0.250	0.500	1.00	
100-41-4	Ethylbenzene	45.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.9	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2H07003-BS1
File ID: 0807LCS1.D
Sampled:
Prepared:
Analyzed: 08/07/12 08:38
Solids:
Preparation: 5030B
Dilution:
Batch: 2H07003
Sequence: 2H22201
Calibration: 2121003
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	105	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	42.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	43.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	38.2	0.500	1.00	2.00	Y
91-20-3	Naphthalene	54.2	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	109	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	44.0	0.250	0.500	1.00	
100-42-5	Styrene	46.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	45.2	0.250	0.500	1.00	
108-88-3	Toluene	45.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	44.8	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	43.6	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	46.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	48.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	46.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	38.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	46.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	46.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	46.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	40.4	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	134	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.84	103	75 - 120	
Dibromofluoromethane	30.00	31.37	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.14	104	70 - 120	
Toluene-d8	30.00	30.94	103	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H07003-BSD1 File ID: 0807LCD1.D

Sampled: Prepared: Analyzed: 08/07/12 17:34

Solids: Preparation: 5030B Dilution:

Batch: 2H07003 Sequence: 2H22201 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	74.3	2.50	5.00	10.0	
71-43-2	Benzene	45.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	44.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	46.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	45.1	0.250	0.500	1.00	
75-25-2	Bromoform	45.6	0.250	0.500	1.00	
74-83-9	Bromomethane	30.6	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	37.4	0.250	0.500	1.00	
78-93-3	2-Butanone	97.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	38.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	42.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	34.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	48.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	44.1	0.250	0.500	1.00	
75-00-3	Chloroethane	38.1	0.500	1.00	2.00	
67-66-3	Chloroform	43.8	0.250	0.500	1.00	
74-87-3	Chloromethane	28.3	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	42.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	42.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	45.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	43.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	44.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	43.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	42.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	43.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	44.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	26.2	0.500	1.00	2.00	Y
75-34-3	1,1-Dichloroethane	44.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	44.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	35.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	45.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	43.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	46.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	44.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	41.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	42.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	48.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	42.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	43.5	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	26.8	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H07003-BSD1	File ID:	0807LCD1.D
Sampled:		Prepared:		Analyzed:	08/07/12 17:34
Solids:		Preparation:	5030B	Dilution:	

Batch:	2H07003	Sequence:	2H22201	Calibration:	2121003	Instrument:	MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	106	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	40.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	39.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	37.2	0.500	1.00	2.00	Y
91-20-3	Naphthalene	42.4	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	111	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	44.8	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	41.6	0.250	0.500	1.00	
100-42-5	Styrene	45.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	42.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	42.0	0.250	0.500	1.00	
108-88-3	Toluene	44.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	32.7	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	35.0	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	44.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	46.1	0.250	0.500	1.00	
79-01-6	Trichloroethene	45.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	36.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	45.6	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	44.9	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	45.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	38.6	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	129	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.63	102	75 - 120	
Dibromofluoromethane	30.00	31.32	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.10	104	70 - 120	
Toluene-d8	30.00	30.95	103	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H09007-BLK1 File ID: 0809BLK1.D

Sampled: Prepared: Analyzed: 08/09/12 13:18

Solids: Preparation: 5030B Dilution:

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H09007-BLK1 File ID: 0809BLK1.D

Sampled: Prepared: Analyzed: 08/09/12 13:18

Solids: Preparation: 5030B Dilution:

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.53	95.1	75 - 120	
Dibromofluoromethane	30.00	30.15	100	85 - 115	
1,2-Dichloroethane-d4	30.00	28.51	95.0	70 - 120	
Toluene-d8	30.00	29.25	97.5	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H09007-BS1 File ID: 0809LCS1.D

Sampled: Prepared: Analyzed: 08/09/12 11:51

Solids: Preparation: 5030B Dilution:

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	2.50	5.00	10.0	
71-43-2	Benzene	52.7	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	49.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	46.2	0.250	0.500	1.00	
75-25-2	Bromoform	49.1	0.250	0.500	1.00	
74-83-9	Bromomethane	48.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	53.9	0.250	0.500	1.00	
78-93-3	2-Butanone	121	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	54.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	46.2	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	44.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.1	0.250	0.500	1.00	
75-00-3	Chloroethane	51.0	0.500	1.00	2.00	
67-66-3	Chloroform	49.5	0.250	0.500	1.00	
74-87-3	Chloromethane	44.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	48.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.2	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	50.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	35.8	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.8	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	49.9	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	52.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	46.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.1	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H09007-BS1 File ID: 0809LCS1.D

Sampled: Prepared: Analyzed: 08/09/12 11:51

Solids: Preparation: 5030B Dilution:

Batch: 2H09007 Sequence: 2H22302 Calibration: 2213002 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	126	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	50.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.5	0.500	1.00	2.00	
91-20-3	Naphthalene	50.1	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	129	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	50.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.8	0.250	0.500	1.00	
100-42-5	Styrene	52.7	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	48.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.4	0.250	0.500	1.00	
108-88-3	Toluene	51.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	54.9	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	53.4	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	50.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.0	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	51.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	52.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.3	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	156	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.23	101	75 - 120	
Dibromofluoromethane	30.00	29.53	98.4	85 - 115	
1,2-Dichloroethane-d4	30.00	29.67	98.9	70 - 120	
Toluene-d8	30.00	29.21	97.4	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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
GW0661	07/31/12 11:56	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 13:06	7.01	14.00	
GW0678	07/31/12 12:25	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 13:33	7.01	14.00	
GW0679	07/31/12 12:25	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 13:59	7.02	14.00	
GW0680	07/31/12 10:15	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 14:26	7.13	14.00	
GW0697	07/30/12 15:22	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 14:53	7.94	14.00	
GW0698	07/30/12 12:05	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 15:20	8.09	14.00	
GW0723	07/30/12 15:51	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 15:46	7.95	14.00	
GW0724	07/30/12 13:42	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 16:13	8.06	14.00	
GW0725	07/30/12 13:42	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 16:40	8.08	14.00	
GW0726	07/30/12 11:36	08/01/12 08:30	08/07/12 00:00	N/A	14.00	08/07/12 17:07	8.19	14.00	
GW8219-TB	07/30/12 08:00	08/01/12 08:30	08/01/12 00:00	N/A	14.00	08/01/12 14:41	2.28	14.00	
GW0631	08/02/12 11:05	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 18:05	7.25	14.00	
GW0639	08/02/12 13:09	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 18:33	7.18	14.00	
GW0649	08/02/12 12:15	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 19:02	7.24	14.00	
GW0650	08/02/12 14:37	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 19:31	7.16	14.00	
GW0662	08/01/12 09:46	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 19:59	8.38	14.00	
GW0663	07/31/12 14:29	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 20:28	9.21	14.00	
GW0677	07/31/12 14:45	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 20:57	9.22	14.00	
GW0710	08/01/12 14:59	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 21:54	8.25	14.00	
GW0711	08/01/12 12:50	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 22:22	8.36	14.00	
GW0712	08/01/12 14:52	08/03/12 08:20	08/09/12 00:00	N/A	14.00	08/09/12 21:25	8.23	14.00	
GW8057-AB	08/02/12 14:37	08/03/12 08:20	08/07/12 00:00	N/A	14.00	08/07/12 12:12	4.86	14.00	
GW8058-AB	08/01/12 12:50	08/03/12 08:20	08/07/12 00:00	N/A	14.00	08/07/12 12:39	5.95	14.00	
GW8220-TB	08/01/12 08:00	08/03/12 08:20	08/07/12 00:00	N/A	14.00	08/07/12 11:19	6.10	14.00	

Data for SW8270D Forms

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	0800501.D
Sampled:	07/31/12 11:56	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 00:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	0800501.D
Sampled:	07/31/12 11:56	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 00:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	33.88	67.8	50 - 110	
2-Fluorophenol	100.0	32.11	32.1	20 - 110	
Nitrobenzene-d5	50.00	31.40	62.8	40 - 110	
Phenol-d6	100.0	18.29	18.3	0 - 110	
Terphenyl-d14	50.00	46.32	92.6	50 - 135	
2,4,6-Tribromophenol	100.0	73.43	73.4	40 - 125	

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	0800503.D
Sampled:	07/31/12 12:25	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 01:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	0800503.D
Sampled:	07/31/12 12:25	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 01:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	38.50	77.0	50 - 110	
2-Fluorophenol	100.0	37.11	37.1	20 - 110	
Nitrobenzene-d5	50.00	32.94	65.9	40 - 110	
Phenol-d6	100.0	21.34	21.3	0 - 110	
Terphenyl-d14	50.00	43.16	86.3	50 - 135	
2,4,6-Tribromophenol	100.0	75.82	75.8	40 - 125	

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	0800505.D
Sampled:	07/31/12 12:25	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 01:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	0800505.D
Sampled:	07/31/12 12:25	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 01:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	37.81	75.6	50 - 110	
2-Fluorophenol	100.0	36.64	36.6	20 - 110	
Nitrobenzene-d5	50.00	32.82	65.6	40 - 110	
Phenol-d6	100.0	21.41	21.4	0 - 110	
Terphenyl-d14	50.00	48.20	96.4	50 - 135	
2,4,6-Tribromophenol	100.0	78.25	78.3	40 - 125	

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	0800507.D
Sampled:	07/31/12 10:15	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 01:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	0800507.D
Sampled:	07/31/12 10:15	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 01:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	35.07	70.1	50 - 110	
2-Fluorophenol	100.0	29.21	29.2	20 - 110	
Nitrobenzene-d5	50.00	30.07	60.1	40 - 110	
Phenol-d6	100.0	18.10	18.1	0 - 110	
Terphenyl-d14	50.00	34.14	68.3	50 - 135	
2,4,6-Tribromophenol	100.0	61.74	61.7	40 - 125	

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	0800509.D
Sampled:	07/30/12 15:22	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 18:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	0800509.D
Sampled:	07/30/12 15:22	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 18:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene	4.49	1.25	2.50	5.00	J
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	6.67	1.25	2.50	5.00	
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	36.95	73.9	50 - 110	
2-Fluorophenol	100.0	29.92	29.9	20 - 110	
Nitrobenzene-d5	50.00	30.33	60.7	40 - 110	
Phenol-d6	100.0	19.19	19.2	0 - 110	
Terphenyl-d14	50.00	29.04	58.1	50 - 135	
2,4,6-Tribromophenol	100.0	78.31	78.3	40 - 125	

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	0800511.D
Sampled:	07/30/12 12:05	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 19:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.32	2.63	5.26	U
208-96-8	Acenaphthylene		1.32	2.63	5.26	U
98-86-2	Acetophenone		1.32	2.63	5.26	U
120-12-7	Anthracene		1.32	2.63	5.26	U
1912-24-9	Atrazine		1.32	2.63	5.26	Q, U
100-52-7	Benzaldehyde		1.32	2.63	5.26	U
92-87-5	Benzidine		13.2	52.6	105	Q, U
56-55-3	Benzo(a)anthracene		1.32	2.63	5.26	U
50-32-8	Benzo(a)pyrene		1.32	2.63	5.26	U
205-99-2	Benzo(b)fluoranthene		1.32	2.63	5.26	U
191-24-2	Benzo(g,h,i)perylene		1.32	2.63	5.26	U
65-85-0	Benzoic acid		13.2	52.6	105	U
207-08-9	Benzo(k)fluoranthene		1.32	2.63	5.26	U
92-52-4	1,1-Biphenyl		1.32	2.63	5.26	U
101-55-3	4-Bromophenyl-phenylether		1.32	2.63	5.26	U
85-68-7	Butylbenzylphthalate		1.32	2.63	5.26	U
105-60-2	Caprolactam		1.32	2.63	5.26	U
86-74-8	Carbazole		1.32	2.63	5.26	U
59-50-7	4-Chloro-3-methylphenol		1.32	2.63	5.26	U
106-47-8	4-Chloroaniline		1.32	2.63	5.26	U
111-91-1	Bis(2-chloroethoxy)methane		1.32	2.63	5.26	U
111-44-4	Bis(2-chloroethyl)ether		1.32	2.63	5.26	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.32	2.63	5.26	X, U
91-58-7	2-Chloronaphthalene		1.32	2.63	5.26	Q, U
95-57-8	2-Chlorophenol		1.32	2.63	5.26	U
7005-72-3	4-Chlorophenyl phenyl ether		1.32	2.63	5.26	U
218-01-9	Chrysene		1.32	2.63	5.26	U
53-70-3	Dibenz(a,h)anthracene		1.32	2.63	5.26	U
132-64-9	Dibenzofuran		1.32	2.63	5.26	Q, U
84-74-2	Di-n-butylphthalate		1.32	2.63	5.26	U
91-94-1	3,3'-Dichlorobenzidine		1.32	2.63	5.26	U
120-83-2	2,4-Dichlorophenol		1.32	2.63	5.26	U
84-66-2	Diethylphthalate		1.32	2.63	5.26	U
105-67-9	2,4-Dimethylphenol		5.26	10.5	21.1	U
131-11-3	Dimethyl phthalate		1.32	2.63	5.26	U
534-52-1	4,6-Dinitro-2-methylphenol		5.26	10.5	21.1	U
51-28-5	2,4-Dinitrophenol		8.77	26.3	52.6	U
121-14-2	2,4-Dinitrotoluene		1.32	2.63	5.26	U
606-20-2	2,6-Dinitrotoluene		1.32	2.63	5.26	U
117-84-0	Di-n-octylphthalate		1.32	2.63	5.26	U

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	0800511.D
Sampled:	07/30/12 12:05	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 19:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.32	2.63	5.26	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.32	2.63	5.26	U
206-44-0	Fluoranthene		1.32	2.63	5.26	U
86-73-7	Fluorene		1.32	2.63	5.26	U
118-74-1	Hexachlorobenzene		1.32	2.63	5.26	U
87-68-3	Hexachlorobutadiene		1.32	2.63	5.26	U
77-47-4	Hexachlorocyclopentadiene		1.32	5.26	10.5	U
67-72-1	Hexachloroethane		1.32	2.63	5.26	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.32	2.63	5.26	U
78-59-1	Isophorone		1.32	2.63	5.26	Q, U
90-12-0	1-Methylnaphthalene		1.32	2.63	5.26	U
91-57-6	2-Methylnaphthalene		1.32	2.63	5.26	Q, U
95-48-7	2-Methylphenol		1.32	2.63	5.26	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.32	2.63	5.26	U
91-20-3	Naphthalene		1.32	2.63	5.26	U
100-01-6	4-Nitroaniline		5.26	10.5	21.1	U
99-09-2	3-Nitroaniline		5.26	10.5	21.1	U
88-74-4	2-Nitroaniline		5.26	10.5	21.1	U
98-95-3	Nitrobenzene		1.32	2.63	5.26	U
100-02-7	4-Nitrophenol		5.26	10.5	21.1	U
88-75-5	2-Nitrophenol		1.32	2.63	5.26	U
86-30-6	N-Nitrosodiphenylamine		1.32	2.63	5.26	U
621-64-7	N-Nitroso-di-n-propylamine		1.32	2.63	5.26	U
87-86-5	Pentachlorophenol		5.26	10.5	21.1	U
85-01-8	Phenanthrene		1.32	2.63	5.26	U
108-95-2	Phenol		1.32	2.63	5.26	U
129-00-0	Pyrene		1.32	2.63	5.26	U
88-06-2	2,4,6-Trichlorophenol		1.32	2.63	5.26	U
95-95-4	2,4,5-Trichlorophenol		1.32	2.63	5.26	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	52.63	36.15	68.7	50 - 110	
2-Fluorophenol	105.3	33.50	31.8	20 - 110	
Nitrobenzene-d5	52.63	35.40	67.3	40 - 110	
Phenol-d6	105.3	20.29	19.3	0 - 110	
Terphenyl-d14	52.63	42.09	80.0	50 - 135	
2,4,6-Tribromophenol	105.3	74.03	70.3	40 - 125	

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	0800513.D
Sampled:	07/30/12 15:51	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	Q, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	X, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	0800513.D
Sampled:	07/30/12 15:51	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	36.44	74.3	50 - 110	
2-Fluorophenol	98.04	32.37	33.0	20 - 110	
Nitrobenzene-d5	49.02	32.72	66.8	40 - 110	
Phenol-d6	98.04	18.54	18.9	0 - 110	
Terphenyl-d14	49.02	45.28	92.4	50 - 135	
2,4,6-Tribromophenol	98.04	88.77	90.5	40 - 125	

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	0800515.D
Sampled:	07/30/12 13:42	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 19:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	0800515.D
Sampled:	07/30/12 13:42	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 19:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	33.24	66.5	50 - 110	
2-Fluorophenol	100.0	23.71	23.7	20 - 110	
Nitrobenzene-d5	50.00	26.50	53.0	40 - 110	
Phenol-d6	100.0	16.51	16.5	0 - 110	
Terphenyl-d14	50.00	31.95	63.9	50 - 135	
2,4,6-Tribromophenol	100.0	66.21	66.2	40 - 125	

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	0800517.D
Sampled:	07/30/12 13:42	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 20:26
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	0800517.D
Sampled:	07/30/12 13:42	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 20:26
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	36.21	72.4	50 - 110	
2-Fluorophenol	100.0	29.44	29.4	20 - 110	
Nitrobenzene-d5	50.00	32.16	64.3	40 - 110	
Phenol-d6	100.0	19.14	19.1	0 - 110	
Terphenyl-d14	50.00	34.38	68.8	50 - 135	
2,4,6-Tribromophenol	100.0	82.78	82.8	40 - 125	

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	0800519.D
Sampled:	07/30/12 11:36	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 20:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	X, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	0800519.D
Sampled:	07/30/12 11:36	Prepared:	08/01/12 14:04	Analyzed:	08/14/12 20:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2G31012 Sequence: 2H22908 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	39.33	78.7	50 - 110	
2-Fluorophenol	100.0	30.20	30.2	20 - 110	
Nitrobenzene-d5	50.00	34.79	69.6	40 - 110	
Phenol-d6	100.0	18.77	18.8	0 - 110	
Terphenyl-d14	50.00	39.92	79.8	50 - 135	
2,4,6-Tribromophenol	100.0	75.99	76.0	40 - 125	

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	0802801.D
Sampled:	08/02/12 11:05	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 16:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam		1.23	2.45	4.90	U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	X, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	0802801.D
Sampled:	08/02/12 11:05	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 16:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	34.79	71.0	50 - 110	
2-Fluorophenol	98.04	26.18	26.7	20 - 110	
Nitrobenzene-d5	49.02	31.90	65.1	40 - 110	
Phenol-d6	98.04	15.31	15.6	0 - 110	
Terphenyl-d14	49.02	43.78	89.3	50 - 135	
2,4,6-Tribromophenol	98.04	67.22	68.6	40 - 125	

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	0802803.D
Sampled:	08/02/12 13:09	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 17:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam		1.23	2.45	4.90	U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	X, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	0802803.D
Sampled:	08/02/12 13:09	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 17:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	38.38	78.3	50 - 110	
2-Fluorophenol	98.04	32.03	32.7	20 - 110	
Nitrobenzene-d5	49.02	34.02	69.4	40 - 110	
Phenol-d6	98.04	18.99	19.4	0 - 110	
Terphenyl-d14	49.02	43.77	89.3	50 - 135	
2,4,6-Tribromophenol	98.04	70.23	71.6	40 - 125	

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	0802805.D
Sampled:	08/02/12 12:15	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 17:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	X, U
105-60-2	Caprolactam		1.20	2.40	4.81	U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	X, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	0802805.D
Sampled:	08/02/12 12:15	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 17:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	36.81	76.6	50 - 110	
2-Fluorophenol	96.15	28.95	30.1	20 - 110	
Nitrobenzene-d5	48.08	34.75	72.3	40 - 110	
Phenol-d6	96.15	16.66	17.3	0 - 110	
Terphenyl-d14	48.08	38.16	79.4	50 - 135	
2,4,6-Tribromophenol	96.15	66.05	68.7	40 - 125	

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	0802807.D
Sampled:	08/02/12 14:37	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 18:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	0802807.D
Sampled:	08/02/12 14:37	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 18:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.57	87.1	50 - 110	
2-Fluorophenol	100.0	56.58	56.6	20 - 110	
Nitrobenzene-d5	50.00	35.82	71.6	40 - 110	
Phenol-d6	100.0	40.25	40.3	0 - 110	
Terphenyl-d14	50.00	46.54	93.1	50 - 135	
2,4,6-Tribromophenol	100.0	75.54	75.5	40 - 125	

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	0802809.D
Sampled:	08/01/12 09:46	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 18:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	X, U
105-60-2	Caprolactam		1.20	2.40	4.81	U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	X, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	0802809.D
Sampled:	08/01/12 09:46	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 18:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	31.82	66.2	50 - 110	
2-Fluorophenol	96.15	22.88	23.8	20 - 110	
Nitrobenzene-d5	48.08	28.09	58.4	40 - 110	
Phenol-d6	96.15	13.86	14.4	0 - 110	
Terphenyl-d14	48.08	35.46	73.8	50 - 135	
2,4,6-Tribromophenol	96.15	62.40	64.9	40 - 125	

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	0802811.D
Sampled:	07/31/12 14:29	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 19:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	X, U
105-60-2	Caprolactam		1.20	2.40	4.81	U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	X, U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	0802811.D
Sampled:	07/31/12 14:29	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 19:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	39.08	81.3	50 - 110	
2-Fluorophenol	96.15	26.40	27.5	20 - 110	
Nitrobenzene-d5	48.08	34.42	71.6	40 - 110	
Phenol-d6	96.15	14.81	15.4	0 - 110	
Terphenyl-d14	48.08	36.77	76.5	50 - 135	
2,4,6-Tribromophenol	96.15	68.70	71.4	40 - 125	

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	0802813.D
Sampled:	07/31/12 14:45	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	0802813.D
Sampled:	07/31/12 14:45	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.44	82.9	50 - 110	
2-Fluorophenol	100.0	29.54	29.5	20 - 110	
Nitrobenzene-d5	50.00	36.65	73.3	40 - 110	
Phenol-d6	100.0	17.10	17.1	0 - 110	
Terphenyl-d14	50.00	38.21	76.4	50 - 135	
2,4,6-Tribromophenol	100.0	69.90	69.9	40 - 125	

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15	File ID:	0802815.D
Sampled:	08/01/12 14:59	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 19:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone	304	1.18	2.36	4.72	E
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	Q, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	47.2	94.3	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	X, U
105-60-2	Caprolactam		1.18	2.36	4.72	U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	X, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15	File ID:	0802815.D
Sampled:	08/01/12 14:59	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 19:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene	22.1	1.18	2.36	4.72	
91-57-6	2-Methylnaphthalene	25.9	1.18	2.36	4.72	
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	92.4	1.18	2.36	4.72	
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	31.92	67.7	50 - 110	
2-Fluorophenol	94.34	22.53	23.9	20 - 110	
Nitrobenzene-d5	47.17	29.57	62.7	40 - 110	
Phenol-d6	94.34	13.24	14.0	0 - 110	
Terphenyl-d14	47.17	27.25	57.8	50 - 135	
2,4,6-Tribromophenol	94.34	69.83	74.0	40 - 125	

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15RE1	File ID:	0802815D.D
Sampled:	08/01/12 14:59	Prepared:	08/03/12 13:15	Analyzed:	08/17/12 20:12
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 2H03006 Sequence: 2H23305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		11.8	23.6	47.2	U
208-96-8	Acenaphthylene		11.8	23.6	47.2	U
98-86-2	Acetophenone	316	11.8	23.6	47.2	D
120-12-7	Anthracene		11.8	23.6	47.2	U
1912-24-9	Atrazine		11.8	23.6	47.2	Q, U
100-52-7	Benzaldehyde		11.8	23.6	47.2	U
92-87-5	Benzidine		118	472	943	U
56-55-3	Benzo(a)anthracene		11.8	23.6	47.2	U
50-32-8	Benzo(a)pyrene		11.8	23.6	47.2	U
205-99-2	Benzo(b)fluoranthene		11.8	23.6	47.2	U
191-24-2	Benzo(g,h,i)perylene		11.8	23.6	47.2	U
65-85-0	Benzoic acid		118	472	943	U
207-08-9	Benzo(k)fluoranthene		11.8	23.6	47.2	U
92-52-4	1,1-Biphenyl		11.8	23.6	47.2	U
101-55-3	4-Bromophenyl-phenylether		11.8	23.6	47.2	U
85-68-7	Butylbenzylphthalate		11.8	23.6	47.2	U
105-60-2	Caprolactam		11.8	23.6	47.2	U
86-74-8	Carbazole		11.8	23.6	47.2	U
59-50-7	4-Chloro-3-methylphenol		11.8	23.6	47.2	U
106-47-8	4-Chloroaniline		11.8	23.6	47.2	U
111-91-1	Bis(2-chloroethoxy)methane		11.8	23.6	47.2	U
111-44-4	Bis(2-chloroethyl)ether		11.8	23.6	47.2	U
108-60-1	2,2'-Oxybis-1-chloropropane		11.8	23.6	47.2	X, U
91-58-7	2-Chloronaphthalene		11.8	23.6	47.2	U
95-57-8	2-Chlorophenol		11.8	23.6	47.2	U
7005-72-3	4-Chlorophenyl phenyl ether		11.8	23.6	47.2	U
218-01-9	Chrysene		11.8	23.6	47.2	U
53-70-3	Dibenz(a,h)anthracene		11.8	23.6	47.2	U
132-64-9	Dibenzofuran		11.8	23.6	47.2	U
84-74-2	Di-n-butylphthalate		11.8	23.6	47.2	U
91-94-1	3,3'-Dichlorobenzidine		11.8	23.6	47.2	U
120-83-2	2,4-Dichlorophenol		11.8	23.6	47.2	U
84-66-2	Diethylphthalate		11.8	23.6	47.2	U
105-67-9	2,4-Dimethylphenol		47.2	94.3	189	U
131-11-3	Dimethyl phthalate		11.8	23.6	47.2	U
534-52-1	4,6-Dinitro-2-methylphenol		47.2	94.3	189	U
51-28-5	2,4-Dinitrophenol		78.6	236	472	U
121-14-2	2,4-Dinitrotoluene		11.8	23.6	47.2	U
606-20-2	2,6-Dinitrotoluene		11.8	23.6	47.2	U
117-84-0	Di-n-octylphthalate		11.8	23.6	47.2	U

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15RE1	File ID:	0802815D.D
Sampled:	08/01/12 14:59	Prepared:	08/03/12 13:15	Analyzed:	08/17/12 20:12
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 2H03006 Sequence: 2H23305 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		11.8	23.6	47.2	U
117-81-7	Bis(2-ethylhexyl)phthalate		11.8	23.6	47.2	U
206-44-0	Fluoranthene		11.8	23.6	47.2	U
86-73-7	Fluorene		11.8	23.6	47.2	U
118-74-1	Hexachlorobenzene		11.8	23.6	47.2	U
87-68-3	Hexachlorobutadiene		11.8	23.6	47.2	U
77-47-4	Hexachlorocyclopentadiene		11.8	47.2	94.3	U
67-72-1	Hexachloroethane		11.8	23.6	47.2	U
193-39-5	Indeno(1,2,3-cd)pyrene		11.8	23.6	47.2	U
78-59-1	Isophorone		11.8	23.6	47.2	U
90-12-0	1-Methylnaphthalene	21.2	11.8	23.6	47.2	J, D
91-57-6	2-Methylnaphthalene	26.3	11.8	23.6	47.2	J, D
95-48-7	2-Methylphenol		11.8	23.6	47.2	U
108-39-4/106	3-Methylphenol/4-Methylphenol		11.8	23.6	47.2	U
91-20-3	Naphthalene	77.1	11.8	23.6	47.2	D
100-01-6	4-Nitroaniline		47.2	94.3	189	U
99-09-2	3-Nitroaniline		47.2	94.3	189	U
88-74-4	2-Nitroaniline		47.2	94.3	189	U
98-95-3	Nitrobenzene		11.8	23.6	47.2	U
100-02-7	4-Nitrophenol		47.2	94.3	189	U
88-75-5	2-Nitrophenol		11.8	23.6	47.2	U
86-30-6	N-Nitrosodiphenylamine		11.8	23.6	47.2	U
621-64-7	N-Nitroso-di-n-propylamine		11.8	23.6	47.2	U
87-86-5	Pentachlorophenol		47.2	94.3	189	U
85-01-8	Phenanthrene		11.8	23.6	47.2	U
108-95-2	Phenol		11.8	23.6	47.2	U
129-00-0	Pyrene		11.8	23.6	47.2	U
88-06-2	2,4,6-Trichlorophenol		11.8	23.6	47.2	U
95-95-4	2,4,5-Trichlorophenol		11.8	23.6	47.2	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	38.53	81.7	50 - 110	
2-Fluorophenol	94.34	23.28	24.7	20 - 110	
Nitrobenzene-d5	47.17	29.06	61.6	40 - 110	
Phenol-d6	94.34	ND		0 - 110	U
Terphenyl-d14	47.17	26.45	56.1	50 - 135	X
2,4,6-Tribromophenol	94.34	59.82	63.4	40 - 125	

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17	File ID:	0802817.D
Sampled:	08/01/12 12:50	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 20:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone	29.1	1.18	2.36	4.72	
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	Q, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	47.2	94.3	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	47.2	94.3	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	X, U
105-60-2	Caprolactam		1.18	2.36	4.72	U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	X, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	U
51-28-5	2,4-Dinitrophenol		7.86	23.6	47.2	U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17	File ID:	0802817.D
Sampled:	08/01/12 12:50	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 20:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	4.72	9.43	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene	22.7	1.18	2.36	4.72	
91-57-6	2-Methylnaphthalene	21.3	1.18	2.36	4.72	
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	75.9	1.18	2.36	4.72	
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	35.76	75.8	50 - 110	
2-Fluorophenol	94.34	26.54	28.1	20 - 110	
Nitrobenzene-d5	47.17	29.72	63.0	40 - 110	
Phenol-d6	94.34	17.01	18.0	0 - 110	
Terphenyl-d14	47.17	32.40	68.7	50 - 135	
2,4,6-Tribromophenol	94.34	78.06	82.7	40 - 125	

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	0802819.D
Sampled:	08/01/12 14:52	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 20:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam		1.23	2.45	4.90	U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	X, U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	0802819.D
Sampled:	08/01/12 14:52	Prepared:	08/03/12 13:15	Analyzed:	08/16/12 20:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	41.36	84.4	50 - 110	
2-Fluorophenol	98.04	30.87	31.5	20 - 110	
Nitrobenzene-d5	49.02	37.21	75.9	40 - 110	
Phenol-d6	98.04	18.47	18.8	0 - 110	
Terphenyl-d14	49.02	41.65	85.0	50 - 135	
2,4,6-Tribromophenol	98.04	76.14	77.7	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22708	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22708-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/13/12 14:35		
2-Fluorobiphenyl	50.00	102	80 - 120	8.217	8.217	0.0000	+/-0.500	
2-Fluorophenol	100.0	102	80 - 120	3.578	3.578	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	88.4	80 - 120	5.879	5.879	0.0000	+/-0.500	
Phenol-d6	100.0	103	80 - 120	4.72	4.72	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	12.785	12.785	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	110	80 - 120	10.025	10.025	0.0000	+/-0.500	
Blank (2G31012-BLK1) ug/L				Lab File ID: G31012B1.D		Analyzed: 08/13/12 15:33		
2-Fluorobiphenyl	50.00	59.0	50 - 110	8.223	8.217	0.0060	+/-0.500	
2-Fluorophenol	100.0	30.0	20 - 110	3.569	3.578	-0.0090	+/-0.500	
Nitrobenzene-d5	50.00	57.0	40 - 110	5.874	5.879	-0.0050	+/-0.500	
Phenol-d6	100.0	16.4	0 - 110	4.707	4.72	-0.0130	+/-0.500	
Terphenyl-d14	50.00	79.5	50 - 135	12.788	12.785	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	69.7	40 - 125	10.019	10.025	-0.0060	+/-0.500	
LCS (2G31012-BS1) ug/L				Lab File ID: G31012L1.D		Analyzed: 08/13/12 16:00		
2-Fluorobiphenyl	50.00	59.3	50 - 110	8.215	8.217	-0.0020	+/-0.500	
2-Fluorophenol	100.0	30.9	20 - 110	3.578	3.578	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	53.6	40 - 110	5.875	5.879	-0.0040	+/-0.500	
Phenol-d6	100.0	17.9	0 - 110	4.715	4.72	-0.0050	+/-0.500	
Terphenyl-d14	50.00	75.9	50 - 135	12.792	12.785	0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	73.2	40 - 125	10.024	10.025	-0.0010	+/-0.500	
LCS Dup (2G31012-BSD1) ug/L				Lab File ID: G31012L2.D		Analyzed: 08/13/12 16:28		
2-Fluorobiphenyl	50.00	65.7	50 - 110	8.217	8.217	0.0000	+/-0.500	
2-Fluorophenol	100.0	28.1	20 - 110	3.575	3.578	-0.0030	+/-0.500	
Nitrobenzene-d5	50.00	55.7	40 - 110	5.877	5.879	-0.0020	+/-0.500	
Phenol-d6	100.0	17.3	0 - 110	4.716	4.72	-0.0040	+/-0.500	
Terphenyl-d14	50.00	76.3	50 - 135	12.791	12.785	0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	75.9	40 - 125	10.026	10.025	0.0010	+/-0.500	
GW0661 (1208005-01) ug/L				Lab File ID: 0800501.D		Analyzed: 08/14/12 00:38		
2-Fluorobiphenyl	50.00	67.8	50 - 110	8.215	8.217	-0.0020	+/-0.500	
2-Fluorophenol	100.0	32.1	20 - 110	3.573	3.578	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	62.8	40 - 110	5.874	5.879	-0.0050	+/-0.500	
Phenol-d6	100.0	18.3	0 - 110	4.707	4.72	-0.0130	+/-0.500	
Terphenyl-d14	50.00	92.6	50 - 135	12.791	12.785	0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	73.4	40 - 125	10.017	10.025	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22708	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0678 (1208005-03) ug/L				Lab File ID: 0800503.D		Analyzed: 08/14/12 01:05		
2-Fluorobiphenyl	50.00	77.0	50 - 110	8.216	8.217	-0.0010	+/-0.500	
2-Fluorophenol	100.0	37.1	20 - 110	3.573	3.578	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	65.9	40 - 110	5.873	5.879	-0.0060	+/-0.500	
Phenol-d6	100.0	21.3	0 - 110	4.709	4.72	-0.0110	+/-0.500	
Terphenyl-d14	50.00	86.3	50 - 135	12.784	12.785	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	75.8	40 - 125	10.017	10.025	-0.0080	+/-0.500	
GW0679 (1208005-05) ug/L				Lab File ID: 0800505.D		Analyzed: 08/14/12 01:32		
2-Fluorobiphenyl	50.00	75.6	50 - 110	8.215	8.217	-0.0020	+/-0.500	
2-Fluorophenol	100.0	36.6	20 - 110	3.572	3.578	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	65.6	40 - 110	5.876	5.879	-0.0030	+/-0.500	
Phenol-d6	100.0	21.4	0 - 110	4.71	4.72	-0.0100	+/-0.500	
Terphenyl-d14	50.00	96.4	50 - 135	12.785	12.785	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	78.3	40 - 125	10.017	10.025	-0.0080	+/-0.500	
GW0680 (1208005-07) ug/L				Lab File ID: 0800507.D		Analyzed: 08/14/12 01:59		
2-Fluorobiphenyl	50.00	70.1	50 - 110	8.223	8.217	0.0060	+/-0.500	
2-Fluorophenol	100.0	29.2	20 - 110	3.575	3.578	-0.0030	+/-0.500	
Nitrobenzene-d5	50.00	60.1	40 - 110	5.877	5.879	-0.0020	+/-0.500	
Phenol-d6	100.0	18.1	0 - 110	4.711	4.72	-0.0090	+/-0.500	
Terphenyl-d14	50.00	68.3	50 - 135	12.787	12.785	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	61.7	40 - 125	10.015	10.025	-0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22908	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22908-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/14/12 14:32		
2-Fluorobiphenyl	50.00	101	80 - 120	8.223	8.223	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	3.573	3.573	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	90.2	80 - 120	5.874	5.874	0.0000	+/-0.500	
Phenol-d6	100.0	105	80 - 120	4.714	4.714	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	12.784	12.784	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	104	80 - 120	10.023	10.023	0.0000	+/-0.500	
GW0697 (1208005-09) ug/L				Lab File ID: 0800509.D		Analyzed: 08/14/12 18:38		
2-Fluorobiphenyl	50.00	73.9	50 - 110	8.222	8.223	-0.0010	+/-0.500	
2-Fluorophenol	100.0	29.9	20 - 110	3.577	3.573	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	60.7	40 - 110	5.874	5.874	0.0000	+/-0.500	
Phenol-d6	100.0	19.2	0 - 110	4.717	4.714	0.0030	+/-0.500	
Terphenyl-d14	50.00	58.1	50 - 135	12.784	12.784	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	78.3	40 - 125	10.02	10.023	-0.0030	+/-0.500	
GW0698 (1208005-11) ug/L				Lab File ID: 0800511.D		Analyzed: 08/14/12 19:05		
2-Fluorobiphenyl	52.63	68.7	50 - 110	8.216	8.223	-0.0070	+/-0.500	
2-Fluorophenol	105.3	31.8	20 - 110	3.571	3.573	-0.0020	+/-0.500	
Nitrobenzene-d5	52.63	67.3	40 - 110	5.868	5.874	-0.0060	+/-0.500	
Phenol-d6	105.3	19.3	0 - 110	4.714	4.714	0.0000	+/-0.500	
Terphenyl-d14	52.63	80.0	50 - 135	12.785	12.784	0.0010	+/-0.500	
2,4,6-Tribromophenol	105.3	70.3	40 - 125	10.012	10.023	-0.0110	+/-0.500	
GW0723 (1208005-13) ug/L				Lab File ID: 0800513.D		Analyzed: 08/14/12 19:32		
2-Fluorobiphenyl	49.02	74.3	50 - 110	8.212	8.223	-0.0110	+/-0.500	
2-Fluorophenol	98.04	33.0	20 - 110	3.571	3.573	-0.0020	+/-0.500	
Nitrobenzene-d5	49.02	66.8	40 - 110	5.874	5.874	0.0000	+/-0.500	
Phenol-d6	98.04	18.9	0 - 110	4.713	4.714	-0.0010	+/-0.500	
Terphenyl-d14	49.02	92.4	50 - 135	12.788	12.784	0.0040	+/-0.500	
2,4,6-Tribromophenol	98.04	90.5	40 - 125	10.015	10.023	-0.0080	+/-0.500	
GW0724 (1208005-15) ug/L				Lab File ID: 0800515.D		Analyzed: 08/14/12 19:59		
2-Fluorobiphenyl	50.00	66.5	50 - 110	8.215	8.223	-0.0080	+/-0.500	
2-Fluorophenol	100.0	23.7	20 - 110	3.578	3.573	0.0050	+/-0.500	
Nitrobenzene-d5	50.00	53.0	40 - 110	5.866	5.874	-0.0080	+/-0.500	
Phenol-d6	100.0	16.5	0 - 110	4.711	4.714	-0.0030	+/-0.500	
Terphenyl-d14	50.00	63.9	50 - 135	12.784	12.784	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	66.2	40 - 125	10.015	10.023	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22908	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0725 (1208005-17) ug/L				Lab File ID: 0800517.D		Analyzed: 08/14/12 20:26		
2-Fluorobiphenyl	50.00	72.4	50 - 110	8.217	8.223	-0.0060	+/-0.500	
2-Fluorophenol	100.0	29.4	20 - 110	3.575	3.573	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	64.3	40 - 110	5.869	5.874	-0.0050	+/-0.500	
Phenol-d6	100.0	19.1	0 - 110	4.716	4.714	0.0020	+/-0.500	
Terphenyl-d14	50.00	68.8	50 - 135	12.787	12.784	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	82.8	40 - 125	10.018	10.023	-0.0050	+/-0.500	
GW0726 (1208005-19) ug/L				Lab File ID: 0800519.D		Analyzed: 08/14/12 20:53		
2-Fluorobiphenyl	50.00	78.7	50 - 110	8.218	8.223	-0.0050	+/-0.500	
2-Fluorophenol	100.0	30.2	20 - 110	3.571	3.573	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	69.6	40 - 110	5.868	5.874	-0.0060	+/-0.500	
Phenol-d6	100.0	18.8	0 - 110	4.706	4.714	-0.0080	+/-0.500	
Terphenyl-d14	50.00	79.8	50 - 135	12.784	12.784	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	76.0	40 - 125	10.017	10.023	-0.0060	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H23001-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/16/12 13:06		
2-Fluorobiphenyl	50.00	104	80 - 120	8.215	8.215	0.0000	+/-0.500	
2-Fluorophenol	100.0	106	80 - 120	3.573	3.573	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.1	80 - 120	5.87	5.87	0.0000	+/-0.500	
Phenol-d6	100.0	112	80 - 120	4.716	4.716	0.0000	+/-0.500	
Terphenyl-d14	50.00	106	80 - 120	12.781	12.781	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	104	80 - 120	10.018	10.018	0.0000	+/-0.500	
Blank (2H03006-BLK1) ug/L				Lab File ID: H03006B1.D		Analyzed: 08/16/12 14:01		
2-Fluorobiphenyl	50.00	68.6	50 - 110	8.22	8.215	0.0050	+/-0.500	
2-Fluorophenol	100.0	28.0	20 - 110	3.57	3.573	-0.0030	+/-0.500	
Nitrobenzene-d5	50.00	61.3	40 - 110	5.872	5.87	0.0020	+/-0.500	
Phenol-d6	100.0	16.2	0 - 110	4.712	4.716	-0.0040	+/-0.500	
Terphenyl-d14	50.00	76.0	50 - 135	12.782	12.781	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	60.5	40 - 125	10.013	10.018	-0.0050	+/-0.500	
LCS (2H03006-BS1) ug/L				Lab File ID: H03006L1.D		Analyzed: 08/16/12 14:28		
2-Fluorobiphenyl	50.00	71.0	50 - 110	8.22	8.215	0.0050	+/-0.500	
2-Fluorophenol	100.0	34.9	20 - 110	3.577	3.573	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	65.2	40 - 110	5.869	5.87	-0.0010	+/-0.500	
Phenol-d6	100.0	20.0	0 - 110	4.711	4.716	-0.0050	+/-0.500	
Terphenyl-d14	50.00	79.0	50 - 135	12.784	12.781	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	69.2	40 - 125	10.015	10.018	-0.0030	+/-0.500	
LCS Dup (2H03006-BSD1) ug/L				Lab File ID: H03006L2.D		Analyzed: 08/16/12 14:56		
2-Fluorobiphenyl	50.00	72.1	50 - 110	8.215	8.215	0.0000	+/-0.500	
2-Fluorophenol	100.0	29.1	20 - 110	3.577	3.573	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	63.8	40 - 110	5.875	5.87	0.0050	+/-0.500	
Phenol-d6	100.0	17.2	0 - 110	4.711	4.716	-0.0050	+/-0.500	
Terphenyl-d14	50.00	84.7	50 - 135	12.786	12.781	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	75.7	40 - 125	10.022	10.018	0.0040	+/-0.500	
GW0631 (1208028-01) ug/L				Lab File ID: 0802801.D		Analyzed: 08/16/12 16:47		
2-Fluorobiphenyl	49.02	71.0	50 - 110	8.214	8.215	-0.0010	+/-0.500	
2-Fluorophenol	98.04	26.7	20 - 110	3.579	3.573	0.0060	+/-0.500	
Nitrobenzene-d5	49.02	65.1	40 - 110	5.875	5.87	0.0050	+/-0.500	
Phenol-d6	98.04	15.6	0 - 110	4.71	4.716	-0.0060	+/-0.500	
Terphenyl-d14	49.02	89.3	50 - 135	12.791	12.781	0.0100	+/-0.500	
2,4,6-Tribromophenol	98.04	68.6	40 - 125	10.02	10.018	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0639 (1208028-03) ug/L				Lab File ID: 0802803.D		Analyzed: 08/16/12 17:15		
2-Fluorobiphenyl	49.02	78.3	50 - 110	8.221	8.215	0.0060	+/-0.500	
2-Fluorophenol	98.04	32.7	20 - 110	3.581	3.573	0.0080	+/-0.500	
Nitrobenzene-d5	49.02	69.4	40 - 110	5.879	5.87	0.0090	+/-0.500	
Phenol-d6	98.04	19.4	0 - 110	4.717	4.716	0.0010	+/-0.500	
Terphenyl-d14	49.02	89.3	50 - 135	12.791	12.781	0.0100	+/-0.500	
2,4,6-Tribromophenol	98.04	71.6	40 - 125	10.02	10.018	0.0020	+/-0.500	
GW0649 (1208028-05) ug/L				Lab File ID: 0802805.D		Analyzed: 08/16/12 17:42		
2-Fluorobiphenyl	48.08	76.6	50 - 110	8.218	8.215	0.0030	+/-0.500	
2-Fluorophenol	96.15	30.1	20 - 110	3.576	3.573	0.0030	+/-0.500	
Nitrobenzene-d5	48.08	72.3	40 - 110	5.872	5.87	0.0020	+/-0.500	
Phenol-d6	96.15	17.3	0 - 110	4.72	4.716	0.0040	+/-0.500	
Terphenyl-d14	48.08	79.4	50 - 135	12.789	12.781	0.0080	+/-0.500	
2,4,6-Tribromophenol	96.15	68.7	40 - 125	10.018	10.018	0.0000	+/-0.500	
GW0650 (1208028-07) ug/L				Lab File ID: 0802807.D		Analyzed: 08/16/12 18:10		
2-Fluorobiphenyl	50.00	87.1	50 - 110	8.216	8.215	0.0010	+/-0.500	
2-Fluorophenol	100.0	56.6	20 - 110	3.579	3.573	0.0060	+/-0.500	
Nitrobenzene-d5	50.00	71.6	40 - 110	5.875	5.87	0.0050	+/-0.500	
Phenol-d6	100.0	40.3	0 - 110	4.71	4.716	-0.0060	+/-0.500	
Terphenyl-d14	50.00	93.1	50 - 135	12.793	12.781	0.0120	+/-0.500	
2,4,6-Tribromophenol	100.0	75.5	40 - 125	10.018	10.018	0.0000	+/-0.500	
GW0662 (1208028-09) ug/L				Lab File ID: 0802809.D		Analyzed: 08/16/12 18:37		
2-Fluorobiphenyl	48.08	66.2	50 - 110	8.22	8.215	0.0050	+/-0.500	
2-Fluorophenol	96.15	23.8	20 - 110	3.577	3.573	0.0040	+/-0.500	
Nitrobenzene-d5	48.08	58.4	40 - 110	5.877	5.87	0.0070	+/-0.500	
Phenol-d6	96.15	14.4	0 - 110	4.711	4.716	-0.0050	+/-0.500	
Terphenyl-d14	48.08	73.8	50 - 135	12.788	12.781	0.0070	+/-0.500	
2,4,6-Tribromophenol	96.15	64.9	40 - 125	10.019	10.018	0.0010	+/-0.500	
GW0663 (1208028-11) ug/L				Lab File ID: 0802811.D		Analyzed: 08/16/12 19:05		
2-Fluorobiphenyl	48.08	81.3	50 - 110	8.219	8.215	0.0040	+/-0.500	
2-Fluorophenol	96.15	27.5	20 - 110	3.572	3.573	-0.0010	+/-0.500	
Nitrobenzene-d5	48.08	71.6	40 - 110	5.873	5.87	0.0030	+/-0.500	
Phenol-d6	96.15	15.4	0 - 110	4.717	4.716	0.0010	+/-0.500	
Terphenyl-d14	48.08	76.5	50 - 135	12.787	12.781	0.0060	+/-0.500	
2,4,6-Tribromophenol	96.15	71.4	40 - 125	10.019	10.018	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0677 (1208028-13) ug/L				Lab File ID: 0802813.D		Analyzed: 08/16/12 19:32		
2-Fluorobiphenyl	50.00	82.9	50 - 110	8.22	8.215	0.0050	+/-0.500	
2-Fluorophenol	100.0	29.5	20 - 110	3.572	3.573	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	73.3	40 - 110	5.875	5.87	0.0050	+/-0.500	
Phenol-d6	100.0	17.1	0 - 110	4.71	4.716	-0.0060	+/-0.500	
Terphenyl-d14	50.00	76.4	50 - 135	12.79	12.781	0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	69.9	40 - 125	10.019	10.018	0.0010	+/-0.500	
GW0710 (1208028-15) ug/L				Lab File ID: 0802815.D		Analyzed: 08/16/12 19:59		
2-Fluorobiphenyl	47.17	67.7	50 - 110	8.226	8.215	0.0110	+/-0.500	
2-Fluorophenol	94.34	23.9	20 - 110	3.613	3.573	0.0400	+/-0.500	
Nitrobenzene-d5	47.17	62.7	40 - 110	5.879	5.87	0.0090	+/-0.500	
Phenol-d6	94.34	14.0	0 - 110	4.782	4.716	0.0660	+/-0.500	
Terphenyl-d14	47.17	57.8	50 - 135	12.789	12.781	0.0080	+/-0.500	
2,4,6-Tribromophenol	94.34	74.0	40 - 125	10.025	10.018	0.0070	+/-0.500	
GW0711 (1208028-17) ug/L				Lab File ID: 0802817.D		Analyzed: 08/16/12 20:27		
2-Fluorobiphenyl	47.17	75.8	50 - 110	8.226	8.215	0.0110	+/-0.500	
2-Fluorophenol	94.34	28.1	20 - 110	3.599	3.573	0.0260	+/-0.500	
Nitrobenzene-d5	47.17	63.0	40 - 110	5.872	5.87	0.0020	+/-0.500	
Phenol-d6	94.34	18.0	0 - 110	4.746	4.716	0.0300	+/-0.500	
Terphenyl-d14	47.17	68.7	50 - 135	12.788	12.781	0.0070	+/-0.500	
2,4,6-Tribromophenol	94.34	82.7	40 - 125	10.026	10.018	0.0080	+/-0.500	
GW0712 (1208028-19) ug/L				Lab File ID: 0802819.D		Analyzed: 08/16/12 20:54		
2-Fluorobiphenyl	49.02	84.4	50 - 110	8.219	8.215	0.0040	+/-0.500	
2-Fluorophenol	98.04	31.5	20 - 110	3.576	3.573	0.0030	+/-0.500	
Nitrobenzene-d5	49.02	75.9	40 - 110	5.871	5.87	0.0010	+/-0.500	
Phenol-d6	98.04	18.8	0 - 110	4.709	4.716	-0.0070	+/-0.500	
Terphenyl-d14	49.02	85.0	50 - 135	12.784	12.781	0.0030	+/-0.500	
2,4,6-Tribromophenol	98.04	77.7	40 - 125	10.017	10.018	-0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23305	Instrument:	MS-BNA1
		Calibration:	2156006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H23305-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/17/12 14:17		
2-Fluorobiphenyl	50.00	106	80 - 120	8.213	8.213	0.0000	+/-0.500	
2-Fluorophenol	100.0	108	80 - 120	3.571	3.571	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.1	80 - 120	5.871	5.871	0.0000	+/-0.500	
Phenol-d6	100.0	111	80 - 120	4.713	4.713	0.0000	+/-0.500	
Terphenyl-d14	50.00	121	80 - 120	12.786	12.786	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	102	80 - 120	10.018	10.018	0.0000	+/-0.500	
GW0710 (1208028-15RE1) ug/L				Lab File ID: 0802815D.D		Analyzed: 08/17/12 20:12		
2-Fluorobiphenyl	47.17	81.7	50 - 110	8.214	8.213	0.0010	+/-0.500	
2-Fluorophenol	94.34	24.7	20 - 110	3.578	3.571	0.0070	+/-0.500	
Nitrobenzene-d5	47.17	61.6	40 - 110	5.867	5.871	-0.0040	+/-0.500	
Phenol-d6	94.34		0 - 110		4.713	-4.7130	+/-0.500	*
Terphenyl-d14	47.17	56.1	50 - 135	12.783	12.786	-0.0030	+/-0.500	
2,4,6-Tribromophenol	94.34	63.4	40 - 125	10.017	10.018	-0.0010	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G31012	Laboratory ID:	2G31012-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	24.71	49.4	45 - 110
Acenaphthylene	50.00	26.67	53.3	50 - 105
Acetophenone	50.00	33.99	68.0	50 - 110
Anthracene	50.00	33.40	66.8	55 - 110
Atrazine	**50.00**	**32.62**	**65.2**	**70 - 115**
Benzaldehyde	50.00	30.51	61.0	10 - 180
Benzidine	50.00	100 U	0	0 - 200
Benzo(a)anthracene	50.00	32.48	65.0	55 - 110
Benzo(a)pyrene	50.00	32.62	65.2	55 - 110
Benzo(b)fluoranthene	50.00	31.55	63.1	45 - 120
Benzo(g,h,i)perylene	50.00	33.47	66.9	40 - 125
Benzoic acid	100.0	15.13	15.1	0 - 125
Benzo(k)fluoranthene	50.00	36.04	72.1	45 - 125
1,1-Biphenyl	50.00	32.72	65.4	50 - 110
4-Bromophenyl-phenylether	50.00	30.29	60.6	50 - 115
Butylbenzylphthalate	50.00	37.02	74.0	45 - 115
Caprolactam	50.00	5.050	10.1	10 - 110
Carbazole	50.00	40.16	80.3	50 - 115
4-Chloro-3-methylphenol	100.0	61.28	61.3	45 - 110
4-Chloroaniline	50.00	32.84	65.7	15 - 110
Bis(2-chloroethoxy)methane	50.00	26.66	53.3	45 - 105
Bis(2-chloroethyl)ether	50.00	25.91	51.8	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	33.41	66.8	25 - 130
2-Chloronaphthalene	**50.00**	**20.86**	**41.7**	**50 - 105**
2-Chlorophenol	100.0	59.57	59.6	35 - 105
4-Chlorophenyl phenyl ether	50.00	28.35	56.7	50 - 110
Chrysene	50.00	32.62	65.2	55 - 110
Dibenz(a,h)anthracene	50.00	32.75	65.5	40 - 125
Dibenzofuran	**50.00**	**25.13**	**50.3**	**55 - 105**
Di-n-butylphthalate	50.00	35.48	71.0	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G31012	Laboratory ID:	2G31012-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	27.27	54.5	20 - 110
2,4-Dichlorophenol	100.0	59.40	59.4	40 - 110
Diethylphthalate	50.00	32.50	65.0	40 - 120
2,4-Dimethylphenol	100.0	59.61	59.6	30 - 110
Dimethyl phthalate	50.00	31.56	63.1	25 - 125
4,6-Dinitro-2-methylphenol	100.0	69.42	69.4	40 - 130
2,4-Dinitrophenol	100.0	62.71	62.7	15 - 140
2,4-Dinitrotoluene	50.00	30.77	61.5	50 - 120
2,6-Dinitrotoluene	50.00	29.24	58.5	50 - 115
Di-n-octylphthalate	50.00	35.46	70.9	35 - 135
1,2-Diphenylhydrazine	50.00	35.86	71.7	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	35.20	70.4	40 - 125
Fluoranthene	50.00	33.24	66.5	55 - 115
Fluorene	50.00	28.36	56.7	50 - 110
Hexachlorobenzene	50.00	29.81	59.6	50 - 110
Hexachlorobutadiene	50.00	13.65	27.3	25 - 105
Hexachlorocyclopentadiene	50.00	12.78	25.6	10 - 110
Hexachloroethane	50.00	15.45	30.9	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	32.73	65.5	45 - 125
Isophorone	**50.00**	**24.41**	**48.8**	**50 - 110**
1-Methylnaphthalene	50.00	24.61	49.2	30 - 115
2-Methylnaphthalene	**50.00**	**20.75**	**41.5**	**45 - 105**
2-Methylphenol	100.0	47.69	47.7	40 - 110
3-Methylphenol/4-Methylphenol	100.0	44.90	44.9	30 - 110
Naphthalene	50.00	21.80	43.6	40 - 100
4-Nitroaniline	50.00	36.07	72.1	35 - 120
3-Nitroaniline	50.00	33.68	67.4	20 - 125
2-Nitroaniline	50.00	39.89	79.8	50 - 115
Nitrobenzene	50.00	24.42	48.8	30 - 110
4-Nitrophenol	100.0	19.56	19.6	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G31012	Laboratory ID:	2G31012-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	62.97	63.0	40 - 115
N-Nitrosodiphenylamine	50.00	26.84	53.7	50 - 110
N-Nitroso-di-n-propylamine	50.00	32.55	65.1	35 - 130
Pentachlorophenol	100.0	64.81	64.8	40 - 115
Phenanthrene	50.00	33.07	66.1	50 - 115
Phenol	100.0	18.07	18.1	0 - 115
Pyrene	50.00	34.75	69.5	50 - 130
2,4,6-Trichlorophenol	100.0	65.01	65.0	50 - 115
2,4,5-Trichlorophenol	100.0	66.07	66.1	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	28.97	57.9	15.9	30	45 - 110
Acenaphthylene	50.00	30.64	61.3	13.9	30	50 - 105
Acetophenone	50.00	33.84	67.7	0.444	30	50 - 110
Anthracene	50.00	34.19	68.4	2.33	30	55 - 110
Atrazine	50.00	35.55	71.1	8.57	30	70 - 115
Benzaldehyde	50.00	29.58	59.2	3.07	30	10 - 180
Benzidine	50.00	13.08	26.2	64.1 *	30	0 - 200
Benzo(a)anthracene	50.00	34.59	69.2	6.29	30	55 - 110
Benzo(a)pyrene	50.00	34.43	68.9	5.38	30	55 - 110
Benzo(b)fluoranthene	50.00	34.26	68.5	8.22	30	45 - 120
Benzo(g,h,i)perylene	50.00	35.27	70.5	5.24	30	40 - 125
Benzoic acid	100.0	14.13	14.1	6.89	30	0 - 125
Benzo(k)fluoranthene	50.00	37.67	75.3	4.41	30	45 - 125
1,1-Biphenyl	50.00	36.42	72.8	10.7	30	50 - 110
4-Bromophenyl-phenylether	50.00	31.22	62.4	3.00	30	50 - 115
Butylbenzylphthalate	50.00	40.91	81.8	9.98	30	45 - 115
Caprolactam	50.00	5.425	10.9	7.17	30	10 - 110
Carbazole	50.00	43.14	86.3	7.17	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G31012	Laboratory ID:	2G31012-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	62.84	62.8	2.52	30	45 - 110
4-Chloroaniline	50.00	34.84	69.7	5.89	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	27.41	54.8	2.78	30	45 - 105
Bis(2-chloroethyl)ether	50.00	25.91	51.8	0.0108	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	32.86	65.7	1.67	30	25 - 130
2-Chloronaphthalene	50.00	25.98	52.0	21.9	30	50 - 105
2-Chlorophenol	100.0	58.34	58.3	2.09	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	30.54	61.1	7.44	30	50 - 110
Chrysene	50.00	35.66	71.3	8.90	30	55 - 110
Dibenz(a,h)anthracene	50.00	34.93	69.9	6.44	30	40 - 125
Dibenzofuran	50.00	29.89	59.8	17.3	30	55 - 105
Di-n-butylphthalate	50.00	39.34	78.7	10.3	30	55 - 115
3,3'-Dichlorobenzidine	50.00	30.50	61.0	11.2	30	20 - 110
2,4-Dichlorophenol	100.0	62.05	62.0	4.36	30	40 - 110
Diethylphthalate	50.00	36.21	72.4	10.8	30	40 - 120
2,4-Dimethylphenol	100.0	59.10	59.1	0.867	30	30 - 110
Dimethyl phthalate	50.00	34.83	69.7	9.84	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	73.67	73.7	5.95	30	40 - 130
2,4-Dinitrophenol	100.0	66.84	66.8	6.37	30	15 - 140
2,4-Dinitrotoluene	50.00	34.62	69.2	11.8	30	50 - 120
2,6-Dinitrotoluene	50.00	31.24	62.5	6.64	30	50 - 115
Di-n-octylphthalate	50.00	38.58	77.2	8.43	30	35 - 135
1,2-Diphenylhydrazine	50.00	37.54	75.1	4.58	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	37.49	75.0	6.29	30	40 - 125
Fluoranthene	50.00	35.05	70.1	5.32	30	55 - 115
Fluorene	50.00	31.45	62.9	10.3	30	50 - 110
Hexachlorobenzene	50.00	30.95	61.9	3.74	30	50 - 110
Hexachlorobutadiene	50.00	15.77	31.5	14.4	30	25 - 105
Hexachlorocyclopentadiene	50.00	16.33	32.7	24.4	30	10 - 110
Hexachloroethane	50.00	15.72	31.4	1.72	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2G31012	Laboratory ID:	2G31012-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	50.00	35.27	70.5	7.46	30	45 - 125
Isophorone	50.00	25.86	51.7	5.75	30	50 - 110
1-Methylnaphthalene	50.00	27.00	54.0	9.24	30	30 - 115
2-Methylnaphthalene	50.00	23.21	46.4	11.2	30	45 - 105
2-Methylphenol	100.0	46.46	46.5	2.60	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	41.38	41.4	8.17	30	30 - 110
Naphthalene	50.00	23.97	47.9	9.48	30	40 - 100
4-Nitroaniline	50.00	41.38	82.8	13.7	30	35 - 120
3-Nitroaniline	50.00	38.66	77.3	13.8	30	20 - 125
2-Nitroaniline	50.00	43.57	87.1	8.82	30	50 - 115
Nitrobenzene	50.00	26.13	52.3	6.74	30	30 - 110
4-Nitrophenol	100.0	20.54	20.5	4.91	30	0 - 125
2-Nitrophenol	100.0	67.94	67.9	7.59	30	40 - 115
N-Nitrosodiphenylamine	50.00	28.44	56.9	5.78	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	31.93	63.9	1.94	30	35 - 130
Pentachlorophenol	100.0	68.99	69.0	6.24	30	40 - 115
Phenanthrene	50.00	34.96	69.9	5.55	30	50 - 115
Phenol	100.0	16.73	16.7	7.71	30	0 - 115
Pyrene	50.00	36.61	73.2	5.20	30	50 - 130
2,4,6-Trichlorophenol	100.0	71.70	71.7	9.79	30	50 - 115
2,4,5-Trichlorophenol	100.0	75.11	75.1	12.8	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03006	Laboratory ID:	2H03006-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	31.14	62.3	45 - 110
Acenaphthylene	50.00	32.71	65.4	50 - 105
Acetophenone	50.00	38.34	76.7	50 - 110
Anthracene	50.00	35.53	71.1	55 - 110
Atrazine	**50.00**	**33.92**	**67.8**	**70 - 115**
Benzaldehyde	50.00	35.64	71.3	10 - 180
Benzidine	50.00	13.73	27.5	0 - 200
Benzo(a)anthracene	50.00	33.95	67.9	55 - 110
Benzo(a)pyrene	50.00	35.36	70.7	55 - 110
Benzo(b)fluoranthene	50.00	37.40	74.8	45 - 120
Benzo(g,h,i)perylene	50.00	36.33	72.7	40 - 125
Benzoic acid	100.0	14.55	14.6	0 - 125
Benzo(k)fluoranthene	50.00	36.10	72.2	45 - 125
1,1-Biphenyl	50.00	37.95	75.9	50 - 110
4-Bromophenyl-phenylether	50.00	31.99	64.0	50 - 115
Butylbenzylphthalate	50.00	42.19	84.4	45 - 115
Caprolactam	50.00	5.873	11.7	10 - 110
Carbazole	50.00	44.40	88.8	50 - 115
4-Chloro-3-methylphenol	100.0	64.63	64.6	45 - 110
4-Chloroaniline	50.00	36.89	73.8	15 - 110
Bis(2-chloroethoxy)methane	50.00	35.59	71.2	45 - 105
Bis(2-chloroethyl)ether	50.00	31.48	63.0	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	42.99	86.0	25 - 130
2-Chloronaphthalene	50.00	30.62	61.2	50 - 105
2-Chlorophenol	100.0	62.88	62.9	35 - 105
4-Chlorophenyl phenyl ether	50.00	32.04	64.1	50 - 110
Chrysene	50.00	35.57	71.1	55 - 110
Dibenz(a,h)anthracene	50.00	35.32	70.6	40 - 125
Dibenzofuran	50.00	32.05	64.1	55 - 105
Di-n-butylphthalate	50.00	38.05	76.1	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03006	Laboratory ID:	2H03006-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	31.38	62.8	20 - 110
2,4-Dichlorophenol	100.0	65.27	65.3	40 - 110
Diethylphthalate	50.00	34.27	68.5	40 - 120
2,4-Dimethylphenol	100.0	69.08	69.1	30 - 110
Dimethyl phthalate	50.00	32.86	65.7	25 - 125
4,6-Dinitro-2-methylphenol	100.0	65.35	65.4	40 - 130
2,4-Dinitrophenol	100.0	52.09	52.1	15 - 140
2,4-Dinitrotoluene	50.00	32.39	64.8	50 - 120
2,6-Dinitrotoluene	50.00	30.05	60.1	50 - 115
Di-n-octylphthalate	50.00	40.08	80.2	35 - 135
1,2-Diphenylhydrazine	50.00	43.39	86.8	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	39.00	78.0	40 - 125
Fluoranthene	50.00	35.34	70.7	55 - 115
Fluorene	50.00	34.01	68.0	50 - 110
Hexachlorobenzene	50.00	30.27	60.5	50 - 110
Hexachlorobutadiene	50.00	22.40	44.8	25 - 105
Hexachlorocyclopentadiene	50.00	22.21	44.4	10 - 110
Hexachloroethane	50.00	24.13	48.3	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	36.23	72.5	45 - 125
Isophorone	50.00	30.31	60.6	50 - 110
1-Methylnaphthalene	50.00	36.29	72.6	30 - 115
2-Methylnaphthalene	50.00	28.81	57.6	45 - 105
2-Methylphenol	100.0	52.87	52.9	40 - 110
3-Methylphenol/4-Methylphenol	100.0	46.71	46.7	30 - 110
Naphthalene	50.00	31.75	63.5	40 - 100
4-Nitroaniline	50.00	38.26	76.5	35 - 120
3-Nitroaniline	50.00	35.84	71.7	20 - 125
2-Nitroaniline	50.00	44.77	89.5	50 - 115
Nitrobenzene	50.00	30.60	61.2	30 - 110
4-Nitrophenol	100.0	19.51	19.5	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03006	Laboratory ID:	2H03006-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	70.79	70.8	40 - 115
N-Nitrosodiphenylamine	50.00	29.56	59.1	50 - 110
N-Nitroso-di-n-propylamine	50.00	37.22	74.4	35 - 130
Pentachlorophenol	100.0	59.78	59.8	40 - 115
Phenanthrene	50.00	35.85	71.7	50 - 115
Phenol	100.0	20.87	20.9	0 - 115
Pyrene	50.00	36.83	73.7	50 - 130
2,4,6-Trichlorophenol	100.0	68.36	68.4	50 - 115
2,4,5-Trichlorophenol	100.0	70.81	70.8	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	32.68	65.4	4.84	30	45 - 110
Acenaphthylene	50.00	34.39	68.8	5.01	30	50 - 105
Acetophenone	50.00	36.38	72.8	5.26	30	50 - 110
Anthracene	50.00	37.49	75.0	5.38	30	55 - 110
Atrazine	50.00	38.86	77.7	13.6	30	70 - 115
Benzaldehyde	50.00	34.09	68.2	4.45	30	10 - 180
Benzidine	50.00	14.04	28.1	2.24	30	0 - 200
Benzo(a)anthracene	50.00	37.12	74.2	8.93	30	55 - 110
Benzo(a)pyrene	50.00	37.64	75.3	6.25	30	55 - 110
Benzo(b)fluoranthene	50.00	40.59	81.2	8.18	30	45 - 120
Benzo(g,h,i)perylene	50.00	38.85	77.7	6.70	30	40 - 125
Benzoic acid	100.0	13.97	14.0	4.12	30	0 - 125
Benzo(k)fluoranthene	50.00	38.06	76.1	5.26	30	45 - 125
1,1-Biphenyl	50.00	37.89	75.8	0.156	30	50 - 110
4-Bromophenyl-phenylether	50.00	35.55	71.1	10.5	30	50 - 115
Butylbenzylphthalate	50.00	44.97	89.9	6.37	30	45 - 115
Caprolactam	50.00	5.627	11.3	4.28	30	10 - 110
Carbazole	50.00	46.20	92.4	3.97	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03006	Laboratory ID:	2H03006-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	64.16	64.2	0.732	30	45 - 110
4-Chloroaniline	50.00	36.14	72.3	2.04	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	31.72	63.4	11.5	30	45 - 105
Bis(2-chloroethyl)ether	50.00	30.27	60.5	3.90	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	40.49	81.0	5.99	30	25 - 130
2-Chloronaphthalene	50.00	30.98	62.0	1.16	30	50 - 105
2-Chlorophenol	100.0	56.92	56.9	9.94	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	33.36	66.7	4.03	30	50 - 110
Chrysene	50.00	38.31	76.6	7.42	30	55 - 110
Dibenz(a,h)anthracene	50.00	37.06	74.1	4.81	30	40 - 125
Dibenzofuran	50.00	32.61	65.2	1.72	30	55 - 105
Di-n-butylphthalate	50.00	41.71	83.4	9.16	30	55 - 115
3,3'-Dichlorobenzidine	50.00	35.79	71.6	13.1	30	20 - 110
2,4-Dichlorophenol	100.0	64.35	64.3	1.43	30	40 - 110
Diethylphthalate	50.00	36.41	72.8	6.05	30	40 - 120
2,4-Dimethylphenol	100.0	62.99	63.0	9.22	30	30 - 110
Dimethyl phthalate	50.00	34.54	69.1	4.99	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	73.80	73.8	12.1	30	40 - 130
2,4-Dinitrophenol	100.0	61.85	61.9	17.1	30	15 - 140
2,4-Dinitrotoluene	50.00	35.20	70.4	8.31	30	50 - 120
2,6-Dinitrotoluene	50.00	32.38	64.8	7.45	30	50 - 115
Di-n-octylphthalate	50.00	43.96	87.9	9.23	30	35 - 135
1,2-Diphenylhydrazine	50.00	44.17	88.3	1.80	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	42.99	86.0	9.71	30	40 - 125
Fluoranthene	50.00	38.60	77.2	8.81	30	55 - 115
Fluorene	50.00	33.53	67.1	1.43	30	50 - 110
Hexachlorobenzene	50.00	32.93	65.9	8.44	30	50 - 110
Hexachlorobutadiene	50.00	20.79	41.6	7.47	30	25 - 105
Hexachlorocyclopentadiene	50.00	22.01	44.0	0.911	30	10 - 110
Hexachloroethane	50.00	23.56	47.1	2.39	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03006	Laboratory ID:	2H03006-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	37.60	75.2	3.71	30	45 - 125
Isophorone	50.00	29.75	59.5	1.87	30	50 - 110
1-Methylnaphthalene	50.00	34.09	68.2	6.26	30	30 - 115
2-Methylnaphthalene	50.00	27.95	55.9	3.02	30	45 - 105
2-Methylphenol	100.0	47.05	47.0	11.7	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	42.19	42.2	10.2	30	30 - 110
Naphthalene	50.00	31.36	62.7	1.23	30	40 - 100
4-Nitroaniline	50.00	41.79	83.6	8.83	30	35 - 120
3-Nitroaniline	50.00	36.53	73.1	1.90	30	20 - 125
2-Nitroaniline	50.00	47.69	95.4	6.31	30	50 - 115
Nitrobenzene	50.00	28.17	56.3	8.25	30	30 - 110
4-Nitrophenol	100.0	20.80	20.8	6.38	30	0 - 125
2-Nitrophenol	100.0	72.43	72.4	2.29	30	40 - 115
N-Nitrosodiphenylamine	50.00	31.88	63.8	7.54	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	36.05	72.1	3.19	30	35 - 130
Pentachlorophenol	100.0	69.76	69.8	15.4	30	40 - 115
Phenanthrene	50.00	39.01	78.0	8.42	30	50 - 115
Phenol	100.0	17.28	17.3	18.8	30	0 - 115
Pyrene	50.00	40.77	81.5	10.2	30	50 - 130
2,4,6-Trichlorophenol	100.0	71.20	71.2	4.07	30	50 - 115
2,4,5-Trichlorophenol	100.0	72.84	72.8	2.83	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2G31012 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/01/12 14:04	1,000.00	1.00
GW0678	1208005-03	08/01/12 14:04	1,000.00	1.00
GW0679	1208005-05	08/01/12 14:04	1,000.00	1.00
GW0680	1208005-07	08/01/12 14:04	1,000.00	1.00
GW0697	1208005-09	08/01/12 14:04	1,000.00	1.00
GW0698	1208005-11	08/01/12 14:04	950.00	1.00
GW0723	1208005-13	08/01/12 14:04	1,020.00	1.00
GW0724	1208005-15	08/01/12 14:04	1,000.00	1.00
GW0725	1208005-17	08/01/12 14:04	1,000.00	1.00
GW0726	1208005-19	08/01/12 14:04	1,000.00	1.00
Blank	2G31012-BLK1	08/01/12 14:04	1,000.00	1.00
LCS	2G31012-BS1	08/01/12 14:04	1,000.00	1.00
LCS Dup	2G31012-BSD1	08/01/12 14:04	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H03006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/03/12 13:15	1,020.00	1.00
GW0639	1208028-03	08/03/12 13:15	1,020.00	1.00
GW0649	1208028-05	08/03/12 13:15	1,040.00	1.00
GW0650	1208028-07	08/03/12 13:15	1,000.00	1.00
GW0662	1208028-09	08/03/12 13:15	1,040.00	1.00
GW0663	1208028-11	08/03/12 13:15	1,040.00	1.00
GW0677	1208028-13	08/03/12 13:15	1,000.00	1.00
GW0710	1208028-15	08/03/12 13:15	1,060.00	1.00
GW0710	1208028-15RE1	08/03/12 13:15	1,060.00	1.00
GW0711	1208028-17	08/03/12 13:15	1,060.00	1.00
GW0712	1208028-19	08/03/12 13:15	1,020.00	1.00
Blank	2H03006-BLK1	08/03/12 13:15	1,000.00	1.00
LCS	2H03006-BS1	08/03/12 13:15	1,000.00	1.00
LCS Dup	2H03006-BSD1	08/03/12 13:15	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/31/12
Instrument ID:	MS-BNA1	Injection Time:	17:57
Sequence:	2F15401	Lab Sample ID:	2F15401-TUN1

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	06/01/12
Instrument ID:	MS-BNA1	Injection Time:	16:21
Sequence:	2F15401	Lab Sample ID:	2F15401-TUN2

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/04/12
Instrument ID:	MS-BNA1	Injection Time:	13:05
Sequence:	2F15401	Lab Sample ID:	2F15401-TUN3

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/13/12
Instrument ID:	MS-BNA1	Injection Time:	14:12
Sequence:	2H22708	Lab Sample ID:	2H22708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	53	PASS
70	Less than 2% of 69	0.466	PASS
127	40 - 60% of 198	53	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.68	PASS
275	10 - 30% of 198	17.8	PASS
365	1 - 200% of 198	1.82	PASS
441	0.001 - 100% of 443	69.4	PASS
442	40 - 200% of 198	56.6	PASS
443	17 - 23% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/14/12
Instrument ID:	MS-BNA1	Injection Time:	14:09
Sequence:	2H22908	Lab Sample ID:	2H22908-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.7	PASS
68	Less than 2% of 69	0.111	PASS
69	Less than 200% of 198	73.2	PASS
70	Less than 2% of 69	0.487	PASS
127	40 - 60% of 198	58.3	PASS
197	Less than 1% of 198	0.159	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.53	PASS
275	10 - 30% of 198	18.6	PASS
365	1 - 200% of 198	1.99	PASS
441	0.001 - 100% of 443	71	PASS
442	40 - 200% of 198	72.3	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	08/16/12
Instrument ID:	MS-BNA1	Injection Time:	12:43
Sequence:	2H23001	Lab Sample ID:	2H23001-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	56.3	PASS
68	Less than 2% of 69	1.01	PASS
69	Less than 200% of 198	75	PASS
70	Less than 2% of 69	1.01	PASS
127	40 - 60% of 198	58.9	PASS
197	Less than 1% of 198	0.108	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.17	PASS
275	10 - 30% of 198	16.6	PASS
365	1 - 200% of 198	2.02	PASS
441	0.001 - 100% of 443	83	PASS
442	40 - 200% of 198	67.5	PASS
443	17 - 23% of 442	17.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/17/12
Instrument ID:	MS-BNA1	Injection Time:	13:54
Sequence:	2H23305	Lab Sample ID:	2H23305-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	42.1	PASS
68	Less than 2% of 69	1.59	PASS
69	Less than 200% of 198	53.6	PASS
70	Less than 2% of 69	0.522	PASS
127	40 - 60% of 198	54.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.01	PASS
275	10 - 30% of 198	18	PASS
365	1 - 200% of 198	1.59	PASS
441	0.001 - 100% of 443	75.9	PASS
442	40 - 200% of 198	49.3	PASS
443	17 - 23% of 442	20.6	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2F15401	Instrument:	MS-BNA1
Calibration:	2156006		

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

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22708	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H22708-TUN1	SEQ-TUN1.D	08/13/12 14:12
Calibration Check	2H22708-CCV1	SEQ-CCV1.D	08/13/12 14:35
Calibration Check	2H22708-CCV2	SEQ-CCV2.D	08/13/12 15:05
Blank	2G31012-BLK1	G31012B1.D	08/13/12 15:33
LCS	2G31012-BS1	G31012L1.D	08/13/12 16:00
LCS Dup	2G31012-BSD1	G31012L2.D	08/13/12 16:28
GW0661	1208005-01	0800501.D	08/14/12 00:38
GW0678	1208005-03	0800503.D	08/14/12 01:05
GW0679	1208005-05	0800505.D	08/14/12 01:32
GW0680	1208005-07	0800507.D	08/14/12 01:59

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22908	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H22908-TUN1	SEQ-TUN1.D	08/14/12 14:09
Calibration Check	2H22908-CCV1	SEQ-CCV1.D	08/14/12 14:32
Calibration Check	2H22908-CCV2	SEQ-CCV2.D	08/14/12 15:00
GW0697	1208005-09	0800509.D	08/14/12 18:38
GW0698	1208005-11	0800511.D	08/14/12 19:05
GW0723	1208005-13	0800513.D	08/14/12 19:32
GW0724	1208005-15	0800515.D	08/14/12 19:59
GW0725	1208005-17	0800517.D	08/14/12 20:26
GW0726	1208005-19	0800519.D	08/14/12 20:53

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H23001-TUN1	SEQ-TUN2.D	08/16/12 12:43
Calibration Check	2H23001-CCV1	SEQ-CCV1.D	08/16/12 13:06
Calibration Check	2H23001-CCV2	SEQ-CCV2.D	08/16/12 13:33
Blank	2H03006-BLK1	H03006B1.D	08/16/12 14:01
LCS	2H03006-BS1	H03006L1.D	08/16/12 14:28
LCS Dup	2H03006-BSD1	H03006L2.D	08/16/12 14:56
GW0631	1208028-01	0802801.D	08/16/12 16:47
GW0639	1208028-03	0802803.D	08/16/12 17:15
GW0649	1208028-05	0802805.D	08/16/12 17:42
GW0650	1208028-07	0802807.D	08/16/12 18:10
GW0662	1208028-09	0802809.D	08/16/12 18:37
GW0663	1208028-11	0802811.D	08/16/12 19:05
GW0677	1208028-13	0802813.D	08/16/12 19:32
GW0710	1208028-15	0802815.D	08/16/12 19:59
GW0711	1208028-17	0802817.D	08/16/12 20:27
GW0712	1208028-19	0802819.D	08/16/12 20:54

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23305	Instrument:	MS-BNA1
Calibration:	2156006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H23305-TUN1	SEQ-TUN1.D	08/17/12 13:54
Calibration Check	2H23305-CCV1	SEQ-CCV1.D	08/17/12 14:17
Calibration Check	2H23305-CCV2	SEQ-CCV2.D	08/17/12 14:46
GW0710	1208028-15RE1	0802815D.D	08/17/12 20:12

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22708	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H22708-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/13/12 14:35			
1,4-Dichlorobenzene-d4	569467	5.09	567077	5.575	100	50 - 200	-0.4850	+/-0.50	
Naphthalene-d8	2346659	6.791	2257819	7.266	104	50 - 200	-0.4750	+/-0.50	
Acenaphthene-d10	1084808	9.037	1041422	9.511	104	50 - 200	-0.4740	+/-0.50	
Phenanthrene-d10	1706131	10.829	1729504	11.304	99	50 - 200	-0.4750	+/-0.50	
Chrysene-d12	1495988	14.106	1493143	14.683	100	50 - 200	-0.5770	+/-0.50	
Perylene-d12	1262429	16.237	1350302	16.936	93	50 - 200	-0.6990	+/-0.50	
Calibration Check (2H22708-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/13/12 15:05			
1,4-Dichlorobenzene-d4	538797	5.09	569467	5.09	95	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2241223	6.794	2346659	6.791	96	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1034455	9.041	1084808	9.037	95	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1671576	10.823	1706131	10.829	98	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1452299	14.111	1495988	14.106	97	50 - 200	0.0050	+/-0.50	
Perylene-d12	1177560	16.239	1262429	16.237	93	50 - 200	0.0020	+/-0.50	
Blank (2G31012-BLK1)			Lab File ID: G31012B1.D			Analyzed: 08/13/12 15:33			
1,4-Dichlorobenzene-d4	604595	5.085	569467	5.09	106	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2571278	6.788	2346659	6.791	110	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1150499	9.042	1084808	9.037	106	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1897744	10.824	1706131	10.829	111	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1645209	14.11	1495988	14.106	110	50 - 200	0.0040	+/-0.50	
Perylene-d12	1405536	16.232	1262429	16.237	111	50 - 200	-0.0050	+/-0.50	
LCS (2G31012-BS1)			Lab File ID: G31012L1.D			Analyzed: 08/13/12 16:00			
1,4-Dichlorobenzene-d4	554107	5.092	569467	5.09	97	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2456130	6.79	2346659	6.791	105	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1098053	9.04	1084808	9.037	101	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1715254	10.824	1706131	10.829	101	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1506092	14.107	1495988	14.106	101	50 - 200	0.0010	+/-0.50	
Perylene-d12	1251121	16.232	1262429	16.237	99	50 - 200	-0.0050	+/-0.50	
LCS Dup (2G31012-BSD1)			Lab File ID: G31012L2.D			Analyzed: 08/13/12 16:28			
1,4-Dichlorobenzene-d4	571627	5.086	569467	5.09	100	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	2404012	6.789	2346659	6.791	102	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1038102	9.037	1084808	9.037	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1676660	10.824	1706131	10.829	98	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1460203	14.109	1495988	14.106	98	50 - 200	0.0030	+/-0.50	
Perylene-d12	1204115	16.232	1262429	16.237	95	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22708	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0661 (1208005-01)			Lab File ID: 0800501.D			Analyzed: 08/14/12 00:38			
1,4-Dichlorobenzene-d4	549030	5.09	569467	5.09	96	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2198090	6.785	2346659	6.791	94	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	983315	9.038	1084808	9.037	91	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1580524	10.826	1706131	10.829	93	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1305858	14.106	1495988	14.106	87	50 - 200	0.0000	+/-0.50	
Perylene-d12	1080652	16.237	1262429	16.237	86	50 - 200	0.0000	+/-0.50	
GW0678 (1208005-03)			Lab File ID: 0800503.D			Analyzed: 08/14/12 01:05			
1,4-Dichlorobenzene-d4	523627	5.09	569467	5.09	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2253714	6.794	2346659	6.791	96	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	982057	9.039	1084808	9.037	91	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	1548559	10.828	1706131	10.829	91	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1261415	14.102	1495988	14.106	84	50 - 200	-0.0040	+/-0.50	
Perylene-d12	1041348	16.237	1262429	16.237	82	50 - 200	0.0000	+/-0.50	
GW0679 (1208005-05)			Lab File ID: 0800505.D			Analyzed: 08/14/12 01:32			
1,4-Dichlorobenzene-d4	531205	5.092	569467	5.09	93	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2222793	6.785	2346659	6.791	95	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	975266	9.037	1084808	9.037	90	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1599871	10.828	1706131	10.829	94	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1319875	14.102	1495988	14.106	88	50 - 200	-0.0040	+/-0.50	
Perylene-d12	1110540	16.232	1262429	16.237	88	50 - 200	-0.0050	+/-0.50	
GW0680 (1208005-07)			Lab File ID: 0800507.D			Analyzed: 08/14/12 01:59			
1,4-Dichlorobenzene-d4	490625	5.094	569467	5.09	86	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2071259	6.787	2346659	6.791	88	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	902573	9.035	1084808	9.037	83	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1476766	10.823	1706131	10.829	87	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1193687	14.103	1495988	14.106	80	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1013241	16.231	1262429	16.237	80	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22908	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H22908-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/14/12 14:32			
1,4-Dichlorobenzene-d4	606755	5.084	567077	5.575	107	50 - 200	-0.4910	+/-0.50	
Naphthalene-d8	2463523	6.791	2257819	7.266	109	50 - 200	-0.4750	+/-0.50	
Acenaphthene-d10	1087301	9.043	1041422	9.511	104	50 - 200	-0.4680	+/-0.50	
Phenanthrene-d10	1720126	10.823	1729504	11.304	99	50 - 200	-0.4810	+/-0.50	
Chrysene-d12	1481202	14.107	1493143	14.683	99	50 - 200	-0.5760	+/-0.50	
Perylene-d12	1217817	16.239	1350302	16.936	90	50 - 200	-0.6970	+/-0.50	
Calibration Check (2H22908-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/14/12 15:00			
1,4-Dichlorobenzene-d4	515617	5.088	606755	5.084	85	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2097946	6.791	2463523	6.791	85	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	908850	9.038	1087301	9.043	84	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1520947	10.825	1720126	10.823	88	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1259202	14.106	1481202	14.107	85	50 - 200	-0.0010	+/-0.50	
Perylene-d12	986673	16.235	1217817	16.239	81	50 - 200	-0.0040	+/-0.50	
GW0697 (1208005-09)			Lab File ID: 0800509.D			Analyzed: 08/14/12 18:38			
1,4-Dichlorobenzene-d4	598800	5.088	606755	5.084	99	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2700266	6.785	2463523	6.791	110	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1151369	9.038	1087301	9.043	106	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1776465	10.827	1720126	10.823	103	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1429579	14.102	1481202	14.107	97	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1218419	16.226	1217817	16.239	100	50 - 200	-0.0130	+/-0.50	
GW0698 (1208005-11)			Lab File ID: 0800511.D			Analyzed: 08/14/12 19:05			
1,4-Dichlorobenzene-d4	561963	5.085	606755	5.084	93	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2294894	6.788	2463523	6.791	93	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1052445	9.035	1087301	9.043	97	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	1664553	10.823	1720126	10.823	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1323375	14.099	1481202	14.107	89	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1096510	16.227	1217817	16.239	90	50 - 200	-0.0120	+/-0.50	
GW0723 (1208005-13)			Lab File ID: 0800513.D			Analyzed: 08/14/12 19:32			
1,4-Dichlorobenzene-d4	536444	5.085	606755	5.084	88	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2187544	6.79	2463523	6.791	89	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	974627	9.03	1087301	9.043	90	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	1476388	10.821	1720126	10.823	86	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1238900	14.106	1481202	14.107	84	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1023432	16.231	1217817	16.239	84	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22908	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0724 (1208005-15)			Lab File ID: 0800515.D			Analyzed: 08/14/12 19:59			
1,4-Dichlorobenzene-d4	583182	5.089	606755	5.084	96	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	2497049	6.789	2463523	6.791	101	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1037495	9.034	1087301	9.043	95	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1621046	10.821	1720126	10.823	94	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1370673	14.099	1481202	14.107	93	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1113712	16.229	1217817	16.239	91	50 - 200	-0.0100	+/-0.50	
GW0725 (1208005-17)			Lab File ID: 0800517.D			Analyzed: 08/14/12 20:26			
1,4-Dichlorobenzene-d4	549675	5.086	606755	5.084	91	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2274305	6.782	2463523	6.791	92	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	982501	9.037	1087301	9.043	90	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1531945	10.824	1720126	10.823	89	50 - 200	0.0010	+/-0.50	
Chrysene-d12	1281912	14.103	1481202	14.107	87	50 - 200	-0.0040	+/-0.50	
Perylene-d12	1060450	16.225	1217817	16.239	87	50 - 200	-0.0140	+/-0.50	
GW0726 (1208005-19)			Lab File ID: 0800519.D			Analyzed: 08/14/12 20:53			
1,4-Dichlorobenzene-d4	622011	5.087	606755	5.084	103	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2521970	6.789	2463523	6.791	102	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1133644	9.029	1087301	9.043	104	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	1801994	10.82	1720126	10.823	105	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1481475	14.107	1481202	14.107	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	1220378	16.229	1217817	16.239	100	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H23001-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/16/12 13:06			
1,4-Dichlorobenzene-d4	558113	5.079	567077	5.575	98	50 - 200	-0.4960	+/-0.50	
Naphthalene-d8	2335347	6.784	2257819	7.266	103	50 - 200	-0.4820	+/-0.50	
Acenaphthene-d10	1031607	9.035	1041422	9.511	99	50 - 200	-0.4760	+/-0.50	
Phenanthrene-d10	1591692	10.821	1729504	11.304	92	50 - 200	-0.4830	+/-0.50	
Chrysene-d12	1335918	14.11	1493143	14.683	89	50 - 200	-0.5730	+/-0.50	
Perylene-d12	1070680	16.23	1350302	16.936	79	50 - 200	-0.7060	+/-0.50	
Calibration Check (2H23001-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/16/12 13:33			
1,4-Dichlorobenzene-d4	501648	5.088	558113	5.079	90	50 - 200	0.0090	+/-0.50	
Naphthalene-d8	2058972	6.782	2335347	6.784	88	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	913408	9.031	1031607	9.035	89	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1399537	10.82	1591692	10.821	88	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1195708	14.104	1335918	14.11	90	50 - 200	-0.0060	+/-0.50	
Perylene-d12	903971	16.229	1070680	16.23	84	50 - 200	-0.0010	+/-0.50	
Blank (2H03006-BLK1)			Lab File ID: H03006B1.D			Analyzed: 08/16/12 14:01			
1,4-Dichlorobenzene-d4	542350	5.081	558113	5.079	97	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2253789	6.782	2335347	6.784	97	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	917261	9.033	1031607	9.035	89	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1509492	10.821	1591692	10.821	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1190146	14.101	1335918	14.11	89	50 - 200	-0.0090	+/-0.50	
Perylene-d12	984584	16.233	1070680	16.23	92	50 - 200	0.0030	+/-0.50	
LCS (2H03006-BS1)			Lab File ID: H03006L1.D			Analyzed: 08/16/12 14:28			
1,4-Dichlorobenzene-d4	455580	5.081	558113	5.079	82	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	1861128	6.788	2335347	6.784	80	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	842948	9.034	1031607	9.035	82	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1280994	10.819	1591692	10.821	80	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1069835	14.104	1335918	14.11	80	50 - 200	-0.0060	+/-0.50	
Perylene-d12	837273	16.233	1070680	16.23	78	50 - 200	0.0030	+/-0.50	
LCS Dup (2H03006-BSD1)			Lab File ID: H03006L2.D			Analyzed: 08/16/12 14:56			
1,4-Dichlorobenzene-d4	528933	5.083	558113	5.079	95	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2168086	6.791	2335347	6.784	93	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	976505	9.036	1031607	9.035	95	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1469038	10.823	1591692	10.821	92	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1221415	14.104	1335918	14.11	91	50 - 200	-0.0060	+/-0.50	
Perylene-d12	983127	16.235	1070680	16.23	92	50 - 200	0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0631 (1208028-01)			Lab File ID: 0802801.D			Analyzed: 08/16/12 16:47			
1,4-Dichlorobenzene-d4	526030	5.092	558113	5.079	94	50 - 200	0.0130	+/-0.50	
Naphthalene-d8	2081539	6.784	2335347	6.784	89	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	920487	9.034	1031607	9.035	89	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1421091	10.82	1591692	10.821	89	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1117186	14.105	1335918	14.11	84	50 - 200	-0.0050	+/-0.50	
Perylene-d12	932934	16.234	1070680	16.23	87	50 - 200	0.0040	+/-0.50	
GW0639 (1208028-03)			Lab File ID: 0802803.D			Analyzed: 08/16/12 17:15			
1,4-Dichlorobenzene-d4	532235	5.088	558113	5.079	95	50 - 200	0.0090	+/-0.50	
Naphthalene-d8	2246855	6.791	2335347	6.784	96	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	1009821	9.041	1031607	9.035	98	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	1534140	10.821	1591692	10.821	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1224767	14.103	1335918	14.11	92	50 - 200	-0.0070	+/-0.50	
Perylene-d12	995412	16.229	1070680	16.23	93	50 - 200	-0.0010	+/-0.50	
GW0649 (1208028-05)			Lab File ID: 0802805.D			Analyzed: 08/16/12 17:42			
1,4-Dichlorobenzene-d4	508047	5.091	558113	5.079	91	50 - 200	0.0120	+/-0.50	
Naphthalene-d8	2097145	6.788	2335347	6.784	90	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	918283	9.039	1031607	9.035	89	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1444873	10.827	1591692	10.821	91	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1130539	14.103	1335918	14.11	85	50 - 200	-0.0070	+/-0.50	
Perylene-d12	919118	16.237	1070680	16.23	86	50 - 200	0.0070	+/-0.50	
GW0650 (1208028-07)			Lab File ID: 0802807.D			Analyzed: 08/16/12 18:10			
1,4-Dichlorobenzene-d4	491339	5.092	558113	5.079	88	50 - 200	0.0130	+/-0.50	
Naphthalene-d8	2092231	6.787	2335347	6.784	90	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	863249	9.033	1031607	9.035	84	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1354658	10.825	1591692	10.821	85	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1084509	14.106	1335918	14.11	81	50 - 200	-0.0040	+/-0.50	
Perylene-d12	881705	16.238	1070680	16.23	82	50 - 200	0.0080	+/-0.50	
GW0662 (1208028-09)			Lab File ID: 0802809.D			Analyzed: 08/16/12 18:37			
1,4-Dichlorobenzene-d4	505292	5.084	558113	5.079	91	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	2063414	6.788	2335347	6.784	88	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	882210	9.04	1031607	9.035	86	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1399459	10.826	1591692	10.821	88	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1117171	14.104	1335918	14.11	84	50 - 200	-0.0060	+/-0.50	
Perylene-d12	915590	16.23	1070680	16.23	86	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23001	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0663 (1208028-11)			Lab File ID: 0802811.D			Analyzed: 08/16/12 19:05			
1,4-Dichlorobenzene-d4	521136	5.089	558113	5.079	93	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	2132526	6.783	2335347	6.784	91	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	912998	9.032	1031607	9.035	89	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1438630	10.819	1591692	10.821	90	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1123888	14.105	1335918	14.11	84	50 - 200	-0.0050	+/-0.50	
Perylene-d12	901573	16.229	1070680	16.23	84	50 - 200	-0.0010	+/-0.50	
GW0677 (1208028-13)			Lab File ID: 0802813.D			Analyzed: 08/16/12 19:32			
1,4-Dichlorobenzene-d4	534861	5.091	558113	5.079	96	50 - 200	0.0120	+/-0.50	
Naphthalene-d8	2245972	6.784	2335347	6.784	96	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	960581	9.032	1031607	9.035	93	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1533492	10.826	1591692	10.821	96	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1230359	14.105	1335918	14.11	92	50 - 200	-0.0050	+/-0.50	
Perylene-d12	967031	16.238	1070680	16.23	90	50 - 200	0.0080	+/-0.50	
GW0710 (1208028-15)			Lab File ID: 0802815.D			Analyzed: 08/16/12 19:59			
1,4-Dichlorobenzene-d4	520373	5.093	558113	5.079	93	50 - 200	0.0140	+/-0.50	
Naphthalene-d8	2255330	6.801	2335347	6.784	97	50 - 200	0.0170	+/-0.50	
Acenaphthene-d10	1122212	9.042	1031607	9.035	109	50 - 200	0.0070	+/-0.50	
Phenanthrene-d10	1505134	10.825	1591692	10.821	95	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1175359	14.102	1335918	14.11	88	50 - 200	-0.0080	+/-0.50	
Perylene-d12	960821	16.233	1070680	16.23	90	50 - 200	0.0030	+/-0.50	
GW0711 (1208028-17)			Lab File ID: 0802817.D			Analyzed: 08/16/12 20:27			
1,4-Dichlorobenzene-d4	593648	5.086	558113	5.079	106	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	2756815	6.799	2335347	6.784	118	50 - 200	0.0150	+/-0.50	
Acenaphthene-d10	1210889	9.042	1031607	9.035	117	50 - 200	0.0070	+/-0.50	
Phenanthrene-d10	1671913	10.825	1591692	10.821	105	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1331601	14.11	1335918	14.11	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	1099807	16.232	1070680	16.23	103	50 - 200	0.0020	+/-0.50	
GW0712 (1208028-19)			Lab File ID: 0802819.D			Analyzed: 08/16/12 20:54			
1,4-Dichlorobenzene-d4	500861	5.089	558113	5.079	90	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	2078439	6.782	2335347	6.784	89	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	929479	9.031	1031607	9.035	90	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1419039	10.824	1591692	10.821	89	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1153785	14.103	1335918	14.11	86	50 - 200	-0.0070	+/-0.50	
Perylene-d12	931422	16.232	1070680	16.23	87	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23305	Instrument:	MS-BNA1
		Calibration:	2156006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H23305-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/17/12 14:17			
1,4-Dichlorobenzene-d4	525380	5.083	567077	5.575	93	50 - 200	-0.4920	+/-0.50	
Naphthalene-d8	2114052	6.788	2257819	7.266	94	50 - 200	-0.4780	+/-0.50	
Acenaphthene-d10	937456	9.028	1041422	9.511	90	50 - 200	-0.4830	+/-0.50	
Phenanthrene-d10	1480019	10.816	1729504	11.304	86	50 - 200	-0.4880	+/-0.50	
Chrysene-d12	1193985	14.101	1493143	14.683	80	50 - 200	-0.5820	+/-0.50	
Perylene-d12	952439	16.226	1350302	16.936	71	50 - 200	-0.7100	+/-0.50	
Calibration Check (2H23305-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/17/12 14:46			
1,4-Dichlorobenzene-d4	504434	5.082	525380	5.083	96	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2074393	6.786	2114052	6.788	98	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	879011	9.027	937456	9.028	94	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1451149	10.816	1480019	10.816	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1162612	14.097	1193985	14.101	97	50 - 200	-0.0040	+/-0.50	
Perylene-d12	883432	16.223	952439	16.226	93	50 - 200	-0.0030	+/-0.50	
GW0710 (1208028-15RE1)			Lab File ID: 0802815D.D			Analyzed: 08/17/12 20:12			
1,4-Dichlorobenzene-d4	572784	5.077	525380	5.083	109	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2419372	6.78	2114052	6.788	114	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1003366	9.035	937456	9.028	107	50 - 200	0.0070	+/-0.50	
Phenanthrene-d10	1535310	10.813	1480019	10.816	104	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1210953	14.094	1193985	14.101	101	50 - 200	-0.0070	+/-0.50	
Perylene-d12	1084966	16.227	952439	16.226	114	50 - 200	0.0010	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.126373	10	1.126661	20	1.136371	40	1.207778	50	1.183683	60	1.180749
Acenaphthylene	5	1.810842	10	1.826999	20	1.946601	40	1.95698	50	1.93577	60	1.957812
Acetophenone												
Aniline	5	2.461105	10	2.59521	20	2.791143	40	2.610428	50	2.69129	60	2.589195
Anthracene	5	1.014193	10	1.004991	20	1.0912	40	1.07423	50	1.02393	60	1.072449
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.023662	10	1.064105	20	1.135045	40	1.146272	50	1.143449	60	1.173419
Benzo(a)pyrene	5	0.9256968	10	1.009923	20	1.044091	40	1.053488	50	1.090938	60	1.062997
Benzo(b)fluoranthene	5	1.049749	10	1.119984	20	1.110806	40	1.136291	50	1.228656	60	1.099329
Benzo(g,h,i)perylene	5	0.8228635	10	0.9017828	20	0.9584962	40	0.9613374	50	0.9745618	60	0.9591791
Benzoic acid	5	~~8.240963E-02~~	10	~~0.1021864~~	20	0.1472441	40	0.1907186	50	0.2085996	60	0.2242009
Benzo(k)fluoranthene	5	1.062616	10	1.151443	20	1.247663	40	1.19235	50	1.198395	60	1.276877
Benzyl alcohol	5	0.9754856	10	0.9854316	20	1.03627	40	1.043161	50	1.014095	60	1.001162
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.1781673	10	0.1784268	20	0.1945771	40	0.1931838	50	0.1904274	60	0.1941092
Butylbenzylphthalate	5	0.540657	10	0.5849321	20	0.6844322	40	0.6688168	50	0.7151465	60	0.7108238
Caprolactam												
Carbazole	5	1.013438	10	0.9751917	20	1.063112	40	1.032205	50	1.009288	60	1.016735
4-Chloro-3-methylphenol	5	0.2681562	10	0.2746706	20	0.3034465	40	0.3014856	50	0.3057008	60	0.295067
4-Chloroaniline	5	0.4179676	10	0.4118575	20	0.4561695	40	0.4481711	50	0.4411264	60	0.4383111
Bis(2-chloroethoxy)methane	5	0.5149505	10	0.5117899	20	0.5567584	40	0.5304999	50	0.5252526	60	0.5183715
Bis(2-chloroethyl)ether	5	1.79464	10	1.92201	20	1.933689	40	1.82667	50	1.849083	60	1.801492
2,2'-Oxybis-1-chloropropane	5	2.363796	10	2.476656	20	2.412512	40	2.300807	50	2.318796	60	2.222365
2-Chloronaphthalene	5	1.13273	10	1.117619	20	1.175043	40	1.176633	50	1.145012	60	1.229649
2-Chlorophenol	5	1.392984	10	1.416555	20	1.534166	40	1.524408	50	1.506707	60	1.496356
4-Chlorophenyl phenyl ether	5	0.5904094	10	0.5813123	20	0.5912155	40	0.578043	50	0.5830776	60	0.5832737
Chrysene	5	1.046865	10	1.023335	20	1.081624	40	1.06487	50	1.081586	60	1.04815
Dibenz(a,h)anthracene	5	0.7885676	10	0.9019827	20	0.9510476	40	0.9365455	50	0.9787881	60	0.9711654
Dibenzofuran	5	1.526746	10	1.532649	20	1.563857	40	1.629439	50	1.595734	60	1.561346

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.305877	10	1.277559	20	1.478226	40	1.504704	50	1.450457	60	1.566813
1,4-Dichlorobenzene	5	1.408334	10	1.40895	20	1.512679	40	1.46844	50	1.495222	60	1.444385
1,3-Dichlorobenzene	5	1.376031	10	1.431382	20	1.502069	40	1.43419	50	1.465406	60	1.413851
1,2-Dichlorobenzene	5	1.336277	10	1.327384	20	1.422078	40	1.364305	50	1.383533	60	1.348974
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2154991	10	0.223946	20	0.2462342	40	0.2558014	50	0.2492882	60	0.2506124
Diethylphthalate	5	1.270876	10	1.320807	20	1.381461	40	1.377271	50	1.385767	60	1.415821
2,4-Dimethylphenol	5	0.346181	10	0.3487812	20	0.3705044	40	0.3578533	50	0.3502636	60	0.3508821
Dimethyl phthalate	5	1.283415	10	1.306138	20	1.340225	40	1.37046	50	1.306569	60	1.358887
4,6-Dinitro-2-methylphenol	5	~~8.258835E-02~~	10	9.743835E-02	20	0.1195989	40	0.1417304	50	0.1474593	60	0.1594134
2,4-Dinitrophenol	5	~~0.1057435~~	10	0.1257444	20	0.1586353	40	0.1914349	50	0.2020648	60	0.2157894
2,4-Dinitrotoluene	5	0.3259939	10	0.370293	20	0.3950459	40	0.4356606	50	0.4180124	60	0.4246641
2,6-Dinitrotoluene	5	0.2872698	10	0.2920352	20	0.3201515	40	0.3141573	50	0.3178789	60	0.3327001
Di-n-octylphthalate	5	1.13257	10	1.356646	20	1.581187	40	1.78149	50	1.89801	60	1.912101
1,4-Dioxane												
1,2-Diphenylhydrazine	5	1.190229	10	1.219457	20	1.302156	40	1.200231	50	1.172083	60	1.253691
Bis(2-ethylhexyl)phthalate	5	0.7668985	10	0.8121303	20	0.9357354	40	0.9596238	50	0.9817301	60	0.976526
Fluoranthene	5	1.062951	10	1.074676	20	1.198513	40	1.177869	50	1.103442	60	1.103923
Fluorene	5	1.223545	10	1.234006	20	1.271113	40	1.239998	50	1.213156	60	1.229349
2-Fluorobiphenyl	5	1.240671	10	1.280891	20	1.29841	40	1.294668	50	1.297831	60	1.364536
2-Fluorophenol	10	1.425017	20	1.467693	40	1.586937	80	1.540058	100	1.517234	120	1.490853
Hexachlorobenzene	5	0.2033176	10	0.1971483	20	0.2152024	40	0.2116395	50	0.2081886	60	0.2112997
Hexachlorobutadiene	5	0.1370517	10	0.1355859	20	0.1482413	40	0.1409609	50	0.141565	60	0.1404629
Hexachlorocyclopentadiene	5	0.2927981	10	0.3220645	20	0.3316502	40	0.340652	50	0.3455415	60	0.370985
Hexachloroethane	5	0.7054781	10	0.6586897	20	0.7333452	40	0.6590675	50	0.6797874	60	0.665835
Indeno(1,2,3-cd)pyrene	5	0.9780185	10	1.036435	20	1.131378	40	1.125406	50	1.155951	60	1.143272
Isophorone	5	0.8400887	10	0.8101089	20	0.8968455	40	0.8736712	50	0.8802044	60	0.8739238
1-Methylnaphthalene	5	0.4867605	10	0.4715883	20	0.5151534	40	0.5068099	50	0.4944881	60	0.4903482
2-Methylnaphthalene	5	0.4979257	10	0.4933083	20	0.5283806	40	0.5154121	50	0.5210468	60	0.5090314
2-Methylphenol	5	1.360867	10	1.390202	20	1.449519	40	1.444984	50	1.436217	60	1.358288

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.340828	10	1.421969	20	1.555837	40	1.455048	50	1.481826	60	1.43736
4-Methylphenol	5	1.340828	10	1.421969	20	1.555837	40	1.455048	50	1.481826	60	1.43736
3-Methylphenol/4-Methylphenol	5	1.340828	10	1.421969	20	1.555837	40	1.455048	50	1.481826	60	1.43736
Naphthalene	5	1.04581	10	1.008543	20	1.131666	40	1.05418	50	1.066415	60	1.061675
4-Nitroaniline	5	0.3425526	10	0.3790494	20	0.4144153	40	0.4387588	50	0.4386155	60	0.4528719
3-Nitroaniline	5	0.3778062	10	0.4018527	20	0.427857	40	0.4563724	50	0.4511324	60	0.4552402
2-Nitroaniline	5	0.3348095	10	0.3794587	20	0.4097382	40	0.3964288	50	0.4169248	60	0.4094302
Nitrobenzene	5	0.4676748	10	0.4263656	20	0.4549903	40	0.4449821	50	0.4400608	60	0.4364229
Nitrobenzene-d5	5	0.4391221	10	0.4112926	20	0.4614935	40	0.4362959	50	0.44672	60	0.4445621
4-Nitrophenol	5	0.2405149	10	0.262735	20	0.2735694	40	0.2895708	50	0.2836056	60	0.3122808
2-Nitrophenol	5	0.1700531	10	0.1738362	20	0.1976594	40	0.1932137	50	0.1998064	60	0.2032045
N-Nitrosodimethylamine	5	0.6269734	10	0.59035	20	0.6517906	40	0.6216008	50	0.6093813	60	0.5738985
N-Nitrosodiphenylamine	5	0.5884764	10	0.6014375	20	0.6492499	40	0.6089782	50	0.6264034	60	0.6216496
N-Nitroso-di-n-propylamine	5	1.189603	10	1.156485	20	1.190885	40	1.171331	50	1.192116	60	1.134954
Pentachlorophenol	5	~~8.153637E-02~~	10	9.572368E-02	20	0.1293694	40	0.1371883	50	0.1373123	60	0.1416215
Phenanthrene	5	1.014155	10	1.006672	20	1.061624	40	1.065084	50	1.016924	60	1.03761
Phenol	5	2.439416	10	2.384831	20	2.521563	40	2.386374	50	2.341627	60	2.276088
Phenol-d6	10	1.976918	20	1.970167	40	2.125538	80	2.024099	100	2.06832	120	1.968604
Pyrene	5	1.217607	10	1.246171	20	1.316716	40	1.285709	50	1.335394	60	1.32673
Pyridine	5	2.217909	10	2.319321	20	2.362185	40	2.245072	50	2.304893	60	2.132767
Terphenyl-d14	5	0.6870783	10	0.7499243	20	0.7736616	40	0.7546076	50	0.7667226	60	0.7702226
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2713826	10	0.2770377	20	0.2900389	40	0.3048646	50	0.3105629	60	0.313908
2,4,6-Tribromophenol	10	9.588103E-02	20	9.818431E-02	40	0.1149666	80	0.1157648	100	0.111198	120	0.116375
1,2,4-Trichlorobenzene	5	0.2466628	10	0.2378432	20	0.2632445	40	0.255608	50	0.2597381	60	0.2527829
2,4,6-Trichlorophenol	5	0.3270577	10	0.3414148	20	0.3497186	40	0.3710868	50	0.3712814	60	0.3860436
2,4,5-Trichlorophenol	5	0.3185211	10	0.3294909	20	0.365739	40	0.3767376	50	0.3831701	60	0.3975717

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.058327	100	1.075952								
Acenaphthylene	80	1.766561	100	1.807569								
Acetophenone					5	1.909817	10	2.031129	20	2.039047	40	2.018201
Aniline	80	2.56114	100	2.442012								
Anthracene	80	1.093431	100	1.063954								
Atrazine					5	0.1668844	10	0.1757564	20	0.1836768	40	0.1907388
Benzaldehyde					5	1.357752	10	1.334678	20	1.373112	40	1.372376
Benzidine					5	0.6830456	10	0.7212548	20	0.8033707	40	0.8249081
Benzo(a)anthracene	80	1.184845	100	1.145572								
Benzo(a)pyrene	80	1.077988	100	1.036302								
Benzo(b)fluoranthene	80	1.131156	100	1.080335								
Benzo(g,h,i)perylene	80	0.9573059	100	0.9263243								
Benzoic acid	80	0.2406599	100	0.2603454								
Benzo(k)fluoranthene	80	1.16585	100	1.171508								
Benzyl alcohol	80	1.029513	100	1.035805								
1,1-Biphenyl					5	1.43531	10	1.485164	20	1.474266	40	1.495622
4-Bromophenyl-phenylether	80	0.1927913	100	0.1887663								
Butylbenzylphthalate	80	0.7341818	100	0.7261509								
Caprolactam					5	9.768377E-02	10	0.104025	20	0.1135163	40	0.1237562
Carbazole	80	1.012087	100	0.9890369								
4-Chloro-3-methylphenol	80	0.2932545	100	0.2890361								
4-Chloroaniline	80	0.4483115	100	0.4320235								
Bis(2-chloroethoxy)methane	80	0.4905203	100	0.497847								
Bis(2-chloroethyl)ether	80	1.844531	100	1.824293								
2,2'-Oxybis-1-chloropropane	80	2.233244	100	2.249014								
2-Chloronaphthalene	80	1.06362	100	1.133535								
2-Chlorophenol	80	1.532319	100	1.543943								
4-Chlorophenyl phenyl ether	80	0.5067925	100	0.5106141								
Chrysene	80	1.066935	100	1.042461								
Dibenz(a,h)anthracene	80	0.9601124	100	0.9315984								
Dibenzofuran	80	1.516069	100	1.529287								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	1.478792	100	1.316343								
1,4-Dichlorobenzene	80	1.440058	100	1.424768								
1,3-Dichlorobenzene	80	1.419489	100	1.428808								
1,2-Dichlorobenzene	80	1.360182	100	1.328803								
3,3'-Dichlorobenzidine					5	0.3313013	10	0.3525136	20	0.3766457	40	0.4004942
2,6-Dichlorophenol					5	0.2116836	10	0.2297115	20	0.2340374	40	0.2438428
2,4-Dichlorophenol	80	0.2419917	100	0.2447231								
Diethylphthalate	80	1.341489	100	1.411306								
2,4-Dimethylphenol	80	0.3388421	100	0.3521381								
Dimethyl phthalate	80	1.239793	100	1.297666								
4,6-Dinitro-2-methylphenol	80	0.1657449	100	0.1650316								
2,4-Dinitrophenol	80	0.2095114	100	0.221143								
2,4-Dinitrotoluene	80	0.4230432	100	0.4283516								
2,6-Dinitrotoluene	80	0.2957203	100	0.3063496								
Di-n-octylphthalate	80	1.966801	100	1.903473								
1,4-Dioxane					5	1.144446	10	0.804527	20	0.7823947	40	0.8116822
1,2-Diphenylhydrazine	80	1.16861	100	1.146099								
Bis(2-ethylhexyl)phthalate	80	0.9999323	100	0.9773898								
Fluoranthene	80	1.156661	100	1.055531								
Fluorene	80	1.040954	100	1.08819								
2-Fluorobiphenyl	80	1.183214	100	1.241869								
2-Fluorophenol	160	1.462558	200	1.470653								
Hexachlorobenzene	80	0.2160123	100	0.2064807								
Hexachlorobutadiene	80	0.1374434	100	0.1396075								
Hexachlorocyclopentadiene	80	0.3430654	100	0.3549931								
Hexachloroethane	80	0.6555376	100	0.6572187								
Indeno(1,2,3-cd)pyrene	80	1.137759	100	1.102703								
Isophorone	80	0.8661524	100	0.8720059								
1-Methylnaphthalene	80	0.4699895	100	0.4694343								
2-Methylnaphthalene	80	0.4913134	100	0.4928645								
2-Methylphenol	80	1.375262	100	1.360828								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.429646	100	1.419856								
4-Methylphenol	80	1.429646	100	1.419856								
3-Methylphenol/4-Methylphenol	80	1.429646	100	1.419856								
Naphthalene	80	1.018101	100	1.016697								
4-Nitroaniline	80	0.4391007	100	0.4375337								
3-Nitroaniline	80	0.4129324	100	0.4211253								
2-Nitroaniline	80	0.383058	100	0.4032748								
Nitrobenzene	80	0.4299797	100	0.4398174								
Nitrobenzene-d5	80	0.4348711	100	0.4433668								
4-Nitrophenol	80	0.2820391	100	0.2887068								
2-Nitrophenol	80	0.2000968	100	0.2043441								
N-Nitrosodimethylamine	80	0.5785712	100	0.5806788								
N-Nitrosodiphenylamine	80	0.6195758	100	0.6132362								
N-Nitroso-di-n-propylamine	80	1.117607	100	1.115744								
Pentachlorophenol	80	0.1436813	100	0.1432464								
Phenanthrene	80	1.058948	100	0.9871006								
Phenol	80	2.166796	100	2.084501								
Phenol-d6	160	1.945001	200	1.906219								
Pyrene	80	1.319631	100	1.31167								
Pyridine	80	2.152654	100	2.199151								
Terphenyl-d14	80	0.7576691	100	0.7481279								
1,2,4,5-Tetrachlorobenzene					5	0.2673972	10	0.2585537	20	0.2568752	40	0.2752239
2,3,4,6-Tetrachlorophenol	80	0.3015184	100	0.3140667								
2,4,6-Tribromophenol	160	0.115848	200	0.1109646								
1,2,4-Trichlorobenzene	80	0.245253	100	0.2497424								
2,4,6-Trichlorophenol	80	0.3535512	100	0.3693888								
2,4,5-Trichlorophenol	80	0.3697035	100	0.3711222								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_059	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2156006		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	5/31/12 18:21	6/1/12 1:16

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.970584	60	2.005776	80	1.939757	100	1.940128				
Aniline												
Anthracene												
Atrazine	50	0.1992863	60	0.203983	80	0.1849645	100	0.1915681				
Benzaldehyde	50	1.310853	60	1.34766	80	1.279366	100	1.261819				
Benzidine	50	0.8559782	60	0.8868889	80	0.8803441	100	0.8857341				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.477857	60	1.508824	80	1.447525	100	1.35277				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1217425	60	0.1291279	80	0.1187536	100	0.1252729				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.4015406	60	0.4031838	80	0.4021314	100	0.4067897				
2,6-Dichlorophenol	50	0.239802	60	0.2546334	80	0.242233	100	0.245765				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.7646333	60	0.7828108	80	0.7489522	100	0.7514672				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2156006	Instrument:	MS-BNA1	
Matrix:	Water	Calibration Dates:	5/31/12 18:21	6/1/12 1:16

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.256451	60	0.2609758	80	0.253498	100	0.2489809				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2156006	Instrument:	MS-BNA1		
Matrix:	Water	Calibration Dates:	5/31/12 18:21	6/1/12 1:16	

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

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2156006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	5/31/12 18:21 6/1/12 1:16

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

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_059	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2156006		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	5/31/12 18:21	6/1/12 1:16

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

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV1	Injection Time:	01:44

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

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV1	Injection Time:	01:44

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

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV1	Injection Time:	01:44

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

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV2	Injection Time:	02:12

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

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV3	Injection Time:	16:44

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

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/01/12
Lab Sample ID:	2F15401-ICV4	Injection Time:	17:11

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

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-ICV6.D	Calibration Date:	05/31/12 00:00
Sequence:	2F15401	Injection Date:	06/04/12
Lab Sample ID:	2F15401-ICV5	Injection Time:	15:03

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

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22708	Injection Date:	08/13/12
Lab Sample ID:	2H22708-CCV1	Injection Time:	14:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	53.95	1.136987	1.226803	0.9	7.9	20
Acenaphthylene	A	50.00	54.83	1.876142	2.057419	0.9	9.7	20
Anthracene	A	50.00	53.80	1.054797	1.135083	0.7	7.6	20
Benzo(a)anthracene	A	50.00	52.11	1.127046	1.174653	0.8	4.2	20
Benzo(a)pyrene	A	50.00	53.35	1.037678	1.107271	0.7	6.7	20
Benzo(b)fluoranthene	A	50.00	52.17	1.119538	1.168066	0.7	4.3	20
Benzo(g,h,i)perylene	A	50.00	54.01	0.9327314	1.007541	0.5	8.0	20
Benzoic acid	L	50.00	42.90	0.2119614	0.1758353	0.01	-14.2	20
Benzo(k)fluoranthene	A	50.00	54.81	1.183338	1.297267	0.7	9.6	20
4-Bromophenyl-phenylether	A	50.00	52.30	0.1888061	0.1974878	0.1	4.6	20
Butylbenzylphthalate	A	50.00	57.15	0.6706426	0.7665548	0.01	14.3	20
Carbazole	A	50.00	55.34	1.013887	1.122254	0.01	10.7	20
4-Chloro-3-methylphenol	A	50.00	52.05	0.2913522	0.3033255	0.2	4.1	20
4-Chloroaniline	A	50.00	52.74	0.4367423	0.4606968	0.01	5.5	20
Bis(2-chloroethoxy)methane	A	50.00	47.33	0.5182488	0.4905711	0.3	-5.3	20
Bis(2-chloroethyl)ether	A	50.00	47.47	1.849551	1.756108	0.7	-5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	57.78	2.322149	2.683733	0.01	15.6	20
2-Chloronaphthalene	A	50.00	50.53	1.14673	1.158866	0.8	1.1	20
2-Chlorophenol	A	50.00	55.24	1.49343	1.650099	0.8	10.5	20
4-Chlorophenyl phenyl ether	A	50.00	51.91	0.5655923	0.5871955	0.4	3.8	20
Chrysene	A	50.00	51.03	1.056978	1.078713	0.7	2.1	20
Dibenz(a,h)anthracene	A	50.00	53.60	0.927476	0.9943181	0.4	7.2	20
Dibenzofuran	A	50.00	52.35	1.556891	1.630006	0.8	4.7	20
Di-n-butylphthalate	A	50.00	59.19	1.422346	1.683816	0.01	18.4	20
2,4-Dichlorophenol	A	50.00	52.27	0.241012	0.2519367	0.2	4.5	20
Diethylphthalate	A	50.00	53.64	1.3631	1.462229	0.01	7.3	20
2,4-Dimethylphenol	A	50.00	51.29	0.3519307	0.3609963	0.2	2.6	20
Dimethyl phthalate	A	50.00	53.87	1.312894	1.414627	0.01	7.7	20
4,6-Dinitro-2-methylphenol	L	50.00	49.72	0.1423453	0.1532037	0.01	-0.6	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22708	Injection Date:	08/13/12
Lab Sample ID:	2H22708-CCV1	Injection Time:	14:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	49.46	0.189189	0.2023119	0.01	-1.1	20
2,4-Dinitrotoluene	A	50.00	52.81	0.4026331	0.4252351	0.2	5.6	20
2,6-Dinitrotoluene	A	50.00	51.42	0.3082828	0.3170294	0.2	2.8	20
Di-n-octylphthalate	L	50.00	53.67	1.691535	2.019898	0.01	7.3	20
1,2-Diphenylhydrazine	A	50.00	50.68	1.206569	1.223006	0.01	1.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.53	0.9262458	1.047242	0.01	13.1	20
Fluoranthene	A	50.00	53.82	1.116696	1.20191	0.6	7.6	20
Fluorene	A	50.00	55.48	1.192539	1.323202	0.9	11.0	20
Hexachlorobenzene	A	50.00	50.58	0.2086611	0.2110755	0.1	1.2	20
Hexachlorobutadiene	A	50.00	46.56	0.1401148	0.1304738	0.01	-6.9	20
Hexachlorocyclopentadiene	A	50.00	48.60	0.3377187	0.3282933	0.05	-2.8	20
Hexachloroethane	A	50.00	50.22	0.6768699	0.6798301	0.3	0.4	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.11	1.101365	1.191817	0.5	8.2	20
Isophorone	A	50.00	45.53	0.8641251	0.7869421	0.4	-8.9	20
1-Methylnaphthalene	A	50.00	53.00	0.4880715	0.517412	0.01	6.0	20
2-Methylnaphthalene	A	50.00	53.13	0.5061603	0.5378326	0.4	6.3	20
2-Methylphenol	A	50.00	51.99	1.397021	1.452565	0.7	4.0	20
3-Methylphenol/4-Methylphenol	A	50.00	53.42	1.442796	1.541623		6.8	20
Naphthalene	L	50.00	54.27	1.050386	1.126346	0.7	8.5	20
4-Nitroaniline	A	50.00	53.08	0.4178622	0.4436317	0.01	6.2	20
3-Nitroaniline	A	50.00	55.38	0.4255398	0.4713129	0.01	10.8	20
2-Nitroaniline	A	50.00	53.26	0.3916404	0.4171481	0.01	6.5	20
Nitrobenzene	A	50.00	46.26	0.4425367	0.4094516	0.2	-7.5	20
4-Nitrophenol	A	50.00	52.37	0.2791278	0.2923592	0.01	4.7	20
2-Nitrophenol	A	50.00	53.63	0.1927768	0.2067723	0.1	7.3	20
N-Nitrosodiphenylamine	A	50.00	55.33	0.6161259	0.6818609	0.01	10.7	20
N-Nitroso-di-n-propylamine	A	50.00	52.33	1.158591	1.212522	0.5	4.7	20
Pentachlorophenol	L	50.00	47.19	0.1325918	0.13088	0.05	-5.6	20
Phenanthrene	A	50.00	54.37	1.031015	1.121099	0.7	8.7	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22708	Injection Date:	08/13/12
Lab Sample ID:	2H22708-CCV1	Injection Time:	14:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	48.88	2.325149	2.272907	0.8	-2.2	20
Pyrene	A	50.00	54.98	1.294953	1.424002	0.6	10.0	20
2,4,6-Trichlorophenol	A	50.00	51.74	0.3586929	0.3711551	0.2	3.5	20
2,4,5-Trichlorophenol	A	50.00	52.72	0.364007	0.3838379	0.2	5.4	20
2-Fluorobiphenyl	A	50.00	51.18	1.275261	1.305389	0.01	2.4	20
2-Fluorophenol	A	100.0	101.9	1.495125	1.523132	0.01	1.9	20
Nitrobenzene-d5	A	50.00	44.20	0.4397155	0.3887423	0.01	-11.6	20
Phenol-d6	A	100.0	102.8	1.998108	2.053197	0.01	2.8	20
Terphenyl-d14	A	50.00	51.74	0.7510018	0.7772217	0.01	3.5	20
2,4,6-Tribromophenol	A	100.0	109.7	0.1098978	0.1206015	0.01	9.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22708	Injection Date:	08/13/12
Lab Sample ID:	2H22708-CCV2	Injection Time:	15:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	50.96	1.981805	2.01995	0.01	1.9	20
Atrazine	A	50.00	52.42	0.1871073	0.1961665	0.01	4.8	20
Benzaldehyde	A	50.00	50.21	1.329702	1.335255	0.01	0.4	20
Benzidine	A	50.00	55.69	0.8176906	0.9107276	0.01	11.4	20
1,1-Biphenyl	A	50.00	50.33	1.459667	1.469369	0.01	0.7	20
Caprolactam	A	50.00	50.45	0.1167348	0.1177828	0.01	0.9	20
3,3'-Dichlorobenzidine	A	50.00	53.88	0.384325	0.4141114	0.01	7.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22908	Injection Date:	08/14/12
Lab Sample ID:	2H22908-CCV1	Injection Time:	14:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	54.17	1.136987	1.231724	0.9	8.3	20	
Acenaphthylene	A	50.00	56.92	1.876142	2.136004	0.9	13.9	20	
Anthracene	A	50.00	55.48	1.054797	1.170366	0.7	11.0	20	
Benzo(a)anthracene	A	50.00	51.72	1.127046	1.165766	0.8	3.4	20	
Benzo(a)pyrene	A	50.00	52.70	1.037678	1.093679	0.7	5.4	20	
Benzo(b)fluoranthene	A	50.00	55.06	1.119538	1.232906	0.7	10.1	20	
Benzo(g,h,i)perylene	A	50.00	53.65	0.9327314	1.000747	0.5	7.3	20	
Benzoic acid	L	50.00	40.05	0.2119614	0.1592633	0.01	-19.9	20	
Benzo(k)fluoranthene	A	50.00	52.54	1.183338	1.24349	0.7	5.1	20	
4-Bromophenyl-phenylether	A	50.00	50.91	0.1888061	0.1922603	0.1	1.8	20	
Butylbenzylphthalate	A	50.00	57.42	0.6706426	0.7701675	0.01	14.8	20	
Carbazole	A	50.00	55.91	1.013887	1.133763	0.01	11.8	20	
4-Chloro-3-methylphenol	A	50.00	53.05	0.2913522	0.3091514	0.2	6.1	20	
4-Chloroaniline	A	50.00	51.79	0.4367423	0.4523723	0.01	3.6	20	
Bis(2-chloroethoxy)methane	A	50.00	46.96	0.5182488	0.4867897	0.3	-6.1	20	
Bis(2-chloroethyl)ether	A	50.00	46.16	1.849551	1.707394	0.7	-7.7	20	
2,2'-Oxybis-1-chloropropane	A	50.00	65.26	2.322149	3.031116	0.01	30.5	20	*
2-Chloronaphthalene	A	50.00	53.96	1.14673	1.237536	0.8	7.9	20	
2-Chlorophenol	A	50.00	56.18	1.49343	1.677912	0.8	12.4	20	
4-Chlorophenyl phenyl ether	A	50.00	54.18	0.5655923	0.6129269	0.4	8.4	20	
Chrysene	A	50.00	50.50	1.056978	1.067597	0.7	1.0	20	
Dibenz(a,h)anthracene	A	50.00	52.32	0.927476	0.9705911	0.4	4.6	20	
Dibenzofuran	A	50.00	53.58	1.556891	1.668488	0.8	7.2	20	
Di-n-butylphthalate	A	50.00	57.52	1.422346	1.636349	0.01	15.0	20	
2,4-Dichlorophenol	A	50.00	49.65	0.241012	0.239308	0.2	-0.7	20	
Diethylphthalate	A	50.00	52.45	1.3631	1.429871	0.01	4.9	20	
2,4-Dimethylphenol	A	50.00	51.18	0.3519307	0.3602343	0.2	2.4	20	
Dimethyl phthalate	A	50.00	53.76	1.312894	1.41163	0.01	7.5	20	
4,6-Dinitro-2-methylphenol	L	50.00	48.56	0.1423453	0.1491188	0.01	-2.9	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22908	Injection Date:	08/14/12
Lab Sample ID:	2H22908-CCV1	Injection Time:	14:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	45.33	0.189189	0.18315	0.01	-9.3	20
2,4-Dinitrotoluene	A	50.00	52.63	0.4026331	0.4238201	0.2	5.3	20
2,6-Dinitrotoluene	A	50.00	54.05	0.3082828	0.3332332	0.2	8.1	20
Di-n-octylphthalate	L	50.00	54.51	1.691535	2.053367	0.01	9.0	20
1,2-Diphenylhydrazine	A	50.00	54.14	1.206569	1.306608	0.01	8.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	55.00	0.9262458	1.018959	0.01	10.0	20
Fluoranthene	A	50.00	51.90	1.116696	1.15915	0.6	3.8	20
Fluorene	A	50.00	55.79	1.192539	1.330663	0.9	11.6	20
Hexachlorobenzene	A	50.00	48.13	0.2086611	0.2008574	0.1	-3.7	20
Hexachlorobutadiene	A	50.00	45.14	0.1401148	0.1265011	0.01	-9.7	20
Hexachlorocyclopentadiene	A	50.00	48.62	0.3377187	0.3284036	0.05	-2.8	20
Hexachloroethane	A	50.00	50.32	0.6768699	0.681158	0.3	0.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.44	1.101365	1.15503	0.5	4.9	20
Isophorone	A	50.00	47.06	0.8641251	0.8133113	0.4	-5.9	20
1-Methylnaphthalene	A	50.00	52.06	0.4880715	0.5081474	0.01	4.1	20
2-Methylnaphthalene	A	50.00	54.61	0.5061603	0.5528077	0.4	9.2	20
2-Methylphenol	A	50.00	51.50	1.397021	1.438794	0.7	3.0	20
3-Methylphenol/4-Methylphenol	A	50.00	52.15	1.442796	1.504796		4.3	20
Naphthalene	L	50.00	54.66	1.050386	1.134229	0.7	9.3	20
4-Nitroaniline	A	50.00	52.41	0.4178622	0.4380248	0.01	4.8	20
3-Nitroaniline	A	50.00	56.19	0.4255398	0.4782183	0.01	12.4	20
2-Nitroaniline	A	50.00	55.51	0.3916404	0.4348036	0.01	11.0	20
Nitrobenzene	A	50.00	46.80	0.4425367	0.4142191	0.2	-6.4	20
4-Nitrophenol	A	50.00	56.87	0.2791278	0.3174598	0.01	13.7	20
2-Nitrophenol	A	50.00	51.64	0.1927768	0.1991194	0.1	3.3	20
N-Nitrosodiphenylamine	A	50.00	54.49	0.6161259	0.6714862	0.01	9.0	20
N-Nitroso-di-n-propylamine	A	50.00	53.10	1.158591	1.230471	0.5	6.2	20
Pentachlorophenol	L	50.00	44.22	0.1325918	0.1220604	0.05	-11.6	20
Phenanthrene	A	50.00	55.18	1.031015	1.137906	0.7	10.4	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22908	Injection Date:	08/14/12
Lab Sample ID:	2H22908-CCV1	Injection Time:	14:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	48.81	2.325149	2.269976	0.8	-2.4	20
Pyrene	A	50.00	55.01	1.294953	1.424655	0.6	10.0	20
2,4,6-Trichlorophenol	A	50.00	51.34	0.3586929	0.3683308	0.2	2.7	20
2,4,5-Trichlorophenol	A	50.00	50.17	0.364007	0.3652759	0.2	0.3	20
2-Fluorobiphenyl	A	50.00	50.53	1.275261	1.288698	0.01	1.1	20
2-Fluorophenol	A	100.0	100.9	1.495125	1.50834	0.01	0.9	20
Nitrobenzene-d5	A	50.00	45.12	0.4397155	0.3968021	0.01	-9.8	20
Phenol-d6	A	100.0	105.0	1.998108	2.098608	0.01	5.0	20
Terphenyl-d14	A	50.00	51.32	0.7510018	0.770861	0.01	2.6	20
2,4,6-Tribromophenol	A	100.0	104.4	0.1098978	0.1146995	0.01	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

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2H22908	Injection Date:	08/14/12
Lab Sample ID:	2H22908-CCV2	Injection Time:	15:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	51.09	1.981805	2.025103	0.01	2.2	20
Atrazine	A	50.00	50.07	0.1871073	0.1873696	0.01	0.1	20
Benzaldehyde	A	50.00	50.62	1.329702	1.346302	0.01	1.2	20
Benzidine	A	50.00	52.67	0.8176906	0.8613068	0.01	5.3	20
1,1-Biphenyl	A	50.00	56.42	1.459667	1.647018	0.01	12.8	20
Caprolactam	A	50.00	49.66	0.1167348	0.1159507	0.01	-0.7	20
3,3'-Dichlorobenzidine	A	50.00	51.92	0.384325	0.399047	0.01	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

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23001	Injection Date:	08/16/12
Lab Sample ID:	2H23001-CCV1	Injection Time:	13:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	53.31	1.136987	1.212357	0.9	6.6	20	
Acenaphthylene	A	50.00	52.78	1.876142	1.980616	0.9	5.6	20	
Anthracene	A	50.00	55.94	1.054797	1.180131	0.7	11.9	20	
Benzo(a)anthracene	A	50.00	52.60	1.127046	1.185591	0.8	5.2	20	
Benzo(a)pyrene	A	50.00	54.14	1.037678	1.123638	0.7	8.3	20	
Benzo(b)fluoranthene	A	50.00	52.75	1.119538	1.181178	0.7	5.5	20	
Benzo(g,h,i)perylene	A	50.00	54.57	0.9327314	1.017926	0.5	9.1	20	
Benzoic acid	L	50.00	45.66	0.2119614	0.1919694	0.01	-8.7	20	
Benzo(k)fluoranthene	A	50.00	59.63	1.183338	1.4113	0.7	19.3	20	
4-Bromophenyl-phenylether	A	50.00	50.30	0.1888061	0.1899513	0.1	0.6	20	
Butylbenzylphthalate	A	50.00	61.66	0.6706426	0.8270729	0.01	23.3	20	*
Carbazole	A	50.00	56.96	1.013887	1.154939	0.01	13.9	20	
4-Chloro-3-methylphenol	A	50.00	54.38	0.2913522	0.3168523	0.2	8.8	20	
4-Chloroaniline	A	50.00	52.62	0.4367423	0.4596631	0.01	5.2	20	
Bis(2-chloroethoxy)methane	A	50.00	50.01	0.5182488	0.5183802	0.3	0.03	20	
Bis(2-chloroethyl)ether	A	50.00	49.91	1.849551	1.846164	0.7	-0.2	20	
2,2'-Oxybis-1-chloropropane	A	50.00	68.37	2.322149	3.175509	0.01	36.7	20	*
2-Chloronaphthalene	A	50.00	52.99	1.14673	1.21526	0.8	6.0	20	
2-Chlorophenol	A	50.00	56.07	1.49343	1.674844	0.8	12.1	20	
4-Chlorophenyl phenyl ether	A	50.00	52.17	0.5655923	0.5901713	0.4	4.3	20	
Chrysene	A	50.00	52.19	1.056978	1.10326	0.7	4.4	20	
Dibenz(a,h)anthracene	A	50.00	54.35	0.927476	1.008185	0.4	8.7	20	
Dibenzofuran	A	50.00	53.21	1.556891	1.656774	0.8	6.4	20	
Di-n-butylphthalate	A	50.00	59.47	1.422346	1.691746	0.01	18.9	20	
2,4-Dichlorophenol	A	50.00	50.43	0.241012	0.2430947	0.2	0.9	20	
Diethylphthalate	A	50.00	53.87	1.3631	1.468501	0.01	7.7	20	
2,4-Dimethylphenol	A	50.00	53.11	0.3519307	0.3738206	0.2	6.2	20	
Dimethyl phthalate	A	50.00	52.47	1.312894	1.377784	0.01	4.9	20	
4,6-Dinitro-2-methylphenol	L	50.00	50.23	0.1423453	0.1550209	0.01	0.5	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23001	Injection Date:	08/16/12
Lab Sample ID:	2H23001-CCV1	Injection Time:	13:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	42.98	0.189189	0.1722191	0.01	-14.0	20
2,4-Dinitrotoluene	A	50.00	53.86	0.4026331	0.4336861	0.2	7.7	20
2,6-Dinitrotoluene	A	50.00	54.00	0.3082828	0.3329291	0.2	8.0	20
Di-n-octylphthalate	L	50.00	59.30	1.691535	2.244831	0.01	18.6	20
1,2-Diphenylhydrazine	A	50.00	58.03	1.206569	1.400357	0.01	16.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	59.56	0.9262458	1.103432	0.01	19.1	20
Fluoranthene	A	50.00	54.84	1.116696	1.22481	0.6	9.7	20
Fluorene	A	50.00	56.82	1.192539	1.355118	0.9	13.6	20
Hexachlorobenzene	A	50.00	48.35	0.2086611	0.2017707	0.1	-3.3	20
Hexachlorobutadiene	A	50.00	44.15	0.1401148	0.1237229	0.01	-11.7	20
Hexachlorocyclopentadiene	A	50.00	46.44	0.3377187	0.3136706	0.05	-7.1	20
Hexachloroethane	A	50.00	53.00	0.6768699	0.7175622	0.3	6.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.11	1.101365	1.192005	0.5	8.2	20
Isophorone	A	50.00	50.14	0.8641251	0.8665059	0.4	0.3	20
1-Methylnaphthalene	A	50.00	51.50	0.4880715	0.5026946	0.01	3.0	20
2-Methylnaphthalene	A	50.00	54.19	0.5061603	0.5485736	0.4	8.4	20
2-Methylphenol	A	50.00	54.82	1.397021	1.531858	0.7	9.7	20
3-Methylphenol/4-Methylphenol	A	50.00	57.25	1.442796	1.651925		14.5	20
Naphthalene	L	50.00	56.58	1.050386	1.173195	0.7	13.2	20
4-Nitroaniline	A	50.00	53.56	0.4178622	0.4476426	0.01	7.1	20
3-Nitroaniline	A	50.00	55.28	0.4255398	0.4705102	0.01	10.6	20
2-Nitroaniline	A	50.00	58.41	0.3916404	0.4575277	0.01	16.8	20
Nitrobenzene	A	50.00	50.74	0.4425367	0.4491005	0.2	1.5	20
4-Nitrophenol	A	50.00	56.39	0.2791278	0.3148238	0.01	12.8	20
2-Nitrophenol	A	50.00	53.24	0.1927768	0.2052824	0.1	6.5	20
N-Nitrosodiphenylamine	A	50.00	57.32	0.6161259	0.7062939	0.01	14.6	20
N-Nitroso-di-n-propylamine	A	50.00	58.44	1.158591	1.354185	0.5	16.9	20
Pentachlorophenol	L	50.00	43.43	0.1325918	0.1197026	0.05	-13.1	20
Phenanthrene	A	50.00	55.94	1.031015	1.153521	0.7	11.9	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23001	Injection Date:	08/16/12
Lab Sample ID:	2H23001-CCV1	Injection Time:	13:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	52.37	2.325149	2.435583	0.8	4.7	20
Pyrene	A	50.00	55.84	1.294953	1.446225	0.6	11.7	20
2,4,6-Trichlorophenol	A	50.00	51.45	0.3586929	0.3691119	0.2	2.9	20
2,4,5-Trichlorophenol	A	50.00	50.51	0.364007	0.3677315	0.2	1.0	20
2-Fluorobiphenyl	A	50.00	52.05	1.275261	1.327531	0.01	4.1	20
2-Fluorophenol	A	100.0	105.5	1.495125	1.577317	0.01	5.5	20
Nitrobenzene-d5	A	50.00	46.03	0.4397155	0.4047738	0.01	-7.9	20
Phenol-d6	A	100.0	112.2	1.998108	2.241113	0.01	12.2	20
Terphenyl-d14	A	50.00	52.99	0.7510018	0.7959171	0.01	6.0	20
2,4,6-Tribromophenol	A	100.0	104.0	0.1098978	0.1143236	0.01	4.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23001	Injection Date:	08/16/12
Lab Sample ID:	2H23001-CCV2	Injection Time:	13:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	53.21	1.981805	2.109213	0.01	6.4	20
Atrazine	A	50.00	51.95	0.1871073	0.1944226	0.01	3.9	20
Benzaldehyde	A	50.00	52.14	1.329702	1.386762	0.01	4.3	20
Benzidine	A	50.00	56.35	0.8176906	0.9215762	0.01	12.7	20
1,1-Biphenyl	A	50.00	55.04	1.459667	1.606837	0.01	10.1	20
Caprolactam	A	50.00	52.46	0.1167348	0.1224825	0.01	4.9	20
3,3'-Dichlorobenzidine	A	50.00	51.68	0.384325	0.3972341	0.01	3.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23305	Injection Date:	08/17/12
Lab Sample ID:	2H23305-CCV1	Injection Time:	14:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	55.64	1.136987	1.265155	0.9	11.3	20	
Acenaphthylene	A	50.00	55.53	1.876142	2.083623	0.9	11.1	20	
Anthracene	A	50.00	54.36	1.054797	1.146728	0.7	8.7	20	
Benzo(a)anthracene	A	50.00	53.41	1.127046	1.203883	0.8	6.8	20	
Benzo(a)pyrene	A	50.00	52.46	1.037678	1.088641	0.7	4.9	20	
Benzo(b)fluoranthene	A	50.00	58.07	1.119538	1.30033	0.7	16.1	20	
Benzo(g,h,i)perylene	A	50.00	53.82	0.9327314	1.003948	0.5	7.6	20	
Benzoic acid	L	50.00	42.22	0.2119614	0.171908	0.01	-15.6	20	
Benzo(k)fluoranthene	A	50.00	55.86	1.183338	1.321982	0.7	11.7	20	
4-Bromophenyl-phenylether	A	50.00	48.60	0.1888061	0.1835317	0.1	-2.8	20	
Butylbenzylphthalate	A	50.00	58.78	0.6706426	0.7884722	0.01	17.6	20	
Carbazole	A	50.00	54.14	1.013887	1.09777	0.01	8.3	20	
4-Chloro-3-methylphenol	A	50.00	52.32	0.2913522	0.3048462	0.2	4.6	20	
4-Chloroaniline	A	50.00	54.27	0.4367423	0.4740069	0.01	8.5	20	
Bis(2-chloroethoxy)methane	A	50.00	49.87	0.5182488	0.5168683	0.3	-0.3	20	
Bis(2-chloroethyl)ether	A	50.00	49.14	1.849551	1.81774	0.7	-1.7	20	
2,2'-Oxybis-1-chloropropane	A	50.00	66.74	2.322149	3.099562	0.01	33.5	20	*
2-Chloronaphthalene	A	50.00	53.66	1.14673	1.230591	0.8	7.3	20	
2-Chlorophenol	A	50.00	56.11	1.49343	1.67591	0.8	12.2	20	
4-Chlorophenyl phenyl ether	A	50.00	52.45	0.5655923	0.5933283	0.4	4.9	20	
Chrysene	A	50.00	52.26	1.056978	1.104809	0.7	4.5	20	
Dibenz(a,h)anthracene	A	50.00	55.09	0.927476	1.021914	0.4	10.2	20	
Dibenzofuran	A	50.00	51.83	1.556891	1.613945	0.8	3.7	20	
Di-n-butylphthalate	A	50.00	57.82	1.422346	1.644799	0.01	15.6	20	
2,4-Dichlorophenol	A	50.00	52.36	0.241012	0.2523866	0.2	4.7	20	
Diethylphthalate	A	50.00	50.80	1.3631	1.384978	0.01	1.6	20	
2,4-Dimethylphenol	A	50.00	53.51	0.3519307	0.3766496	0.2	7.0	20	
Dimethyl phthalate	A	50.00	54.90	1.312894	1.441477	0.01	9.8	20	
4,6-Dinitro-2-methylphenol	L	50.00	47.84	0.1423453	0.146603	0.01	-4.3	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23305	Injection Date:	08/17/12
Lab Sample ID:	2H23305-CCV1	Injection Time:	14:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	42.27	0.189189	0.1689295	0.01	-15.5	20
2,4-Dinitrotoluene	A	50.00	52.85	0.4026331	0.4256217	0.2	5.7	20
2,6-Dinitrotoluene	A	50.00	51.71	0.3082828	0.3188254	0.2	3.4	20
Di-n-octylphthalate	L	50.00	56.08	1.691535	2.116263	0.01	12.2	20
1,2-Diphenylhydrazine	A	50.00	55.14	1.206569	1.330713	0.01	10.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	55.77	0.9262458	1.03308	0.01	11.5	20
Fluoranthene	A	50.00	52.25	1.116696	1.166996	0.6	4.5	20
Fluorene	A	50.00	56.13	1.192539	1.338778	0.9	12.3	20
Hexachlorobenzene	A	50.00	49.39	0.2086611	0.2061211	0.1	-1.2	20
Hexachlorobutadiene	A	50.00	45.41	0.1401148	0.1272639	0.01	-9.2	20
Hexachlorocyclopentadiene	A	50.00	47.77	0.3377187	0.3226374	0.05	-4.5	20
Hexachloroethane	A	50.00	52.36	0.6768699	0.7087944	0.3	4.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.83	1.101365	1.18582	0.5	7.7	20
Isophorone	A	50.00	48.73	0.8641251	0.8421939	0.4	-2.5	20
1-Methylnaphthalene	A	50.00	55.23	0.4880715	0.5390944	0.01	10.5	20
2-Methylnaphthalene	A	50.00	53.64	0.5061603	0.5429762	0.4	7.3	20
2-Methylphenol	A	50.00	54.67	1.397021	1.527583	0.7	9.3	20
3-Methylphenol/4-Methylphenol	A	50.00	56.41	1.442796	1.627811		12.8	20
Naphthalene	L	50.00	56.84	1.050386	1.178496	0.7	13.7	20
4-Nitroaniline	A	50.00	50.44	0.4178622	0.4215707	0.01	0.9	20
3-Nitroaniline	A	50.00	54.16	0.4255398	0.4609343	0.01	8.3	20
2-Nitroaniline	A	50.00	57.86	0.3916404	0.4532164	0.01	15.7	20
Nitrobenzene	A	50.00	49.30	0.4425367	0.4363393	0.2	-1.4	20
4-Nitrophenol	A	50.00	55.62	0.2791278	0.3104777	0.01	11.2	20
2-Nitrophenol	A	50.00	53.98	0.1927768	0.2081364	0.1	8.0	20
N-Nitrosodiphenylamine	A	50.00	57.64	0.6161259	0.7102639	0.01	15.3	20
N-Nitroso-di-n-propylamine	A	50.00	53.47	1.158591	1.239048	0.5	6.9	20
Pentachlorophenol	L	50.00	43.94	0.1325918	0.1212282	0.05	-12.1	20
Phenanthrene	A	50.00	55.66	1.031015	1.147819	0.7	11.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23305	Injection Date:	08/17/12
Lab Sample ID:	2H23305-CCV1	Injection Time:	14:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	54.06	2.325149	2.5139	0.8	8.1	20
Pyrene	A	50.00	57.04	1.294953	1.477258	0.6	14.1	20
2,4,6-Trichlorophenol	A	50.00	51.07	0.3586929	0.3663549	0.2	2.1	20
2,4,5-Trichlorophenol	A	50.00	51.64	0.364007	0.375981	0.2	3.3	20
2-Fluorobiphenyl	A	50.00	53.20	1.275261	1.357012	0.01	6.4	20
2-Fluorophenol	A	100.0	108.2	1.495125	1.61781	0.01	8.2	20
Nitrobenzene-d5	A	50.00	46.03	0.4397155	0.4048332	0.01	-7.9	20
Phenol-d6	A	100.0	111.4	1.998108	2.226227	0.01	11.4	20
Terphenyl-d14	A	50.00	60.65	0.7510018	0.9109073	0.01	21.3	20 *
2,4,6-Tribromophenol	A	100.0	102.4	0.1098978	0.1125259	0.01	2.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2156006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	05/31/12 00:00
Sequence:	2H23305	Injection Date:	08/17/12
Lab Sample ID:	2H23305-CCV2	Injection Time:	14:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	55.51	1.981805	2.20017	0.01	11.0	20
Atrazine	A	50.00	48.51	0.1871073	0.181524	0.01	-3.0	20
Benzaldehyde	A	50.00	54.52	1.329702	1.449921	0.01	9.0	20
Benzidine	A	50.00	57.11	0.8176906	0.9340354	0.01	14.2	20
1,1-Biphenyl	A	50.00	55.77	1.459667	1.628006	0.01	11.5	20
Caprolactam	A	50.00	49.86	0.1167348	0.1164107	0.01	-0.3	20
3,3'-Dichlorobenzidine	A	50.00	52.20	0.384325	0.4012599	0.01	4.4	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_059

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

Matrix: Laboratory ID: 2G31012-BLK1 File ID: G31012B1.D

Sampled: Prepared: Analyzed: 08/13/12 15:33

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	Q, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	Q, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2G31012-BLK1 File ID: G31012B1.D

Sampled: Prepared: Analyzed: 08/13/12 15:33

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Q, U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	Q, 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	29.52	59.0	50 - 110	
2-Fluorophenol	100.0	30.01	30.0	20 - 110	
Nitrobenzene-d5	50.00	28.52	57.0	40 - 110	
Phenol-d6	100.0	16.38	16.4	0 - 110	
Terphenyl-d14	50.00	39.76	79.5	50 - 135	
2,4,6-Tribromophenol	100.0	69.74	69.7	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_059

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

Matrix: | Laboratory ID: 2G31012-BS1 | File ID: G31012L1.D

Sampled: | Prepared: | Analyzed: 08/13/12 16:00

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2G31012 | Sequence: 2H22708 | Calibration: 2156006 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	24.71	1.25	2.50	5.00	
208-96-8	Acenaphthylene	26.67	1.25	2.50	5.00	
98-86-2	Acetophenone	33.99	1.25	2.50	5.00	
120-12-7	Anthracene	33.40	1.25	2.50	5.00	
1912-24-9	Atrazine	32.62	1.25	2.50	5.00	
100-52-7	Benzaldehyde	30.51	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	32.48	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	32.62	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	31.55	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	33.47	1.25	2.50	5.00	
65-85-0	Benzoic acid	15.13	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	36.04	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	32.72	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	30.29	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	37.02	1.25	2.50	5.00	
105-60-2	Caprolactam	5.050	1.25	2.50	5.00	
86-74-8	Carbazole	40.16	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	61.28	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	32.84	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	26.66	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	25.91	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	33.41	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	20.86	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	59.57	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	28.35	1.25	2.50	5.00	
218-01-9	Chrysene	32.62	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	32.75	1.25	2.50	5.00	
132-64-9	Dibenzofuran	25.13	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	35.48	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	27.27	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	59.40	1.25	2.50	5.00	
84-66-2	Diethylphthalate	32.50	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	59.61	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	31.56	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	69.42	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	62.71	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	30.77	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	29.24	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	35.46	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2G31012-BS1 File ID: G31012L1.D

Sampled: Prepared: Analyzed: 08/13/12 16:00

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	35.86	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	35.20	1.25	2.50	5.00	
206-44-0	Fluoranthene	33.24	1.25	2.50	5.00	
86-73-7	Fluorene	28.36	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	29.81	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	13.65	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	12.78	1.25	5.00	10.0	
67-72-1	Hexachloroethane	15.45	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	32.73	1.25	2.50	5.00	
78-59-1	Isophorone	24.41	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	24.61	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	20.75	1.25	2.50	5.00	
95-48-7	2-Methylphenol	47.69	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	44.90	1.25	2.50	5.00	
91-20-3	Naphthalene	21.80	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	36.07	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	33.68	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	39.89	5.00	10.0	20.0	
98-95-3	Nitrobenzene	24.42	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	19.56	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	62.97	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	26.84	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	32.55	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	64.81	5.00	10.0	20.0	
85-01-8	Phenanthrene	33.07	1.25	2.50	5.00	
108-95-2	Phenol	18.07	1.25	2.50	5.00	
129-00-0	Pyrene	34.75	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	65.01	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	66.07	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	29.66	59.3	50 - 110	
2-Fluorophenol	100.0	30.89	30.9	20 - 110	
Nitrobenzene-d5	50.00	26.82	53.6	40 - 110	
Phenol-d6	100.0	17.91	17.9	0 - 110	
Terphenyl-d14	50.00	37.97	75.9	50 - 135	
2,4,6-Tribromophenol	100.0	73.24	73.2	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2G31012-BSD1 File ID: G31012L2.D

Sampled: Prepared: Analyzed: 08/13/12 16:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	28.97	1.25	2.50	5.00	
208-96-8	Acenaphthylene	30.64	1.25	2.50	5.00	
98-86-2	Acetophenone	33.84	1.25	2.50	5.00	
120-12-7	Anthracene	34.19	1.25	2.50	5.00	
1912-24-9	Atrazine	35.55	1.25	2.50	5.00	
100-52-7	Benzaldehyde	29.58	1.25	2.50	5.00	
92-87-5	Benzidine	13.08	12.5	50.0	100	J
56-55-3	Benzo(a)anthracene	34.59	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	34.43	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	34.26	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	35.27	1.25	2.50	5.00	
65-85-0	Benzoic acid	14.13	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	37.67	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	36.42	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	31.22	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	40.91	1.25	2.50	5.00	
105-60-2	Caprolactam	5.425	1.25	2.50	5.00	
86-74-8	Carbazole	43.14	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	62.84	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.84	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	27.41	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	25.91	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	32.86	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	25.98	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	58.34	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	30.54	1.25	2.50	5.00	
218-01-9	Chrysene	35.66	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	34.93	1.25	2.50	5.00	
132-64-9	Dibenzofuran	29.89	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	39.34	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	30.50	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	62.05	1.25	2.50	5.00	
84-66-2	Diethylphthalate	36.21	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	59.10	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	34.83	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	73.67	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	66.84	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	34.62	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	31.24	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	38.58	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2G31012-BSD1 File ID: G31012L2.D

Sampled: Prepared: Analyzed: 08/13/12 16:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 2G31012 Sequence: 2H22708 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	37.54	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	37.49	1.25	2.50	5.00	
206-44-0	Fluoranthene	35.05	1.25	2.50	5.00	
86-73-7	Fluorene	31.45	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	30.95	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	15.77	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	16.33	1.25	5.00	10.0	
67-72-1	Hexachloroethane	15.72	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	35.27	1.25	2.50	5.00	
78-59-1	Isophorone	25.86	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	27.00	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	23.21	1.25	2.50	5.00	
95-48-7	2-Methylphenol	46.46	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	41.38	1.25	2.50	5.00	
91-20-3	Naphthalene	23.97	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	41.38	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.66	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	43.57	5.00	10.0	20.0	
98-95-3	Nitrobenzene	26.13	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	20.54	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	67.94	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	28.44	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	31.93	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	68.99	5.00	10.0	20.0	
85-01-8	Phenanthrene	34.96	1.25	2.50	5.00	
108-95-2	Phenol	16.73	1.25	2.50	5.00	
129-00-0	Pyrene	36.61	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	71.70	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	75.11	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	32.83	65.7	50 - 110	
2-Fluorophenol	100.0	28.11	28.1	20 - 110	
Nitrobenzene-d5	50.00	27.87	55.7	40 - 110	
Phenol-d6	100.0	17.26	17.3	0 - 110	
Terphenyl-d14	50.00	38.16	76.3	50 - 135	
2,4,6-Tribromophenol	100.0	75.88	75.9	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H03006-BLK1 File ID: H03006B1.D

Sampled: Prepared: Analyzed: 08/16/12 14:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H03006-BLK1 File ID: H03006B1.D

Sampled: Prepared: Analyzed: 08/16/12 14:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.28	68.6	50 - 110	
2-Fluorophenol	100.0	28.03	28.0	20 - 110	
Nitrobenzene-d5	50.00	30.65	61.3	40 - 110	
Phenol-d6	100.0	16.17	16.2	0 - 110	
Terphenyl-d14	50.00	37.98	76.0	50 - 135	
2,4,6-Tribromophenol	100.0	60.47	60.5	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H03006-BS1 File ID: H03006L1.D

Sampled: Prepared: Analyzed: 08/16/12 14:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	31.14	1.25	2.50	5.00	
208-96-8	Acenaphthylene	32.71	1.25	2.50	5.00	
98-86-2	Acetophenone	38.34	1.25	2.50	5.00	
120-12-7	Anthracene	35.53	1.25	2.50	5.00	
1912-24-9	Atrazine	33.92	1.25	2.50	5.00	
100-52-7	Benzaldehyde	35.64	1.25	2.50	5.00	
92-87-5	Benzidine	13.73	12.5	50.0	100	J
56-55-3	Benzo(a)anthracene	33.95	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	35.36	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	37.40	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	36.33	1.25	2.50	5.00	
65-85-0	Benzoic acid	14.55	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	36.10	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	37.95	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	31.99	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	42.19	1.25	2.50	5.00	X
105-60-2	Caprolactam	5.873	1.25	2.50	5.00	
86-74-8	Carbazole	44.40	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	64.63	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.89	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	35.59	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	31.48	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	42.99	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	30.62	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	62.88	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	32.04	1.25	2.50	5.00	
218-01-9	Chrysene	35.57	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	35.32	1.25	2.50	5.00	
132-64-9	Dibenzofuran	32.05	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	38.05	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	31.38	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	65.27	1.25	2.50	5.00	
84-66-2	Diethylphthalate	34.27	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	69.08	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	32.86	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	65.35	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	52.09	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	32.39	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	30.05	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	40.08	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H03006-BS1 File ID: H03006L1.D

Sampled: Prepared: Analyzed: 08/16/12 14:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	43.39	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	39.00	1.25	2.50	5.00	
206-44-0	Fluoranthene	35.34	1.25	2.50	5.00	
86-73-7	Fluorene	34.01	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	30.27	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	22.40	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	22.21	1.25	5.00	10.0	
67-72-1	Hexachloroethane	24.13	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	36.23	1.25	2.50	5.00	
78-59-1	Isophorone	30.31	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	36.29	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	28.81	1.25	2.50	5.00	
95-48-7	2-Methylphenol	52.87	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	46.71	1.25	2.50	5.00	
91-20-3	Naphthalene	31.75	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	38.26	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	35.84	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	44.77	5.00	10.0	20.0	
98-95-3	Nitrobenzene	30.60	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	19.51	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	70.79	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	29.56	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	37.22	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	59.78	5.00	10.0	20.0	
85-01-8	Phenanthrene	35.85	1.25	2.50	5.00	
108-95-2	Phenol	20.87	1.25	2.50	5.00	
129-00-0	Pyrene	36.83	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	68.36	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	70.81	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	35.50	71.0	50 - 110	
2-Fluorophenol	100.0	34.89	34.9	20 - 110	
Nitrobenzene-d5	50.00	32.60	65.2	40 - 110	
Phenol-d6	100.0	19.98	20.0	0 - 110	
Terphenyl-d14	50.00	39.51	79.0	50 - 135	
2,4,6-Tribromophenol	100.0	69.21	69.2	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_059

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

Matrix: | Laboratory ID: 2H03006-BSD1 | File ID: H03006L2.D

Sampled: | Prepared: | Analyzed: 08/16/12 14:56

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2H03006 | Sequence: 2H23001 | Calibration: 2156006 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	32.68	1.25	2.50	5.00	
208-96-8	Acenaphthylene	34.39	1.25	2.50	5.00	
98-86-2	Acetophenone	36.38	1.25	2.50	5.00	
120-12-7	Anthracene	37.49	1.25	2.50	5.00	
1912-24-9	Atrazine	38.86	1.25	2.50	5.00	
100-52-7	Benzaldehyde	34.09	1.25	2.50	5.00	
92-87-5	Benzidine	14.04	12.5	50.0	100	J
56-55-3	Benzo(a)anthracene	37.12	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	37.64	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	40.59	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	38.85	1.25	2.50	5.00	
65-85-0	Benzoic acid	13.97	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	38.06	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	37.89	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	35.55	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	44.97	1.25	2.50	5.00	X
105-60-2	Caprolactam	5.627	1.25	2.50	5.00	
86-74-8	Carbazole	46.20	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	64.16	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.14	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	31.72	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	30.27	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	40.49	1.25	2.50	5.00	X
91-58-7	2-Chloronaphthalene	30.98	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	56.92	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	33.36	1.25	2.50	5.00	
218-01-9	Chrysene	38.31	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	37.06	1.25	2.50	5.00	
132-64-9	Dibenzofuran	32.61	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	41.71	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	35.79	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	64.35	1.25	2.50	5.00	
84-66-2	Diethylphthalate	36.41	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	62.99	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	34.54	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	73.80	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	61.85	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	35.20	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	32.38	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	43.96	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Matrix: Laboratory ID: 2H03006-BSD1 File ID: H03006L2.D

Sampled: Prepared: Analyzed: 08/16/12 14:56

Solids: Preparation: EXT_3510 Dilution:

Batch: 2H03006 Sequence: 2H23001 Calibration: 2156006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	44.17	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	42.99	1.25	2.50	5.00	
206-44-0	Fluoranthene	38.60	1.25	2.50	5.00	
86-73-7	Fluorene	33.53	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	32.93	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	20.79	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	22.01	1.25	5.00	10.0	
67-72-1	Hexachloroethane	23.56	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	37.60	1.25	2.50	5.00	
78-59-1	Isophorone	29.75	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	34.09	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	27.95	1.25	2.50	5.00	
95-48-7	2-Methylphenol	47.05	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	42.19	1.25	2.50	5.00	
91-20-3	Naphthalene	31.36	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	41.79	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	36.53	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	47.69	5.00	10.0	20.0	
98-95-3	Nitrobenzene	28.17	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	20.80	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	72.43	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	31.88	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	36.05	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	69.76	5.00	10.0	20.0	
85-01-8	Phenanthrene	39.01	1.25	2.50	5.00	
108-95-2	Phenol	17.28	1.25	2.50	5.00	
129-00-0	Pyrene	40.77	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	71.20	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	72.84	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.05	72.1	50 - 110	
2-Fluorophenol	100.0	29.09	29.1	20 - 110	
Nitrobenzene-d5	50.00	31.89	63.8	40 - 110	
Phenol-d6	100.0	17.20	17.2	0 - 110	
Terphenyl-d14	50.00	42.35	84.7	50 - 135	
2,4,6-Tribromophenol	100.0	75.71	75.7	40 - 125	

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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
GW0661	07/31/12 11:56	08/01/12 08:30	08/01/12 14:04	1.05	7.00	08/14/12 00:38	12.44	40.00	
GW0678	07/31/12 12:25	08/01/12 08:30	08/01/12 14:04	1.03	7.00	08/14/12 01:05	12.46	40.00	
GW0679	07/31/12 12:25	08/01/12 08:30	08/01/12 14:04	1.03	7.00	08/14/12 01:32	12.48	40.00	
GW0680	07/31/12 10:15	08/01/12 08:30	08/01/12 14:04	1.12	7.00	08/14/12 01:59	12.50	40.00	
GW0697	07/30/12 15:22	08/01/12 08:30	08/01/12 14:04	1.90	7.00	08/14/12 18:38	13.19	40.00	
GW0698	07/30/12 12:05	08/01/12 08:30	08/01/12 14:04	2.04	7.00	08/14/12 19:05	13.21	40.00	
GW0723	07/30/12 15:51	08/01/12 08:30	08/01/12 14:04	1.88	7.00	08/14/12 19:32	13.23	40.00	
GW0724	07/30/12 13:42	08/01/12 08:30	08/01/12 14:04	1.97	7.00	08/14/12 19:59	13.25	40.00	
GW0725	07/30/12 13:42	08/01/12 08:30	08/01/12 14:04	1.97	7.00	08/14/12 20:26	13.27	40.00	
GW0726	07/30/12 11:36	08/01/12 08:30	08/01/12 14:04	2.06	7.00	08/14/12 20:53	13.28	40.00	
GW0631	08/02/12 11:05	08/03/12 08:20	08/03/12 13:15	1.05	7.00	08/16/12 16:47	13.15	40.00	
GW0639	08/02/12 13:09	08/03/12 08:20	08/03/12 13:15	0.96	7.00	08/16/12 17:15	13.17	40.00	
GW0649	08/02/12 12:15	08/03/12 08:20	08/03/12 13:15	1.00	7.00	08/16/12 17:42	13.19	40.00	
GW0650	08/02/12 14:37	08/03/12 08:20	08/03/12 13:15	0.90	7.00	08/16/12 18:10	13.20	40.00	
GW0662	08/01/12 09:46	08/03/12 08:20	08/03/12 13:15	2.10	7.00	08/16/12 18:37	13.22	40.00	
GW0663	07/31/12 14:29	08/03/12 08:20	08/03/12 13:15	2.91	7.00	08/16/12 19:05	13.24	40.00	
GW0677	07/31/12 14:45	08/03/12 08:20	08/03/12 13:15	2.90	7.00	08/16/12 19:32	13.26	40.00	
GW0710	08/01/12 14:59	08/03/12 08:20	08/03/12 13:15	1.89	7.00	08/16/12 19:59	13.28	40.00	
GW0710	08/01/12 14:59	08/03/12 08:20	08/03/12 13:15	1.89	7.00	08/17/12 20:12	14.29	40.00	
GW0711	08/01/12 12:50	08/03/12 08:20	08/03/12 13:15	1.98	7.00	08/16/12 20:27	13.30	40.00	
GW0712	08/01/12 14:52	08/03/12 08:20	08/03/12 13:15	1.89	7.00	08/16/12 20:54	13.32	40.00	

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21404	Instrument:	GL-GCFID2
Calibration:	2214001		

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

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22010	Instrument:	GL-GCFID2
Calibration:	2214001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22010-CCV1	003F0301.D	08/05/12 16:14
Blank	2H02009-BLK1	004F0401.D	08/05/12 16:47
LCS	2H02009-BS1	005F0501.D	08/05/12 17:21
LCS Dup	2H02009-BSD1	006F0601.D	08/05/12 17:54
GW0661	1208005-01	007F0701.D	08/05/12 18:27
GW0678	1208005-03	008F0801.D	08/05/12 19:01
GW0679	1208005-05	009F0901.D	08/05/12 19:34
GW0680	1208005-07	010F1001.D	08/05/12 20:07
GW0697	1208005-09	011F1101.D	08/05/12 20:41
GW0698	1208005-11	012F1201.D	08/05/12 21:14
GW0723	1208005-13	013F1301.D	08/05/12 21:47
GW0724	1208005-15	014F1401.D	08/05/12 22:21
GW0725	1208005-17	015F1501.D	08/05/12 22:54
GW0726	1208005-19	016F1601.D	08/05/12 23:27
Calibration Check	2H22010-CCV2	017F1701.D	08/06/12 08:20

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22305	Instrument:	GL-GCFID2
Calibration:	2214001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22305-CCV1	003F0301.D	08/09/12 11:35
Blank	2H06010-BLK1	007F0701.D	08/09/12 13:49
LCS	2H06010-BS1	008F0801.D	08/09/12 14:22
LCS Dup	2H06010-BSD1	009F0901.D	08/09/12 14:56
GW0631	1208028-01	010F1001.D	08/09/12 15:29
GW0639	1208028-03	011F1101.D	08/09/12 16:02
GW0649	1208028-05	012F1201.D	08/09/12 16:36
GW0650	1208028-07	013F1301.D	08/09/12 17:09
GW0662	1208028-09	014F1401.D	08/09/12 17:42
GW0663	1208028-11	015F1501.D	08/09/12 18:15
GW0677	1208028-13	016F1601.D	08/09/12 18:48
Calibration Check	2H22305-CCV2	019F1901.D	08/09/12 20:28
GW0712	1208028-19	020F2001.D	08/09/12 21:01
Calibration Check	2H22305-CCV3	021F2101.D	08/09/12 21:35

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22707	Instrument:	GL-GCFID2
Calibration:	2214001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22707-CCV1	003F0301.D	08/10/12 14:34
GW0710	1208028-15RE1	004F0401.D	08/10/12 15:07
GW0711	1208028-17RE1	005F0501.D	08/10/12 16:23
Calibration Check	2H22707-CCV2	006F0601.D	08/10/12 17:36

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	007F0701.D
Sampled:	07/31/12 11:56	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 18:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01630	86.4	30 - 140	

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	008F0801.D
Sampled:	07/31/12 12:25	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 19:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01707	88.8	30 - 140	

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	009F0901.D
Sampled:	07/31/12 12:25	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 19:34
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01554	82.4	30 - 140	

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	010F1001.D
Sampled:	07/31/12 10:15	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 20:07
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01674	88.7	30 - 140	

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	011F1101.D
Sampled:	07/30/12 15:22	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 20:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	3.93	0.0962	0.192	0.385	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01687	87.7	30 - 140	

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	012F1201.D
Sampled:	07/30/12 12:05	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 21:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01663	83.1	30 - 140	

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	013F1301.D
Sampled:	07/30/12 15:51	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 21:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.740	0.0962	0.192	0.385	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01555	80.9	30 - 140	

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	014F1401.D
Sampled:	07/30/12 13:42	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 22:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	2.06	0.0962	0.192	0.385	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01658	86.2	30 - 140	

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	015F1501.D
Sampled:	07/30/12 13:42	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 22:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.73	0.0943	0.189	0.377	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01400	74.2	30 - 140	

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	016F1601.D
Sampled:	07/30/12 11:36	Prepared:	08/02/12 09:13	Analyzed:	08/05/12 23:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H02009 Sequence: 2H22010 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01593	84.4	30 - 140	

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	010F1001.D
Sampled:	08/02/12 11:05	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 15:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01543	80.2	30 - 140	

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	011F1101.D
Sampled:	08/02/12 13:09	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 16:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01676	83.8	30 - 140	

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	012F1201.D
Sampled:	08/02/12 12:15	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 16:36
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01592	79.6	30 - 140	

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	013F1301.D
Sampled:	08/02/12 14:37	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 17:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.125	0.111	0.222	0.444	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02222	0.01844	83.0	30 - 140	

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	014F1401.D
Sampled:	08/01/12 09:46	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 17:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01630	84.7	30 - 140	

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	015F1501.D
Sampled:	07/31/12 14:29	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 18:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01375	72.9	30 - 140	

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	016F1601.D
Sampled:	07/31/12 14:45	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 18:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01575	81.9	30 - 140	

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15RE1	File ID:	004F0401.D
Sampled:	08/01/12 14:59	Prepared:	08/06/12 12:48	Analyzed:	08/10/12 15:07
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 2H06010 Sequence: 2H22707 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	76.5	1.96	3.92	7.84	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.05901	301	30 - 140	*

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17RE1	File ID:	005F0501.D
Sampled:	08/01/12 12:50	Prepared:	08/06/12 12:48	Analyzed:	08/10/12 16:23
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 2H06010 Sequence: 2H22707 Calibration: 2214001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	15.5	0.962	1.92	3.85	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01380	71.8	30 - 140	

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	020F2001.D
Sampled:	08/01/12 14:52	Prepared:	08/06/12 12:48	Analyzed:	08/09/12 21:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2H06010 Sequence: 2H22305 Calibration: 2214001 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01626	81.3	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H02009	Laboratory ID:	2H02009-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	0.8886	88.9	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	1.199	120	29.7	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H06010	Laboratory ID:	2H06010-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	0.7948	79.5	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	0.8553	85.5	7.34	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H02009 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/02/12 09:13	1,060.00	1.00
GW0678	1208005-03	08/02/12 09:13	1,040.00	1.00
GW0679	1208005-05	08/02/12 09:13	1,060.00	1.00
GW0680	1208005-07	08/02/12 09:13	1,060.00	1.00
GW0697	1208005-09	08/02/12 09:13	1,040.00	1.00
GW0698	1208005-11	08/02/12 09:13	1,000.00	1.00
GW0723	1208005-13	08/02/12 09:13	1,040.00	1.00
GW0724	1208005-15	08/02/12 09:13	1,040.00	1.00
GW0725	1208005-17	08/02/12 09:13	1,060.00	1.00
GW0726	1208005-19	08/02/12 09:13	1,060.00	1.00
Blank	2H02009-BLK1	08/02/12 09:13	1,000.00	1.00
LCS	2H02009-BS1	08/02/12 09:13	1,000.00	1.00
LCS Dup	2H02009-BSD1	08/02/12 09:13	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H06010 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/06/12 12:48	1,040.00	1.00
GW0639	1208028-03	08/06/12 12:48	1,000.00	1.00
GW0649	1208028-05	08/06/12 12:48	1,000.00	1.00
GW0650	1208028-07	08/06/12 12:48	900.00	1.00
GW0662	1208028-09	08/06/12 12:48	1,040.00	1.00
GW0663	1208028-11	08/06/12 12:48	1,060.00	1.00
GW0677	1208028-13	08/06/12 12:48	1,040.00	1.00
GW0710	1208028-15RE1	08/06/12 12:48	1,020.00	1.00
GW0711	1208028-17RE1	08/06/12 12:48	1,040.00	1.00
GW0712	1208028-19	08/06/12 12:48	1,000.00	1.00
Blank	2H06010-BLK1	08/06/12 12:48	1,000.00	1.00
LCS	2H06010-BS1	08/06/12 12:48	1,000.00	1.00
LCS Dup	2H06010-BSD1	08/06/12 12:48	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21404	Instrument:	GL-GCFID2
Calibration:	2214001		

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

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2214001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	7/31/12_16:00	7/31/12_18:48

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

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2214001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	7/31/12 16:00	7/31/12 18:48

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

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	008F0801.D	Calibration Date:	07/31/12 11:55
Sequence:	2H21404	Injection Date:	07/31/12
Lab Sample ID:	2H21404-ICV1	Injection Time:	19:22

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

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22010	Injection Date:	08/05/12
Lab Sample ID:	2H22010-CCV1	Injection Time:	16:14

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1149	1019.228	1163.413		14.9	20
o-Terphenyl	A	50.00	54.84	1357.593	1488.9		9.7	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	017F1701.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22010	Injection Date:	08/06/12
Lab Sample ID:	2H22010-CCV2	Injection Time:	08:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1264	1019.228	1287.886		26.4	20 *
o-Terphenyl	A	50.00	54.18	1357.593	1471.14		8.4	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22305	Injection Date:	08/09/12
Lab Sample ID:	2H22305-CCV1	Injection Time:	11:35

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1162	1019.228	1176.798		16.2	20
o-Terphenyl	A	50.00	51.02	1357.593	1385.32		2.0	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	019F1901.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22305	Injection Date:	08/09/12
Lab Sample ID:	2H22305-CCV2	Injection Time:	20:28

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1171	1019.228	1186.496		17.1	20
o-Terphenyl	A	50.00	53.42	1357.593	1450.32		6.8	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	021F2101.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22305	Injection Date:	08/09/12
Lab Sample ID:	2H22305-CCV3	Injection Time:	21:35

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1026	1019.228	1030.689		2.6	20
o-Terphenyl	A	50.00	46.91	1357.593	1273.78		-6.2	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22707	Injection Date:	08/10/12
Lab Sample ID:	2H22707-CCV1	Injection Time:	14:34

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1167	1019.228	1182.501		16.7	20
o-Terphenyl	A	50.00	52.24	1357.593	1418.56		4.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2214001
Lab File ID:	006F0601.D	Calibration Date:	07/31/12 11:55
Sequence:	2H22707	Injection Date:	08/10/12
Lab Sample ID:	2H22707-CCV2	Injection Time:	17:36

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1089	1019.228	1098.344		8.9	20
o-Terphenyl	A	50.00	47.10	1357.593	1278.82		-5.8	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22010	Instrument:	GL-GCFID2
		Calibration:	2214001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22010-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 08/05/12 16:14		
o-Terphenyl	50.00	110	80 - 120	11.12	11.12	0.0000	+/-0.050	
Blank (2H02009-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/05/12 16:47		
o-Terphenyl	0.02000	86.7	30 - 140	11.116	11.12	-0.0040	+/-0.050	
LCS (2H02009-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/05/12 17:21		
o-Terphenyl	0.02000	81.9	30 - 140	11.11	11.12	-0.0100	+/-0.050	
LCS Dup (2H02009-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 08/05/12 17:54		
o-Terphenyl	0.02000	107	30 - 140	11.106	11.12	-0.0140	+/-0.050	
GW0661 (1208005-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 08/05/12 18:27		
o-Terphenyl	0.01887	86.4	30 - 140	11.11	11.12	-0.0100	+/-0.050	
GW0678 (1208005-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 08/05/12 19:01		
o-Terphenyl	0.01923	88.8	30 - 140	11.103	11.12	-0.0170	+/-0.050	
GW0679 (1208005-05) mg/L				Lab File ID: 009F0901.D		Analyzed: 08/05/12 19:34		
o-Terphenyl	0.01887	82.4	30 - 140	11.113	11.12	-0.0070	+/-0.050	
GW0680 (1208005-07) mg/L				Lab File ID: 010F1001.D		Analyzed: 08/05/12 20:07		
o-Terphenyl	0.01887	88.7	30 - 140	11.11	11.12	-0.0100	+/-0.050	
GW0697 (1208005-09) mg/L				Lab File ID: 011F1101.D		Analyzed: 08/05/12 20:41		
o-Terphenyl	0.01923	87.7	30 - 140	11.11	11.12	-0.0100	+/-0.050	
GW0698 (1208005-11) mg/L				Lab File ID: 012F1201.D		Analyzed: 08/05/12 21:14		
o-Terphenyl	0.02000	83.1	30 - 140	11.096	11.12	-0.0240	+/-0.050	
GW0723 (1208005-13) mg/L				Lab File ID: 013F1301.D		Analyzed: 08/05/12 21:47		
o-Terphenyl	0.01923	80.9	30 - 140	11.096	11.12	-0.0240	+/-0.050	
GW0724 (1208005-15) mg/L				Lab File ID: 014F1401.D		Analyzed: 08/05/12 22:21		
o-Terphenyl	0.01923	86.2	30 - 140	11.113	11.12	-0.0070	+/-0.050	
GW0725 (1208005-17) mg/L				Lab File ID: 015F1501.D		Analyzed: 08/05/12 22:54		
o-Terphenyl	0.01887	74.2	30 - 140	11.1	11.12	-0.0200	+/-0.050	
GW0726 (1208005-19) mg/L				Lab File ID: 016F1601.D		Analyzed: 08/05/12 23:27		
o-Terphenyl	0.01887	84.4	30 - 140	11.106	11.12	-0.0140	+/-0.050	
Calibration Check (2H22010-CCV2) mg/L				Lab File ID: 017F1701.D		Analyzed: 08/06/12 08:20		
o-Terphenyl	50.00	108	80 - 120	11.236	11.12	0.1160	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22305	Instrument:	GL-GCFID2
		Calibration:	2214001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22305-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 08/09/12 11:35		
o-Terphenyl	50.00	102	80 - 120	11.156	11.156	0.0000	+/-0.050	
Blank (2H06010-BLK1) mg/L				Lab File ID: 007F0701.D		Analyzed: 08/09/12 13:49		
o-Terphenyl	0.02000	77.2	30 - 140	11.16	11.156	0.0040	+/-0.050	
LCS (2H06010-BS1) mg/L				Lab File ID: 008F0801.D		Analyzed: 08/09/12 14:22		
o-Terphenyl	0.02000	76.6	30 - 140	11.163	11.156	0.0070	+/-0.050	
LCS Dup (2H06010-BSD1) mg/L				Lab File ID: 009F0901.D		Analyzed: 08/09/12 14:56		
o-Terphenyl	0.02000	77.6	30 - 140	11.156	11.156	0.0000	+/-0.050	
GW0631 (1208028-01) mg/L				Lab File ID: 010F1001.D		Analyzed: 08/09/12 15:29		
o-Terphenyl	0.01923	80.2	30 - 140	11.153	11.156	-0.0030	+/-0.050	
GW0639 (1208028-03) mg/L				Lab File ID: 011F1101.D		Analyzed: 08/09/12 16:02		
o-Terphenyl	0.02000	83.8	30 - 140	11.153	11.156	-0.0030	+/-0.050	
GW0649 (1208028-05) mg/L				Lab File ID: 012F1201.D		Analyzed: 08/09/12 16:36		
o-Terphenyl	0.02000	79.6	30 - 140	11.146	11.156	-0.0100	+/-0.050	
GW0650 (1208028-07) mg/L				Lab File ID: 013F1301.D		Analyzed: 08/09/12 17:09		
o-Terphenyl	0.02222	83.0	30 - 140	11.13	11.156	-0.0260	+/-0.050	
GW0662 (1208028-09) mg/L				Lab File ID: 014F1401.D		Analyzed: 08/09/12 17:42		
o-Terphenyl	0.01923	84.7	30 - 140	11.13	11.156	-0.0260	+/-0.050	
GW0663 (1208028-11) mg/L				Lab File ID: 015F1501.D		Analyzed: 08/09/12 18:15		
o-Terphenyl	0.01887	72.9	30 - 140	11.123	11.156	-0.0330	+/-0.050	
GW0677 (1208028-13) mg/L				Lab File ID: 016F1601.D		Analyzed: 08/09/12 18:48		
o-Terphenyl	0.01923	81.9	30 - 140	11.123	11.156	-0.0330	+/-0.050	
Calibration Check (2H22305-CCV2) mg/L				Lab File ID: 019F1901.D		Analyzed: 08/09/12 20:28		
o-Terphenyl	50.00	107	80 - 120	11.12	11.156	-0.0360	+/-0.050	
GW0712 (1208028-19) mg/L				Lab File ID: 020F2001.D		Analyzed: 08/09/12 21:01		
o-Terphenyl	0.02000	81.3	30 - 140	11.123	11.156	-0.0330	+/-0.050	
Calibration Check (2H22305-CCV3) mg/L				Lab File ID: 021F2101.D		Analyzed: 08/09/12 21:35		
o-Terphenyl	50.00	93.8	80 - 120	11.133	11.156	-0.0230	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22707	Instrument:	GL-GCFID2
		Calibration:	2214001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22707-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 08/10/12 14:34		
o-Terphenyl	50.00	104	80 - 120	11.16	11.16	0.0000	+/-0.050	
GW0710 (1208028-15RE1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/10/12 15:07		
o-Terphenyl	0.01961	301	30 - 140	11.153	11.16	-0.0070	+/-0.050	*
GW0711 (1208028-17RE1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/10/12 16:23		
o-Terphenyl	0.01923	71.8	30 - 140	11.213	11.16	0.0530	+/-0.050	*
Calibration Check (2H22707-CCV2) mg/L				Lab File ID: 006F0601.D		Analyzed: 08/10/12 17:36		
o-Terphenyl	50.00	94.2	80 - 120	11.206	11.16	0.0460	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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
GW0661	07/31/12 11:56	08/01/12 08:30	08/02/12 09:13	1.85	7.00	08/05/12 18:27	3.38	40.00	
GW0678	07/31/12 12:25	08/01/12 08:30	08/02/12 09:13	1.83	7.00	08/05/12 19:01	3.41	40.00	
GW0679	07/31/12 12:25	08/01/12 08:30	08/02/12 09:13	1.83	7.00	08/05/12 19:34	3.43	40.00	
GW0680	07/31/12 10:15	08/01/12 08:30	08/02/12 09:13	1.92	7.00	08/05/12 20:07	3.45	40.00	
GW0697	07/30/12 15:22	08/01/12 08:30	08/02/12 09:13	2.70	7.00	08/05/12 20:41	3.48	40.00	
GW0698	07/30/12 12:05	08/01/12 08:30	08/02/12 09:13	2.84	7.00	08/05/12 21:14	3.50	40.00	
GW0723	07/30/12 15:51	08/01/12 08:30	08/02/12 09:13	2.68	7.00	08/05/12 21:47	3.52	40.00	
GW0724	07/30/12 13:42	08/01/12 08:30	08/02/12 09:13	2.77	7.00	08/05/12 22:21	3.55	40.00	
GW0725	07/30/12 13:42	08/01/12 08:30	08/02/12 09:13	2.77	7.00	08/05/12 22:54	3.57	40.00	
GW0726	07/30/12 11:36	08/01/12 08:30	08/02/12 09:13	2.86	7.00	08/05/12 23:27	3.59	40.00	
GW0631	08/02/12 11:05	08/03/12 08:20	08/06/12 12:48	4.03	7.00	08/09/12 15:29	3.11	40.00	
GW0639	08/02/12 13:09	08/03/12 08:20	08/06/12 12:48	3.94	7.00	08/09/12 16:02	3.13	40.00	
GW0649	08/02/12 12:15	08/03/12 08:20	08/06/12 12:48	3.98	7.00	08/09/12 16:36	3.16	40.00	
GW0650	08/02/12 14:37	08/03/12 08:20	08/06/12 12:48	3.88	7.00	08/09/12 17:09	3.18	40.00	
GW0662	08/01/12 09:46	08/03/12 08:20	08/06/12 12:48	5.08	7.00	08/09/12 17:42	3.20	40.00	
GW0663	07/31/12 14:29	08/03/12 08:20	08/06/12 12:48	5.89	7.00	08/09/12 18:15	3.23	40.00	
GW0677	07/31/12 14:45	08/03/12 08:20	08/06/12 12:48	5.88	7.00	08/09/12 18:48	3.25	40.00	
GW0710	08/01/12 14:59	08/03/12 08:20	08/06/12 12:48	4.87	7.00	08/10/12 15:07	4.10	40.00	
GW0711	08/01/12 12:50	08/03/12 08:20	08/06/12 12:48	4.96	7.00	08/10/12 16:23	4.15	40.00	
GW0712	08/01/12 14:52	08/03/12 08:20	08/06/12 12:48	4.87	7.00	08/09/12 21:01	3.34	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H02009-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	08/05/12 16:47
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2H02009	Sequence:	2H22010	Calibration:	2214001	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01735	86.7	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H02009-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	08/05/12 17:21
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2H02009	Sequence:	2H22010	Calibration:	2214001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8886	0.100	0.200	0.400	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01638	81.9	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H02009-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	08/05/12 17:54
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2H02009	Sequence:	2H22010	Calibration:	2214001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	1.199	0.100	0.200	0.400	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02136	107	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H06010-BLK1	File ID:	007F0701.D
Sampled:		Prepared:		Analyzed:	08/09/12 13:49
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2H06010	Sequence:	2H22305	Calibration:	2214001	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01543	77.2	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H06010-BS1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	08/09/12 14:22
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2H06010	Sequence:	2H22305	Calibration:	2214001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7948	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01533	76.6	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H06010-BSD1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	08/09/12 14:56
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2H06010	Sequence:	2H22305	Calibration:	2214001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8553	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01553	77.6	30 - 140	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21611-CAL1	003F0301.D	07/31/12 15:05
Cal Standard	2H21611-CAL2	004F0401.D	07/31/12 15:45
Cal Standard	2H21611-CAL3	005F0501.D	07/31/12 16:25
Cal Standard	2H21611-CAL4	006F0601.D	07/31/12 17:05
Cal Standard	2H21611-CAL5	007F0701.D	07/31/12 17:44
Cal Standard	2H21611-CAL6	008F0801.D	07/31/12 18:24
Initial Cal Check	2H21611-ICV1	003F0301.D	08/02/12 14:13

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22012	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22012-CCV1	003F0301.D	08/03/12 12:56
LCS	2H03008-BS1	004F0401.D	08/03/12 13:36
LCS Dup	2H03008-BSD1	005F0501.D	08/03/12 14:16
Blank	2H03008-BLK1	006F0601.D	08/03/12 14:57
GW0661	1208005-01	007F0701.D	08/03/12 15:37
GW0678	1208005-03	008F0801.D	08/03/12 16:18
GW0679	1208005-05	009F0901.D	08/03/12 16:58
GW0680	1208005-07	010F1001.D	08/03/12 17:37
GW0697	1208005-09	011F1101.D	08/03/12 18:17
GW0698	1208005-11	012F1201.D	08/03/12 18:56
GW0723	1208005-13	013F1301.D	08/03/12 19:36
GW0724	1208005-15	014F1401.D	08/03/12 20:15
GW0725	1208005-17	015F1501.D	08/03/12 20:55
GW0726	1208005-19	016F1601.D	08/03/12 21:34
Calibration Check	2H22012-CCV2	017F1701.D	08/03/12 22:13

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22710	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22710-CCV1	003F0301.D	08/10/12 16:42
LCS	2H09011-BS1	004F0401.D	08/10/12 17:21
Blank	2H09011-BLK1	005F0501.D	08/10/12 17:59
GW0631	1208028-01	006F0601.D	08/10/12 18:37
GW0631	2H09011-MS1	007F0701.D	08/10/12 19:15
GW0631	2H09011-MSD1	008F0801.D	08/10/12 19:54
GW0639	1208028-03	009F0901.D	08/10/12 20:32
GW0649	1208028-05	010F1001.D	08/10/12 21:11
GW0650	1208028-07	011F1101.D	08/10/12 21:49
GW0662	1208028-09	012F1201.D	08/10/12 22:27
GW0663	1208028-11	013F1301.D	08/10/12 23:05
GW0677	1208028-13	014F1401.D	08/10/12 23:44
GW0712	1208028-19	015F1501.D	08/11/12 00:22
Calibration Check	2H22710-CCV2	016F1601.D	08/11/12 01:00
Calibration Check	2H22710-CCV3	026F2601.D	08/11/12 07:22
GW0710	1208028-15	027F2701.D	08/11/12 08:01
GW0711	1208028-17	028F2801.D	08/11/12 08:40
Calibration Check	2H22710-CCV4	030F3001.D	08/11/12 09:57

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	007F0701.D
Sampled:	07/31/12 11:56	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 15:37
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 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	0.05976	120	50 - 150	

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	008F0801.D
Sampled:	07/31/12 12:25	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 16:18
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 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	0.06139	123	50 - 150	

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	009F0901.D
Sampled:	07/31/12 12:25	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 16:58
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 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	0.05787	116	50 - 150	

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	010F1001.D
Sampled:	07/31/12 10:15	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 17:37
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 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	0.05636	113	50 - 150	

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	011F1101.D
Sampled:	07/30/12 15:22	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 18:17
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.77	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05511	110	50 - 150	

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	012F1201.D
Sampled:	07/30/12 12:05	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 18:56
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 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	0.05553	111	50 - 150	

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	013F1301.D
Sampled:	07/30/12 15:51	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 19:36
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.487	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05742	115	50 - 150	

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	014F1401.D
Sampled:	07/30/12 13:42	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 20:15
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.63	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05770	115	50 - 150	

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	015F1501.D
Sampled:	07/30/12 13:42	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 20:55
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.72	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05563	111	50 - 150	

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	016F1601.D
Sampled:	07/30/12 11:36	Prepared:	08/03/12 09:41	Analyzed:	08/03/12 21:34
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H03008 Sequence: 2H22012 Calibration: 2216001 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	0.05659	113	50 - 150	

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	006F0601.D
Sampled:	08/02/12 11:05	Prepared:	08/10/12 18:37	Analyzed:	08/10/12 18:37
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.05724	114	50 - 150	

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	009F0901.D
Sampled:	08/02/12 13:09	Prepared:	08/10/12 20:32	Analyzed:	08/10/12 20:32
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.06627	133	50 - 150	

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	010F1001.D
Sampled:	08/02/12 12:15	Prepared:	08/10/12 21:11	Analyzed:	08/10/12 21:11
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.05936	119	50 - 150	

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	011F1101.D
Sampled:	08/02/12 14:37	Prepared:	08/10/12 21:49	Analyzed:	08/10/12 21:49
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.06558	131	50 - 150	

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	012F1201.D
Sampled:	08/01/12 09:46	Prepared:	08/10/12 22:27	Analyzed:	08/10/12 22:27
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.06102	122	50 - 150	

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	013F1301.D
Sampled:	07/31/12 14:29	Prepared:	08/10/12 23:05	Analyzed:	08/10/12 23:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.05890	118	50 - 150	

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	014F1401.D
Sampled:	07/31/12 14:45	Prepared:	08/10/12 23:44	Analyzed:	08/10/12 23:44
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.06187	124	50 - 150	

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15	File ID:	027F2701.D
Sampled:	08/01/12 14:59	Prepared:	08/11/12 08:01	Analyzed:	08/11/12 08:01
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	26.2	1.25	2.50	3.75	X, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05141	103	50 - 150	

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17	File ID:	028F2801.D
Sampled:	08/01/12 12:50	Prepared:	08/11/12 08:40	Analyzed:	08/11/12 08:40
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	27.1	0.500	1.00	1.50	X, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05489	110	50 - 150	

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	015F1501.D
Sampled:	08/01/12 14:52	Prepared:	08/11/12 00:22	Analyzed:	08/11/12 00:22
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2H09011 Sequence: 2H22710 Calibration: 2216001 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	0.06176	124	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03008	Laboratory ID:	2H03008-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	0.5252	105	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5217	104	0.674	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H09011	Laboratory ID:	2H09011-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	0.5221	104	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0631

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H09011

% Solids:

Source Sample Name: **1208028-01**

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	0.4909	98.2		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	0.5179	104	5.35		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H03008 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/03/12 09:41	5.00	5.00
GW0678	1208005-03	08/03/12 09:41	5.00	5.00
GW0679	1208005-05	08/03/12 09:41	5.00	5.00
GW0680	1208005-07	08/03/12 09:41	5.00	5.00
GW0697	1208005-09	08/03/12 09:41	5.00	5.00
GW0698	1208005-11	08/03/12 09:41	5.00	5.00
GW0723	1208005-13	08/03/12 09:41	5.00	5.00
GW0724	1208005-15	08/03/12 09:41	5.00	5.00
GW0725	1208005-17	08/03/12 09:41	5.00	5.00
GW0726	1208005-19	08/03/12 09:41	5.00	5.00
Blank	2H03008-BLK1	08/03/12 09:41	5.00	5.00
LCS	2H03008-BS1	08/03/12 09:41	5.00	5.00
LCS Dup	2H03008-BSD1	08/03/12 09:41	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H09011 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/10/12 18:37	5.00	5.00
GW0639	1208028-03	08/10/12 20:32	5.00	5.00
GW0649	1208028-05	08/10/12 21:11	5.00	5.00
GW0650	1208028-07	08/10/12 21:49	5.00	5.00
GW0662	1208028-09	08/10/12 22:27	5.00	5.00
GW0663	1208028-11	08/10/12 23:05	5.00	5.00
GW0677	1208028-13	08/10/12 23:44	5.00	5.00
GW0710	1208028-15	08/11/12 08:01	5.00	5.00
GW0711	1208028-17	08/11/12 08:40	5.00	5.00
GW0712	1208028-19	08/11/12 00:22	5.00	5.00
Blank	2H09011-BLK1	08/10/12 17:59	5.00	5.00
LCS	2H09011-BS1	08/10/12 17:21	5.00	5.00
GW0631	2H09011-MS1	08/10/12 19:15	5.00	5.00
GW0631	2H09011-MSD1	08/10/12 19:54	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12H0009	GRO Cal 0.1ppm	2H21611-CAL1	003F0301.D	07/31/12 15:05
12H0010	GRO Cal 0.2ppm	2H21611-CAL2	004F0401.D	07/31/12 15:45
12H0011	GRO Cal 0.5ppm	2H21611-CAL3	005F0501.D	07/31/12 16:25
12H0012	GRO Cal 1.0ppm	2H21611-CAL4	006F0601.D	07/31/12 17:05
12H0013	GRO Cal 2.0ppm	2H21611-CAL5	007F0701.D	07/31/12 17:44
12H0014	GRO Cal 5.0ppm	2H21611-CAL6	008F0801.D	07/31/12 18:24

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12_15:05	7/31/12_18:24

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	2233630	0.2	1477410	0.5	1120412	1	946984	2	1011274	5	961363.4
Bromofluorobenzene	0.01	1563200	0.02	941550	0.05	566820	0.1	481890	0.2	490520	0.5	412342

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12 15:05	7/31/12 18:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1291846	38.82256	7.807	0.017641	0.9992676		0.995	
Bromofluorobenzene	742720.3	59.74288	20.3135	9.003825E-03	0.9969704		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2H21611	Injection Date:	08/02/12
Lab Sample ID:	2H21611-ICV1	Injection Time:	14:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4958	1291846	1119582		-0.8	20
Bromofluorobenzene	L	0.05000	0.04848	742720.3	607700		-3.0	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2H22012	Injection Date:	08/03/12
Lab Sample ID:	2H22012-CCV1	Injection Time:	12:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4982	1291846	1124232		-0.4	20
Bromofluorobenzene	L	0.05000	0.04950	742720.3	615780		-1.0	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	017F1701.D	Calibration Date:	07/31/12 15:05
Sequence:	2H22012	Injection Date:	08/03/12
Lab Sample ID:	2H22012-CCV2	Injection Time:	22:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4232	1291846	982564		-15.4	20
Bromofluorobenzene	L	0.05000	0.04872	742720.3	609620		-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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2H22710	Injection Date:	08/10/12
Lab Sample ID:	2H22710-CCV1	Injection Time:	16:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5272	1291846	1178926		5.4	20
Bromofluorobenzene	L	0.05000	0.05271	742720.3	641180		5.4	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	016F1601.D	Calibration Date:	07/31/12 15:05
Sequence:	2H22710	Injection Date:	08/11/12
Lab Sample ID:	2H22710-CCV2	Injection Time:	01:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4255	1291846	986936		-14.9	20
Bromofluorobenzene	L	0.05000	0.04857	742720.3	608400		-2.9	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	026F2601.D	Calibration Date:	07/31/12 15:05
Sequence:	2H22710	Injection Date:	08/11/12
Lab Sample ID:	2H22710-CCV3	Injection Time:	07:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4640	1291846	1059616		-7.2	20
Bromofluorobenzene	L	0.05000	0.04854	742720.3	608200		-2.9	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	030F3001.D	Calibration Date:	07/31/12 15:05
Sequence:	2H22710	Injection Date:	08/11/12
Lab Sample ID:	2H22710-CCV4	Injection Time:	09:57

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.6406	1291846	1392846		28.1	20 *
Bromofluorobenzene	L	0.05000	0.04723	742720.3	597840		-5.5	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22012	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22012-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 08/03/12 12:56		
Bromofluorobenzene	0.05000	99.0	80 - 120	20.313	20.313	0.0000	+/-0.210	
LCS (2H03008-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/03/12 13:36		
Bromofluorobenzene	0.05000	97.0	50 - 150	20.313	20.313	0.0000	+/-0.210	
LCS Dup (2H03008-BSD1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/03/12 14:16		
Bromofluorobenzene	0.05000	106	50 - 150	20.31	20.313	-0.0030	+/-0.210	
Blank (2H03008-BLK1) mg/L				Lab File ID: 006F0601.D		Analyzed: 08/03/12 14:57		
Bromofluorobenzene	0.05000	126	50 - 150	20.306	20.313	-0.0070	+/-0.210	
GW0661 (1208005-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 08/03/12 15:37		
Bromofluorobenzene	0.05000	120	50 - 150	20.306	20.313	-0.0070	+/-0.210	
GW0678 (1208005-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 08/03/12 16:18		
Bromofluorobenzene	0.05000	123	50 - 150	20.306	20.313	-0.0070	+/-0.210	
GW0679 (1208005-05) mg/L				Lab File ID: 009F0901.D		Analyzed: 08/03/12 16:58		
Bromofluorobenzene	0.05000	116	50 - 150	20.306	20.313	-0.0070	+/-0.210	
GW0680 (1208005-07) mg/L				Lab File ID: 010F1001.D		Analyzed: 08/03/12 17:37		
Bromofluorobenzene	0.05000	113	50 - 150	20.306	20.313	-0.0070	+/-0.210	
GW0697 (1208005-09) mg/L				Lab File ID: 011F1101.D		Analyzed: 08/03/12 18:17		
Bromofluorobenzene	0.05000	110	50 - 150	20.31	20.313	-0.0030	+/-0.210	
GW0698 (1208005-11) mg/L				Lab File ID: 012F1201.D		Analyzed: 08/03/12 18:56		
Bromofluorobenzene	0.05000	111	50 - 150	20.313	20.313	0.0000	+/-0.210	
GW0723 (1208005-13) mg/L				Lab File ID: 013F1301.D		Analyzed: 08/03/12 19:36		
Bromofluorobenzene	0.05000	115	50 - 150	20.313	20.313	0.0000	+/-0.210	
GW0724 (1208005-15) mg/L				Lab File ID: 014F1401.D		Analyzed: 08/03/12 20:15		
Bromofluorobenzene	0.05000	115	50 - 150	20.31	20.313	-0.0030	+/-0.210	
GW0725 (1208005-17) mg/L				Lab File ID: 015F1501.D		Analyzed: 08/03/12 20:55		
Bromofluorobenzene	0.05000	111	50 - 150	20.316	20.313	0.0030	+/-0.210	
GW0726 (1208005-19) mg/L				Lab File ID: 016F1601.D		Analyzed: 08/03/12 21:34		
Bromofluorobenzene	0.05000	113	50 - 150	20.316	20.313	0.0030	+/-0.210	
Calibration Check (2H22012-CCV2) ug/mL				Lab File ID: 017F1701.D		Analyzed: 08/03/12 22:13		
Bromofluorobenzene	0.05000	97.4	80 - 120	20.316	20.313	0.0030	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22710	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22710-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 08/10/12 16:42		
Bromofluorobenzene	0.05000	105	80 - 120	20.326	20.326	0.0000	+/-0.210	
LCS (2H09011-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/10/12 17:21		
Bromofluorobenzene	0.05000	122	50 - 150	20.33	20.326	0.0040	+/-0.210	
Blank (2H09011-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/10/12 17:59		
Bromofluorobenzene	0.05000	128	50 - 150	20.33	20.326	0.0040	+/-0.210	
GW0631 (1208028-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 08/10/12 18:37		
Bromofluorobenzene	0.05000	114	50 - 150	20.33	20.326	0.0040	+/-0.210	
Matrix Spike (2H09011-MS1) mg/L				Lab File ID: 007F0701.D		Analyzed: 08/10/12 19:15		
Bromofluorobenzene	0.05000	109	50 - 150	20.33	20.326	0.0040	+/-0.210	
Matrix Spike Dup (2H09011-MSD1) mg/L				Lab File ID: 008F0801.D		Analyzed: 08/10/12 19:54		
Bromofluorobenzene	0.05000	108	50 - 150	20.33	20.326	0.0040	+/-0.210	
GW0639 (1208028-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 08/10/12 20:32		
Bromofluorobenzene	0.05000	133	50 - 150	20.326	20.326	0.0000	+/-0.210	
GW0649 (1208028-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 08/10/12 21:11		
Bromofluorobenzene	0.05000	119	50 - 150	20.323	20.326	-0.0030	+/-0.210	
GW0650 (1208028-07) mg/L				Lab File ID: 011F1101.D		Analyzed: 08/10/12 21:49		
Bromofluorobenzene	0.05000	131	50 - 150	20.33	20.326	0.0040	+/-0.210	
GW0662 (1208028-09) mg/L				Lab File ID: 012F1201.D		Analyzed: 08/10/12 22:27		
Bromofluorobenzene	0.05000	122	50 - 150	20.336	20.326	0.0100	+/-0.210	
GW0663 (1208028-11) mg/L				Lab File ID: 013F1301.D		Analyzed: 08/10/12 23:05		
Bromofluorobenzene	0.05000	118	50 - 150	20.333	20.326	0.0070	+/-0.210	
GW0677 (1208028-13) mg/L				Lab File ID: 014F1401.D		Analyzed: 08/10/12 23:44		
Bromofluorobenzene	0.05000	124	50 - 150	20.33	20.326	0.0040	+/-0.210	
GW0712 (1208028-19) mg/L				Lab File ID: 015F1501.D		Analyzed: 08/11/12 00:22		
Bromofluorobenzene	0.05000	124	50 - 150	20.33	20.326	0.0040	+/-0.210	
Calibration Check (2H22710-CCV2) ug/mL				Lab File ID: 016F1601.D		Analyzed: 08/11/12 01:00		
Bromofluorobenzene	0.05000	97.1	80 - 120	20.333	20.326	0.0070	+/-0.210	
Calibration Check (2H22710-CCV3) ug/mL				Lab File ID: 026F2601.D		Analyzed: 08/11/12 07:22		
Bromofluorobenzene	0.05000	97.1	80 - 120	20.32	20.326	-0.0060	+/-0.210	
GW0710 (1208028-15) mg/L				Lab File ID: 027F2701.D		Analyzed: 08/11/12 08:01		
Bromofluorobenzene	0.05000	103	50 - 150	20.316	20.326	-0.0100	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22710	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0711 (1208028-17) mg/L				Lab File ID: 028F2801.D		Analyzed: 08/11/12 08:40		
Bromofluorobenzene	0.05000	110	50 - 150	20.313	20.326	-0.0130	+/-0.210	
Calibration Check (2H22710-CCV4) ug/mL				Lab File ID: 030F3001.D		Analyzed: 08/11/12 09:57		
Bromofluorobenzene	0.05000	94.5	80 - 120	20.306	20.326	-0.0200	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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
GW0661	07/31/12 11:56	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 15:37	3.11	14.00	
GW0678	07/31/12 12:25	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 16:18	3.12	14.00	
GW0679	07/31/12 12:25	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 16:58	3.15	14.00	
GW0680	07/31/12 10:15	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 17:37	3.27	14.00	
GW0697	07/30/12 15:22	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 18:17	4.08	14.00	
GW0698	07/30/12 12:05	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 18:56	4.24	14.00	
GW0723	07/30/12 15:51	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 19:36	4.11	14.00	
GW0724	07/30/12 13:42	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 20:15	4.23	14.00	
GW0725	07/30/12 13:42	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 20:55	4.26	14.00	
GW0726	07/30/12 11:36	08/01/12 08:30	08/03/12 09:41	N/A	14.00	08/03/12 21:34	4.37	14.00	
GW0631	08/02/12 11:05	08/03/12 08:20	08/10/12 18:37	N/A	14.00	08/10/12 18:37	8.27	14.00	
GW0639	08/02/12 13:09	08/03/12 08:20	08/10/12 20:32	N/A	14.00	08/10/12 20:32	8.27	14.00	
GW0649	08/02/12 12:15	08/03/12 08:20	08/10/12 21:11	N/A	14.00	08/10/12 21:11	8.33	14.00	
GW0650	08/02/12 14:37	08/03/12 08:20	08/10/12 21:49	N/A	14.00	08/10/12 21:49	8.26	14.00	
GW0662	08/01/12 09:46	08/03/12 08:20	08/10/12 22:27	N/A	14.00	08/10/12 22:27	9.49	14.00	
GW0663	07/31/12 14:29	08/03/12 08:20	08/10/12 23:05	N/A	14.00	08/10/12 23:05	10.32	14.00	
GW0677	07/31/12 14:45	08/03/12 08:20	08/10/12 23:44	N/A	14.00	08/10/12 23:44	10.33	14.00	
GW0710	08/01/12 14:59	08/03/12 08:20	08/11/12 08:01	N/A	14.00	08/11/12 08:01	9.67	14.00	
GW0711	08/01/12 12:50	08/03/12 08:20	08/11/12 08:40	N/A	14.00	08/11/12 08:40	9.78	14.00	
GW0712	08/01/12 14:52	08/03/12 08:20	08/11/12 00:22	N/A	14.00	08/11/12 00:22	9.35	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03008-BLK1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	08/03/12 14:57
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H03008	Sequence:	2H22012	Calibration:	2216001	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	0.06319	126	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03008-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	08/03/12 13:36
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H03008	Sequence:	2H22012	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5252	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04849	97.0	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03008-BSD1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	08/03/12 14:16
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H03008	Sequence:	2H22012	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5217	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05303	106	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H09011-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	08/10/12 17:59
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H09011	Sequence:	2H22710	Calibration:	2216001	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	0.06424	128	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H09011-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	08/10/12 17:21
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H09011	Sequence:	2H22710	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5221	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06109	122	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H09011-MS1	File ID:	007F0701.D
Sampled:		Prepared:		Analyzed:	08/10/12 19:15
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H09011	Sequence:	2H22710	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4909	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05453	109	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H09011-MSD1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	08/10/12 19:54
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2H09011	Sequence:	2H22710	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5179	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05385	108	50 - 150	

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21615	Instrument:	GL-ECD2
Calibration:	2216002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21615-CAL1	002R0101.D	08/02/12 15:07
Cal Standard	2H21615-CAL1	002F0101.D	08/02/12 15:07
Cal Standard	2H21615-CAL2	003R0101.D	08/02/12 15:29
Cal Standard	2H21615-CAL3	004R0101.D	08/02/12 15:51
Cal Standard	2H21615-CAL3	004F0101.D	08/02/12 15:51
Cal Standard	2H21615-CAL4	005R0101.D	08/02/12 16:13
Cal Standard	2H21615-CAL4	005F0101.D	08/02/12 16:13
Cal Standard	2H21615-CAL5	006R0101.D	08/02/12 16:35
Cal Standard	2H21615-CAL5	006F0101.D	08/02/12 16:35
Cal Standard	2H21615-CAL6	007R0101.D	08/02/12 16:57
Cal Standard	2H21615-CAL6	007F0101.D	08/02/12 16:57
Initial Cal Check	2H21615-ICV1	008R0101.D	08/02/12 17:19
Initial Cal Check	2H21615-ICV1	008F0101.D	08/02/12 17:19

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22113	Instrument:	GL-ECD2
Calibration:	2216002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22113-CCV1	002R0101.D	08/03/12 15:15
Calibration Check	2H22113-CCV1	002F0101.D	08/03/12 15:15
Blank	2H03011-BLK1	003R0101.D	08/03/12 15:36
Blank	2H03011-BLK1	003F0101.D	08/03/12 15:36
LCS	2H03011-BS1	004R0101.D	08/03/12 15:58
LCS	2H03011-BS1	004F0101.D	08/03/12 15:58
LCS Dup	2H03011-BSD1	005R0101.D	08/03/12 16:19
LCS Dup	2H03011-BSD1	005F0101.D	08/03/12 16:19
GW0661	1208005-01	007R0101.D	08/03/12 17:02
GW0661	1208005-01	007F0101.D	08/03/12 17:02
GW0678	1208005-03	008R0101.D	08/03/12 17:23
GW0678	1208005-03	008F0101.D	08/03/12 17:23
GW0679	1208005-05	009F0101.D	08/03/12 17:45
GW0679	1208005-05	009R0101.D	08/03/12 17:45
GW0680	1208005-07	010F0101.D	08/03/12 18:06
GW0680	1208005-07	010R0101.D	08/03/12 18:06
GW0697	1208005-09	011R0101.D	08/03/12 18:27
GW0697	1208005-09	011F0101.D	08/03/12 18:27
GW0698	1208005-11	012F0101.D	08/03/12 18:48
GW0698	1208005-11	012R0101.D	08/03/12 18:48
GW0723	1208005-13	013F0101.D	08/03/12 19:10
GW0723	1208005-13	013R0101.D	08/03/12 19:10
GW0724	1208005-15	014R0101.D	08/03/12 19:31
GW0724	1208005-15	014F0101.D	08/03/12 19:31
GW0725	1208005-17	015F0101.D	08/03/12 19:52
GW0725	1208005-17	015R0101.D	08/03/12 19:52
Calibration Check	2H22113-CCV2	016R0101.D	08/03/12 20:13
Calibration Check	2H22113-CCV2	016F0101.D	08/03/12 20:13
GW0726	1208005-19	017R0101.D	08/03/12 20:34
GW0726	1208005-19	017F0101.D	08/03/12 20:34
GW0639	1208028-03	018R0101.D	08/03/12 20:56
GW0639	1208028-03	018F0101.D	08/03/12 20:56

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22113	Instrument:	GL-ECD2
Calibration:	2216002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0649	1208028-05	019R0101.D	08/03/12 21:17
GW0649	1208028-05	019F0101.D	08/03/12 21:17
GW0650	1208028-07	020F0101.D	08/03/12 21:38
GW0650	1208028-07	020R0101.D	08/03/12 21:38
GW0662	1208028-09	021R0101.D	08/03/12 21:59
GW0662	1208028-09	021F0101.D	08/03/12 21:59
GW0663	1208028-11	022R0101.D	08/03/12 22:21
GW0663	1208028-11	022F0101.D	08/03/12 22:21
GW0677	1208028-13	023R0101.D	08/03/12 22:42
GW0677	1208028-13	023F0101.D	08/03/12 22:42
GW0711	1208028-17	025F0101.D	08/03/12 23:25
GW0711	1208028-17	025R0101.D	08/03/12 23:25
GW0712	1208028-19	026R0101.D	08/03/12 23:47
GW0712	1208028-19	026F0101.D	08/03/12 23:47
Calibration Check	2H22113-CCV3	027R0101.D	08/04/12 00:09
Calibration Check	2H22113-CCV3	027F0101.D	08/04/12 00:09

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22206	Instrument:	GL-ECD2
Calibration:	2216002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22206-CCV1	002R0101.D	08/08/12 16:57
Calibration Check	2H22206-CCV1	002F0101.D	08/08/12 16:57
GW0710	1208028-15RE1	003R0101.D	08/08/12 17:18
GW0710	1208028-15RE1	003F0101.D	08/08/12 17:18
Calibration Check	2H22206-CCV2	004R0101.D	08/08/12 17:40
Calibration Check	2H22206-CCV2	004F0101.D	08/08/12 17:40

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23303	Instrument:	GL-ECD2
Calibration:	2216002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H23303-CCV1	002R0101.D	08/14/12 14:56
Calibration Check	2H23303-CCV1	002F0101.D	08/14/12 14:56
Blank	2H14003-BLK1	003R0101.D	08/14/12 15:17
Blank	2H14003-BLK1	003F0101.D	08/14/12 15:17
LCS	2H14003-BS1	004R0101.D	08/14/12 15:39
LCS	2H14003-BS1	004F0101.D	08/14/12 15:39
LCS Dup	2H14003-BSD1	005R0101.D	08/14/12 16:00
LCS Dup	2H14003-BSD1	005F0101.D	08/14/12 16:00
GW0631	1208028-01	006R0101.D	08/14/12 16:22
GW0631	1208028-01	006F0101.D	08/14/12 16:22
Calibration Check	2H23303-CCV2	016R0101.D	08/14/12 19:54
Calibration Check	2H23303-CCV2	016F0101.D	08/14/12 19:54

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01	File ID:	007R0101.D
Sampled:	07/31/12 11:56	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 17:02
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.629	0.00954	0.0191	0.0286	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.908	2.165	113	30 - 130	
1,3-Dibromopropane [2C]	1.908	1.934	101	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03	File ID:	008R0101.D
Sampled:	07/31/12 12:25	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 17:23
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00919	0.0184	0.0276	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.838	1.956	106	30 - 130	
1,3-Dibromopropane [2C]	1.838	1.760	95.7	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05	File ID:	009R0101.D
Sampled:	07/31/12 12:25	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 17:45
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00926	0.0185	0.0278	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.852	2.067	112	30 - 130	
1,3-Dibromopropane [2C]	1.852	1.841	99.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07	File ID:	010F0101.D
Sampled:	07/31/12 10:15	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 18:06
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.878	2.060	110	30 - 130	
1,3-Dibromopropane [2C]	1.878	1.822	97.0	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09	File ID:	011F0101.D
Sampled:	07/30/12 15:22	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 18:27
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.274	0.00917	0.0183	0.0275	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.834	1.737	94.7	30 - 130	
1,3-Dibromopropane [2C]	1.834	1.438	78.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11	File ID:	012R0101.D
Sampled:	07/30/12 12:05	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 18:48
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00923	0.0185	0.0277	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.846	1.730	93.7	30 - 130	
1,3-Dibromopropane [2C]	1.846	1.531	83.0	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13	File ID:	013R0101.D
Sampled:	07/30/12 15:51	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 19:10
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0800	0.00935	0.0187	0.0281	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.871	1.969	105	30 - 130	
1,3-Dibromopropane [2C]	1.871	1.691	90.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15	File ID:	014R0101.D
Sampled:	07/30/12 13:42	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 19:31
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.202	0.00928	0.0186	0.0278	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.855	1.782	96.1	30 - 130	
1,3-Dibromopropane [2C]	1.855	1.495	80.6	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17	File ID:	015R0101.D
Sampled:	07/30/12 13:42	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 19:52
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.218	0.00933	0.0187	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.866	1.982	106	30 - 130	
1,3-Dibromopropane [2C]	1.866	1.668	89.4	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19	File ID:	017R0101.D
Sampled:	07/30/12 11:36	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 20:34
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.866	2.060	110	30 - 130	
1,3-Dibromopropane [2C]	1.866	1.808	96.9	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01	File ID:	006F0101.D
Sampled:	08/02/12 11:05	Prepared:	08/14/12 07:50	Analyzed:	08/14/12 16:22
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H14003 Sequence: 2H23303 Calibration: 2216002 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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.900	2.194	115	30 - 130	X
1,3-Dibromopropane [2C]	1.900	1.785	94.0	30 - 130	X

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03	File ID:	018R0101.D
Sampled:	08/02/12 13:09	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 20:56
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00916	0.0183	0.0275	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.832	1.698	92.7	30 - 130	
1,3-Dibromopropane [2C]	1.832	1.496	81.6	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05	File ID:	019R0101.D
Sampled:	08/02/12 12:15	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 21:17
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0493	0.00934	0.0187	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.867	1.714	91.8	30 - 130	
1,3-Dibromopropane [2C]	1.867	1.525	81.7	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07	File ID:	020R0101.D
Sampled:	08/02/12 14:37	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 21:38
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.556	0.00937	0.0187	0.0281	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.873	1.826	97.5	30 - 130	
1,3-Dibromopropane [2C]	1.873	1.601	85.5	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09	File ID:	021F0101.D
Sampled:	08/01/12 09:46	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 21:59
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.444	0.00939	0.0188	0.0282	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.879	1.888	100	30 - 130	
1,3-Dibromopropane [2C]	1.879	1.675	89.1	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11	File ID:	022F0101.D
Sampled:	07/31/12 14:29	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 22:21
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.251	0.00931	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.862	1.926	103	30 - 130	
1,3-Dibromopropane [2C]	1.862	1.685	90.5	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13	File ID:	023R0101.D
Sampled:	07/31/12 14:45	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 22:42
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00920	0.0184	0.0276	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.840	1.788	97.2	30 - 130	
1,3-Dibromopropane [2C]	1.840	1.575	85.6	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15RE1	File ID:	003F0101.D
Sampled:	08/01/12 14:59	Prepared:	08/03/12 11:51	Analyzed:	08/08/12 17:18
Solids:		Preparation:	EDB	Dilution:	10

Batch: 2H03011 Sequence: 2H22206 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	4.71	0.0941	0.188	0.282	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.882	ND		30 - 130	*
1,3-Dibromopropane [2C]	1.882	ND		30 - 130	*

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17	File ID:	025F0101.D
Sampled:	08/01/12 12:50	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 23:25
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.410	0.00928	0.0186	0.0278	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.856	1.575	84.9	30 - 130	
1,3-Dibromopropane [2C]	1.856	1.245	67.1	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_059
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19	File ID:	026R0101.D
Sampled:	08/01/12 14:52	Prepared:	08/03/12 11:51	Analyzed:	08/03/12 23:47
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2H03011 Sequence: 2H22113 Calibration: 2216002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00930	0.0186	0.0279	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.860	1.881	101	30 - 130	
1,3-Dibromopropane [2C]	1.860	1.633	87.8	30 - 130	

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H03011	Laboratory ID:	2H03011-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	0.5989	120	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5892	118	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	0.5985	120	0.0685	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5850	117	0.698	20	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H14003	Laboratory ID:	2H14003-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	0.5556	111	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5491	110	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	0.5412	108	2.62	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5235	105	4.77	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H03011 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/03/12 11:51	36.68	35.00
GW0678	1208005-03	08/03/12 11:51	38.08	35.00
GW0679	1208005-05	08/03/12 11:51	37.80	35.00
GW0680	1208005-07	08/03/12 11:51	37.27	35.00
GW0697	1208005-09	08/03/12 11:51	38.17	35.00
GW0698	1208005-11	08/03/12 11:51	37.92	35.00
GW0723	1208005-13	08/03/12 11:51	37.42	35.00
GW0724	1208005-15	08/03/12 11:51	37.73	35.00
GW0725	1208005-17	08/03/12 11:51	37.52	35.00
GW0726	1208005-19	08/03/12 11:51	37.52	35.00
GW0639	1208028-03	08/03/12 11:51	38.21	35.00
GW0649	1208028-05	08/03/12 11:51	37.49	35.00
GW0650	1208028-07	08/03/12 11:51	37.37	35.00
GW0662	1208028-09	08/03/12 11:51	37.26	35.00
GW0663	1208028-11	08/03/12 11:51	37.59	35.00
GW0677	1208028-13	08/03/12 11:51	38.05	35.00
GW0710	1208028-15RE1	08/03/12 11:51	37.20	35.00
GW0711	1208028-17	08/03/12 11:51	37.72	35.00
GW0712	1208028-19	08/03/12 11:51	37.64	35.00
Blank	2H03011-BLK1	08/03/12 11:51	35.00	35.00
LCS	2H03011-BS1	08/03/12 11:51	35.00	35.00
LCS Dup	2H03011-BSD1	08/03/12 11:51	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H14003 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/14/12 07:50	36.85	35.00
Blank	2H14003-BLK1	08/14/12 07:50	35.00	35.00
LCS	2H14003-BS1	08/14/12 07:50	35.00	35.00
LCS Dup	2H14003-BSD1	08/14/12 07:50	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03011-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	08/03/12 11:51	Analyzed:	08/03/12 15:36
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H03011	Sequence:	2H22113	Calibration:	2216002	Instrument:	GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.265	113	30 - 130	
1,3-Dibromopropane [2C]	2.000	2.051	103	30 - 130	

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H14003-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	08/14/12 07:50	Analyzed:	08/14/12 15:17
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H14003	Sequence:	2H23303	Calibration:	2216002	Instrument:	GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.633	132	30 - 130	*X
1,3-Dibromopropane [2C]	2.000	2.108	105	30 - 130	X

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21615	Instrument:	GL-ECD2
Calibration:	2216002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12H0104	EDB ICAL 1 (0.02ppb)	2H21615-CAL1	002R0101.D	08/02/12 15:07
12H0104	EDB ICAL 1 (0.02ppb)	2H21615-CAL1	002F0101.D	08/02/12 15:07
12H0105	EDB ICAL 2 (0.05ppb)	2H21615-CAL2	003R0101.D	08/02/12 15:29
12H0106	EDB ICAL 3 (0.10ppb)	2H21615-CAL3	004R0101.D	08/02/12 15:51
12H0106	EDB ICAL 3 (0.10ppb)	2H21615-CAL3	004F0101.D	08/02/12 15:51
12H0107	EDB ICAL 4 (0.20ppb)	2H21615-CAL4	005R0101.D	08/02/12 16:13
12H0107	EDB ICAL 4 (0.20ppb)	2H21615-CAL4	005F0101.D	08/02/12 16:13
12H0108	EDB ICAL 5 (0.5ppb)	2H21615-CAL5	006R0101.D	08/02/12 16:35
12H0108	EDB ICAL 5 (0.5ppb)	2H21615-CAL5	006F0101.D	08/02/12 16:35
12H0109	EDB ICAL 6 (1.0ppb)	2H21615-CAL6	007R0101.D	08/02/12 16:57
12H0109	EDB ICAL 6 (1.0ppb)	2H21615-CAL6	007F0101.D	08/02/12 16:57

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	8/2/12_15:07	8/2/12_16:57

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	43750	0.5		0.1	16280	0.2	14565	0.5	11758	1	10534
1,2-Dibromoethane [2C]	0.02	45750	0.5		0.1	34170	0.2	31895	0.5	30424	1	28172
1,2-Dibromo-3-chloropropane	0.02	60200	0.5		0.1	25410	0.2	22470	0.5	18706	1	16802
1,2-Dibromo-3-chloropropane [2C]	0.02	526550	0.5		0.1	135080	0.2	94485	0.5	71130	1	59251
1,3-Dibromopropane	0.1	23890	0.2		0.5	30890	1	28945	2	29173.5	4	27095.75
1,3-Dibromopropane [2C]	0.1	131790	0.2		0.5	119632	1	120012	2	114218	4	106049

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	8/2/12 15:07	8/2/12 16:57

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	19377.4	71.27668	2.4076	9.018324E-02	0.9984684		0.995	
1,2-Dibromoethane [2C]	34082.2	20.18139	2.2744	0.1390909	0.9987498		0.995	
1,2-Dibromo-3-chloropropane	28717.6	62.37215	8.5068	1.954159E-02	0.9984851		0.995	
1,2-Dibromo-3-chloropropane [2C]	177299.2	111.3219	8.6948	4.920545E-03	0.9986171		0.995	
1,3-Dibromopropane	27998.85	9.505355	5.7244	5.988388E-02			20	
1,3-Dibromopropane [2C]	118340.2	7.943054	5.6374	5.560242E-02			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	008F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H21615	Injection Date:	08/02/12
Lab Sample ID:	2H21615-ICV1	Injection Time:	17:19

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5522	19377.4	12450		10.4	20
1,2-Dibromoethane [2C]	L	0.5000	0.5721	34082.2	33216		14.4	20
1,3-Dibromopropane	A	2.000	2.135	27998.85	29886.5		6.7	20
1,3-Dibromopropane [2C]	A	2.000	1.965	118340.2	116265		-1.8	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	002F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H22113	Injection Date:	08/03/12
Lab Sample ID:	2H22113-CCV1	Injection Time:	15:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5930	19377.4	13254		18.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.5390	34082.2	31372		7.8	20
1,3-Dibromopropane	A	2.000	2.308	27998.85	32306.5		15.4	20
1,3-Dibromopropane [2C]	A	2.000	2.070	118340.2	122516.5		3.5	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	016F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H22113	Injection Date:	08/03/12
Lab Sample ID:	2H22113-CCV2	Injection Time:	20:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5418	19377.4	12244		8.4	20
1,2-Dibromoethane [2C]	L	0.5000	0.5334	34082.2	31062		6.7	20
1,3-Dibromopropane	A	2.000	2.239	27998.85	31342.5		11.9	20
1,3-Dibromopropane [2C]	A	2.000	1.976	118340.2	116917.5		-1.2	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	027F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H22113	Injection Date:	08/04/12
Lab Sample ID:	2H22113-CCV3	Injection Time:	00:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5222	19377.4	11856		4.4	20
1,2-Dibromoethane [2C]	L	0.5000	0.5255	34082.2	30624		5.1	20
1,3-Dibromopropane	A	2.000	2.243	27998.85	31404		12.2	20
1,3-Dibromopropane [2C]	A	2.000	1.959	118340.2	115892		-2.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	002F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H22206	Injection Date:	08/08/12
Lab Sample ID:	2H22206-CCV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5948	19377.4	13290		19.0	20
1,2-Dibromoethane [2C]	L	0.5000	0.5318	34082.2	30974		6.4	20
1,3-Dibromopropane	A	2.000	2.227	27998.85	31172.5		11.3	20
1,3-Dibromopropane [2C]	A	2.000	2.002	118340.2	118457		0.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	004F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H22206	Injection Date:	08/08/12
Lab Sample ID:	2H22206-CCV2	Injection Time:	17:40

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5896	19377.4	13188		17.9	20
1,2-Dibromoethane [2C]	L	0.5000	0.5665	34082.2	32904		13.3	20
1,3-Dibromopropane	A	2.000	2.240	27998.85	31360		12.0	20
1,3-Dibromopropane [2C]	A	2.000	2.066	118340.2	122275.5		3.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	002F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H23303	Injection Date:	08/14/12
Lab Sample ID:	2H23303-CCV1	Injection Time:	14:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5681	19377.4	12764		13.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.5306	34082.2	30910		6.1	20
1,3-Dibromopropane	A	2.000	3.121	27998.85	43688		56.0	20 *
1,3-Dibromopropane [2C]	A	2.000	2.438	118340.2	144290.5		21.9	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_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2216002
Lab File ID:	016F0101.D	Calibration Date:	08/02/12 15:07
Sequence:	2H23303	Injection Date:	08/14/12
Lab Sample ID:	2H23303-CCV2	Injection Time:	19:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4335	19377.4	10104		-13.3	20
1,2-Dibromoethane [2C]	L	0.5000	0.4449	34082.2	26138		-11.0	20
1,3-Dibromopropane	A	2.000	2.190	27998.85	30664.5		9.5	20
1,3-Dibromopropane [2C]	A	2.000	1.764	118340.2	104369		-11.8	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22113	Instrument:	GL-ECD2
		Calibration:	2216002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22113-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 08/03/12 15:15		
1,3-Dibromopropane	2.000	115	80 - 120	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	104	80 - 120	5.643	5.643	0.0000	+/-0.030	
Blank (2H03011-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 08/03/12 15:36		
1,3-Dibromopropane	2.000	113	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	103	30 - 130	5.643	5.643	0.0000	+/-0.030	
LCS (2H03011-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 08/03/12 15:58		
1,3-Dibromopropane	2.000	113	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	101	30 - 130	5.643	5.643	0.0000	+/-0.030	
LCS Dup (2H03011-BSD1) ug/L				Lab File ID: 005F0101.D		Analyzed: 08/03/12 16:19		
1,3-Dibromopropane	2.000	112	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	101	30 - 130	5.643	5.643	0.0000	+/-0.030	
GW0661 (1208005-01) ug/L				Lab File ID: 007F0101.D		Analyzed: 08/03/12 17:02		
1,3-Dibromopropane	1.908	113	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.908	101	30 - 130	5.643	5.643	0.0000	+/-0.030	
GW0678 (1208005-03) ug/L				Lab File ID: 008F0101.D		Analyzed: 08/03/12 17:23		
1,3-Dibromopropane	1.838	106	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.838	95.7	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0679 (1208005-05) ug/L				Lab File ID: 009F0101.D		Analyzed: 08/03/12 17:45		
1,3-Dibromopropane	1.852	112	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.852	99.4	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0680 (1208005-07) ug/L				Lab File ID: 010F0101.D		Analyzed: 08/03/12 18:06		
1,3-Dibromopropane	1.878	110	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.878	97.0	30 - 130	5.65	5.643	0.0070	+/-0.030	
GW0697 (1208005-09) ug/L				Lab File ID: 011F0101.D		Analyzed: 08/03/12 18:27		
1,3-Dibromopropane	1.834	94.7	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.834	78.4	30 - 130	5.65	5.643	0.0070	+/-0.030	
GW0698 (1208005-11) ug/L				Lab File ID: 012F0101.D		Analyzed: 08/03/12 18:48		
1,3-Dibromopropane	1.846	93.7	30 - 130	5.736	5.73	0.0060	+/-0.030	
1,3-Dibromopropane [2C]	1.846	83.0	30 - 130	5.65	5.643	0.0070	+/-0.030	
GW0723 (1208005-13) ug/L				Lab File ID: 013F0101.D		Analyzed: 08/03/12 19:10		
1,3-Dibromopropane	1.871	105	30 - 130	5.736	5.73	0.0060	+/-0.030	
1,3-Dibromopropane [2C]	1.871	90.4	30 - 130	5.653	5.643	0.0100	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22113	Instrument:	GL-ECD2
		Calibration:	2216002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0724 (1208005-15) ug/L				Lab File ID: 014F0101.D		Analyzed: 08/03/12 19:31		
1,3-Dibromopropane	1.855	96.1	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.855	80.6	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0725 (1208005-17) ug/L				Lab File ID: 015F0101.D		Analyzed: 08/03/12 19:52		
1,3-Dibromopropane	1.866	106	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.866	89.4	30 - 130	5.646	5.643	0.0030	+/-0.030	
Calibration Check (2H22113-CCV2) ug/L				Lab File ID: 016F0101.D		Analyzed: 08/03/12 20:13		
1,3-Dibromopropane	2.000	112	80 - 120	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	2.000	98.8	80 - 120	5.646	5.643	0.0030	+/-0.030	
GW0726 (1208005-19) ug/L				Lab File ID: 017F0101.D		Analyzed: 08/03/12 20:34		
1,3-Dibromopropane	1.866	110	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.866	96.9	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0639 (1208028-03) ug/L				Lab File ID: 018F0101.D		Analyzed: 08/03/12 20:56		
1,3-Dibromopropane	1.832	92.7	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.832	81.6	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0649 (1208028-05) ug/L				Lab File ID: 019F0101.D		Analyzed: 08/03/12 21:17		
1,3-Dibromopropane	1.867	91.8	30 - 130	5.73	5.73	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.867	81.7	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0650 (1208028-07) ug/L				Lab File ID: 020F0101.D		Analyzed: 08/03/12 21:38		
1,3-Dibromopropane	1.873	97.5	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.873	85.5	30 - 130	5.65	5.643	0.0070	+/-0.030	
GW0662 (1208028-09) ug/L				Lab File ID: 021F0101.D		Analyzed: 08/03/12 21:59		
1,3-Dibromopropane	1.879	100	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.879	89.1	30 - 130	5.646	5.643	0.0030	+/-0.030	
GW0663 (1208028-11) ug/L				Lab File ID: 022F0101.D		Analyzed: 08/03/12 22:21		
1,3-Dibromopropane	1.862	103	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.862	90.5	30 - 130	5.65	5.643	0.0070	+/-0.030	
GW0677 (1208028-13) ug/L				Lab File ID: 023F0101.D		Analyzed: 08/03/12 22:42		
1,3-Dibromopropane	1.840	97.2	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.840	85.6	30 - 130	5.65	5.643	0.0070	+/-0.030	
GW0711 (1208028-17) ug/L				Lab File ID: 025F0101.D		Analyzed: 08/03/12 23:25		
1,3-Dibromopropane	1.856	84.9	30 - 130	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.856	67.1	30 - 130	5.646	5.643	0.0030	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22113	Instrument:	GL-ECD2
		Calibration:	2216002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0712 (1208028-19) ug/L				Lab File ID: 026F0101.D		Analyzed: 08/03/12 23:47		
1,3-Dibromopropane	1.860	101	30 - 130	5.736	5.73	0.0060	+/-0.030	
1,3-Dibromopropane [2C]	1.860	87.8	30 - 130	5.65	5.643	0.0070	+/-0.030	
Calibration Check (2H22113-CCV3) ug/L				Lab File ID: 027F0101.D		Analyzed: 08/04/12 00:09		
1,3-Dibromopropane	2.000	112	80 - 120	5.733	5.73	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	2.000	98.0	80 - 120	5.646	5.643	0.0030	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22206	Instrument:	GL-ECD2
		Calibration:	2216002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H22206-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 08/08/12 16:57		
1,3-Dibromopropane	2.000	111	80 - 120	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	100	80 - 120	5.65	5.65	0.0000	+/-0.030	
GW0710 (1208028-15RE1) ug/L				Lab File ID: 003F0101.D		Analyzed: 08/08/12 17:18		
1,3-Dibromopropane	1.882		30 - 130		5.733	-5.7330	+/-0.030	*
1,3-Dibromopropane [2C]	1.882		30 - 130		5.65	-5.6500	+/-0.030	*
Calibration Check (2H22206-CCV2) ug/L				Lab File ID: 004F0101.D		Analyzed: 08/08/12 17:40		
1,3-Dibromopropane	2.000	112	80 - 120	5.733	5.733	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	2.000	103	80 - 120	5.646	5.65	-0.0040	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23303	Instrument:	GL-ECD2
		Calibration:	2216002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2H23303-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 08/14/12 14:56		
1,3-Dibromopropane	2.000	156	80 - 120	5.74	5.74	0.0000	+/-0.030	*
1,3-Dibromopropane [2C]	2.000	122	80 - 120	5.656	5.656	0.0000	+/-0.030	*
Blank (2H14003-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 08/14/12 15:17		
1,3-Dibromopropane	2.000	132	30 - 130	5.74	5.74	0.0000	+/-0.030	*
1,3-Dibromopropane [2C]	2.000	105	30 - 130	5.656	5.656	0.0000	+/-0.030	
LCS (2H14003-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 08/14/12 15:39		
1,3-Dibromopropane	2.000	120	30 - 130	5.743	5.74	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	2.000	95.6	30 - 130	5.656	5.656	0.0000	+/-0.030	
LCS Dup (2H14003-BSD1) ug/L				Lab File ID: 005F0101.D		Analyzed: 08/14/12 16:00		
1,3-Dibromopropane	2.000	119	30 - 130	5.743	5.74	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	2.000	96.3	30 - 130	5.656	5.656	0.0000	+/-0.030	
GW0631 (1208028-01) ug/L				Lab File ID: 006F0101.D		Analyzed: 08/14/12 16:22		
1,3-Dibromopropane	1.900	115	30 - 130	5.743	5.74	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.900	94.0	30 - 130	5.656	5.656	0.0000	+/-0.030	
Calibration Check (2H23303-CCV2) ug/L				Lab File ID: 016F0101.D		Analyzed: 08/14/12 19:54		
1,3-Dibromopropane	2.000	110	80 - 120	5.73	5.74	-0.0100	+/-0.030	
1,3-Dibromopropane [2C]	2.000	88.2	80 - 120	5.646	5.656	-0.0100	+/-0.030	

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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
GW0661	07/31/12 11:56	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 17:02	3.17	14.00	
GW0678	07/31/12 12:25	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 17:23	3.17	14.00	
GW0679	07/31/12 12:25	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 17:45	3.18	14.00	
GW0680	07/31/12 10:15	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 18:06	3.29	14.00	
GW0697	07/30/12 15:22	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 18:27	4.09	14.00	
GW0698	07/30/12 12:05	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 18:48	4.24	14.00	
GW0723	07/30/12 15:51	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 19:10	4.10	14.00	
GW0724	07/30/12 13:42	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 19:31	4.20	14.00	
GW0725	07/30/12 13:42	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 19:52	4.22	14.00	
GW0726	07/30/12 11:36	08/01/12 08:30	08/03/12 11:51	N/A	14.00	08/03/12 20:34	4.33	14.00	
GW0631	08/02/12 11:05	08/03/12 08:20	08/14/12 07:50	N/A	14.00	08/14/12 16:22	12.18	14.00	
GW0639	08/02/12 13:09	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 20:56	1.28	14.00	
GW0649	08/02/12 12:15	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 21:17	1.33	14.00	
GW0650	08/02/12 14:37	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 21:38	1.25	14.00	
GW0662	08/01/12 09:46	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 21:59	2.47	14.00	
GW0663	07/31/12 14:29	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 22:21	3.29	14.00	
GW0677	07/31/12 14:45	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 22:42	3.29	14.00	
GW0710	08/01/12 14:59	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/08/12 17:18	7.05	14.00	
GW0711	08/01/12 12:50	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 23:25	2.40	14.00	
GW0712	08/01/12 14:52	08/03/12 08:20	08/03/12 11:51	N/A	14.00	08/03/12 23:47	2.33	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03011-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	08/03/12 15:58
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H03011	Sequence:	2H22113	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5989	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.261	113	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03011-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	08/03/12 15:58
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H03011	Sequence:	2H22113	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5892	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	2.000	2.030	101	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03011-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	08/03/12 16:19
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H03011	Sequence:	2H22113	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5985	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.245	112	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H03011-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	08/03/12 16:19
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H03011	Sequence:	2H22113	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5850	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	2.000	2.022	101	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H14003-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	08/14/12 15:39
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H14003	Sequence:	2H23303	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5556	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.393	120	30 - 130	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H14003-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	08/14/12 15:39
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H14003	Sequence:	2H23303	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5491	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	2.000	1.913	95.6	30 - 130	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H14003-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	08/14/12 16:00
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H14003	Sequence:	2H23303	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5412	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	2.000	2.386	119	30 - 130	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2H14003-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	08/14/12 16:00
Solids:		Preparation:	EDB	Dilution:	

Batch:	2H14003	Sequence:	2H23303	Calibration:	2216002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5235	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	2.000	1.926	96.3	30 - 130	X

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0661

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208005-01

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.623	
	2	2.28	2.24	2.30	0.629	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0697

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208005-09

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.274	
	2	2.29	2.24	2.30	0.238	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0723

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208005-13

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.0735	
	2	2.29	2.24	2.30	0.0800	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0724

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208005-15

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.194	
	2	2.28	2.24	2.30	0.202	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0725

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208005-17

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.204	
	2	2.28	2.24	2.30	0.218	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0649

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208028-05

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.0473	
	2	2.28	2.24	2.30	0.0493	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0650

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208028-07

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.537	
	2	2.28	2.24	2.30	0.556	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0662

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208028-09

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.444	
	2	2.28	2.24	2.30	0.427	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0663

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208028-11

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.251	
	2	2.28	2.24	2.30	0.219	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0710

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208028-15RE1

Date(s) Analyzed: 08/08/2012 08/08/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	4.71	
	2	2.28	2.24	2.30	4.48	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0711

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1208028-17

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.410	
	2	2.28	2.24	2.30	0.380	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2H03011-BS1

Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.5989	
	2	2.28	2.24	2.30	0.5892	2

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2H03011-BSD1 Date(s) Analyzed: 08/03/2012 08/03/2012

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	0.5985	
	2	2.28	2.24	2.30	0.5850	2

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2H14003-BS1 Date(s) Analyzed: 08/14/2012 08/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.5556	
	2	2.29	2.24	2.30	0.5491	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2H14003-BSD1 Date(s) Analyzed: 08/14/2012 08/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.38	2.44	0.5412	
	2	2.29	2.24	2.30	0.5235	3

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01
Sampled:	07/31/12 11:56	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	56200	1000	2000	5000	1		SW6010B	2H02010	08/13/12 14:47
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 14:47
7439-95-4	Magnesium	7840	1000	3000	5000	1		SW6010B	2H02010	08/13/12 14:47
7440-09-7	Potassium	2610	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 14:47
7440-23-5	Sodium	29900	1000	3000	5000	1		SW6010B	2H02010	08/13/12 14:47

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-02
Sampled:	07/31/12 11:56	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	2H01016	08/01/12 20:08
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2H01016	08/01/12 20:08

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03
Sampled:	07/31/12 12:25	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	60400	1000	2000	5000	1		SW6010B	2H02010	08/13/12 14:51
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 14:51
7439-95-4	Magnesium	8720	1000	3000	5000	1		SW6010B	2H02010	08/13/12 14:51
7440-09-7	Potassium	2970	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 14:51
7440-23-5	Sodium	27000	1000	3000	5000	1		SW6010B	2H02010	08/13/12 14:51

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-04
Sampled:	07/31/12 12:25	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	2H01016	08/01/12 20:13
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2H01016	08/01/12 20:13

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05
Sampled:	07/31/12 12:25	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	60600	1000	2000	5000	1		SW6010B	2H02010	08/13/12 14:56
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 14:56
7439-95-4	Magnesium	8610	1000	3000	5000	1		SW6010B	2H02010	08/13/12 14:56
7440-09-7	Potassium	2930	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 14:56
7440-23-5	Sodium	27300	1000	3000	5000	1		SW6010B	2H02010	08/13/12 14:56

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-06
Sampled:	07/31/12 12:25	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	2H01016	08/01/12 20:17
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2H01016	08/01/12 20:17

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07
Sampled:	07/31/12 10:15	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	47600	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:00
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:00
7439-95-4	Magnesium	6650	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:00
7440-09-7	Potassium	2380	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:00
7440-23-5	Sodium	24000	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:00

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-08
Sampled:	07/31/12 10:15	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	2H01016	08/01/12 20:22
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2H01016	08/01/12 20:22

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09
Sampled:	07/30/12 15:22	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	71600	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:05
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:05
7439-95-4	Magnesium	10200	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:05
7440-09-7	Potassium	2800	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:05
7440-23-5	Sodium	31400	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:05

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-10
Sampled:	07/30/12 15:22	Received:	08/01/12 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)	1110	30.0	60.0	100	1	X	SW6010B	2H01016	08/01/12 20:26
7439-96-5	Manganese (dissolved)	1020	3.00	6.00	15.0	1		SW6010B	2H01016	08/01/12 20:26

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11
Sampled:	07/30/12 12:05	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33100	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:22
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:22
7439-95-4	Magnesium	4560	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:22
7440-09-7	Potassium	1960	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:22
7440-23-5	Sodium	21100	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:22

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-12
Sampled:	07/30/12 12:05	Received:	08/01/12 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	2H14008	08/16/12 17:00
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 17:00

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13
Sampled:	07/30/12 15:51	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	51700	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:26
7439-95-4	Magnesium	6990	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:26
7440-09-7	Potassium	2810	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:26
7440-23-5	Sodium	24900	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:26

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-14
Sampled:	07/30/12 15:51	Received:	08/01/12 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	2H14008	08/16/12 17:05
7439-96-5	Manganese (dissolved)	8.64	3.00	6.00	15.0	1	X J	SW6010B	2H14008	08/16/12 17:05

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15
Sampled:	07/30/12 13:42	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	55500	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:31
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:31
7439-95-4	Magnesium	7450	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:31
7440-09-7	Potassium	2690	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:31
7440-23-5	Sodium	26200	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:31

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-16
Sampled:	07/30/12 13:42	Received:	08/01/12 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)	67.9	30.0	60.0	100	1	J	SW6010B	2H14008	08/16/12 17:09
7439-96-5	Manganese (dissolved)	269	3.00	6.00	15.0	1	X	SW6010B	2H14008	08/16/12 17:09

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17
Sampled:	07/30/12 13:42	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	53600	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:35
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:35
7439-95-4	Magnesium	6930	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:35
7440-09-7	Potassium	2410	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:35
7440-23-5	Sodium	25800	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:35

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-18
Sampled:	07/30/12 13:42	Received:	08/01/12 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)	65.5	30.0	60.0	100	1	J	SW6010B	2H14008	08/16/12 17:13
7439-96-5	Manganese (dissolved)	264	3.00	6.00	15.0	1	X	SW6010B	2H14008	08/16/12 17:13

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19
Sampled:	07/30/12 11:36	Received:	08/01/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	31500	1000	2000	5000	1		SW6010B	2H02010	08/13/12 15:40
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H02010	08/13/12 15:40
7439-95-4	Magnesium	4200	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:40
7440-09-7	Potassium	1980	1000	3000	5000	1	J	SW6010B	2H02010	08/13/12 15:40
7440-23-5	Sodium	20400	1000	3000	5000	1		SW6010B	2H02010	08/13/12 15:40

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-20
Sampled:	07/30/12 11:36	Received:	08/01/12 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	2H14008	08/16/12 17:18
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 17:18

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01
Sampled:	08/02/12 11:05	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	45500	1000	2000	5000	1		SW6010B	2H08013	08/13/12 16:49
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 16:49
7439-95-4	Magnesium	7000	1000	3000	5000	1		SW6010B	2H08013	08/13/12 16:49
7440-09-7	Potassium	2530	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 16:49
7440-23-5	Sodium	24000	1000	3000	5000	1		SW6010B	2H08013	08/13/12 16:49

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-02
Sampled:	08/02/12 11:05	Received:	08/03/12 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	2H14008	08/16/12 17:22
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 17:22

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03
Sampled:	08/02/12 13:09	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	39300	1000	2000	5000	1		SW6010B	2H08013	08/13/12 16:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 16:53
7439-95-4	Magnesium	5540	1000	3000	5000	1		SW6010B	2H08013	08/13/12 16:53
7440-09-7	Potassium	2220	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 16:53
7440-23-5	Sodium	24100	1000	3000	5000	1		SW6010B	2H08013	08/13/12 16:53

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-04
Sampled:	08/02/12 13:09	Received:	08/03/12 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	2H14008	08/16/12 17:27
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 17:27

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05
Sampled:	08/02/12 12:15	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	71800	1000	2000	5000	1		SW6010B	2H08013	08/13/12 16:58
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 16:58
7439-95-4	Magnesium	10400	1000	3000	5000	1		SW6010B	2H08013	08/13/12 16:58
7440-09-7	Potassium	3180	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 16:58
7440-23-5	Sodium	31800	1000	3000	5000	1		SW6010B	2H08013	08/13/12 16:58

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-06
Sampled:	08/02/12 12:15	Received:	08/03/12 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)	97.2	30.0	60.0	100	1	J	SW6010B	2H14008	08/16/12 17:31
7439-96-5	Manganese (dissolved)	176	3.00	6.00	15.0	1	X	SW6010B	2H14008	08/16/12 17:31

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07
Sampled:	08/02/12 14:37	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	47500	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:02
7439-95-4	Magnesium	6710	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:02
7440-09-7	Potassium	2510	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:02
7440-23-5	Sodium	26100	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:02

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-08
Sampled:	08/02/12 14:37	Received:	08/03/12 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	2H14008	08/16/12 17:36
7439-96-5	Manganese (dissolved)	343	3.00	6.00	15.0	1	X	SW6010B	2H14008	08/16/12 17:36

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09
Sampled:	08/01/12 09:46	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	70000	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:07
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:07
7439-95-4	Magnesium	9880	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:07
7440-09-7	Potassium	2930	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:07
7440-23-5	Sodium	33200	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:07

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-10
Sampled:	08/01/12 09:46	Received:	08/03/12 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	2H14008	08/16/12 17:40
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 17:40

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11
Sampled:	07/31/12 14:29	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44700	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:11
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:11
7439-95-4	Magnesium	6390	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:11
7440-09-7	Potassium	2400	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:11
7440-23-5	Sodium	26500	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:11

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-12
Sampled:	07/31/12 14:29	Received:	08/03/12 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	2H14008	08/16/12 17:57
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 17:57

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13
Sampled:	07/31/12 14:45	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	213000	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:15
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:15
7439-95-4	Magnesium	30100	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:15
7440-09-7	Potassium	4790	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:15
7440-23-5	Sodium	42600	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:15

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-14
Sampled:	07/31/12 14:45	Received:	08/03/12 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	2H14008	08/16/12 18:02
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 18:02

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15
Sampled:	08/01/12 14:59	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	155000	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:20
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:20
7439-95-4	Magnesium	25700	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:20
7440-09-7	Potassium	4190	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:20
7440-23-5	Sodium	44100	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:20

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-16
Sampled:	08/01/12 14:59	Received:	08/03/12 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)	7210	30.0	60.0	100	1		SW6010B	2H14008	08/16/12 18:06
7439-96-5	Manganese (dissolved)	5380	3.00	6.00	15.0	1	X	SW6010B	2H14008	08/16/12 18:06

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17
Sampled:	08/01/12 12:50	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	144000	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:37
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:37
7439-95-4	Magnesium	23000	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:37
7440-09-7	Potassium	3850	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:37
7440-23-5	Sodium	46200	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:37

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-18
Sampled:	08/01/12 12:50	Received:	08/03/12 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)	2400	30.0	60.0	100	1		SW6010B	2H14008	08/16/12 18:11
7439-96-5	Manganese (dissolved)	5330	3.00	6.00	15.0	1	X	SW6010B	2H14008	08/16/12 18:11

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19
Sampled:	08/01/12 14:52	Received:	08/03/12 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	34000	1000	2000	5000	1		SW6010B	2H08013	08/13/12 17:42
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2H08013	08/13/12 17:42
7439-95-4	Magnesium	4890	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:42
7440-09-7	Potassium	1990	1000	3000	5000	1	J	SW6010B	2H08013	08/13/12 17:42
7440-23-5	Sodium	22700	1000	3000	5000	1		SW6010B	2H08013	08/13/12 17:42

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-20
Sampled:	08/01/12 14:52	Received:	08/03/12 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	2H14008	08/16/12 18:16
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	X U	SW6010B	2H14008	08/16/12 18:16

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2215002
Sequence: 2H21510

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H21510-ICV1	Iron (dissolved)	10000	10510	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1024	102	ug/L	+/- 10.00%
2H21510-CCV1	Iron (dissolved)	10000	10520	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1026	103	ug/L	+/- 10.00%
2H21510-CCV7	Iron (dissolved)	10000	9564	95.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	973.6	97.4	ug/L	+/- 10.00%
2H21510-CCV8	**Iron (dissolved)**	**10000**	**11680**	**117**	**ug/L**	+/- 10.00%
	Manganese (dissolved)	1000	1062	106	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_059
Project: Kirtland AFB 2011
Calibration: 2228001
Sequence: 2H22712

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H22712-ICV1	Calcium	50000	52800	106	ug/L	+/- 10.00%
	Lead	1000	964.8	96.5	ug/L	+/- 10.00%
	Magnesium	50000	53640	107	ug/L	+/- 10.00%
	Potassium	10000	10140	101	ug/L	+/- 10.00%
	Sodium	50000	52890	106	ug/L	+/- 10.00%
2H22712-CCV1	Calcium	50000	53400	107	ug/L	+/- 10.00%
	Lead	1000	979.3	97.9	ug/L	+/- 10.00%
	Magnesium	50000	55140	110	ug/L	+/- 10.00%
	Potassium	10000	10430	104	ug/L	+/- 10.00%
	Sodium	50000	53560	107	ug/L	+/- 10.00%
2H22712-CCV3	Calcium	50000	50010	100	ug/L	+/- 10.00%
	Lead	1000	990.4	99.0	ug/L	+/- 10.00%
	Magnesium	50000	50100	100	ug/L	+/- 10.00%
	Potassium	10000	9820	98.2	ug/L	+/- 10.00%
	Sodium	50000	50710	101	ug/L	+/- 10.00%
2H22712-CCV4	Calcium	50000	47880	95.8	ug/L	+/- 10.00%
	Lead	1000	982.4	98.2	ug/L	+/- 10.00%
	Magnesium	50000	46190	92.4	ug/L	+/- 10.00%
	Potassium	10000	9066	90.7	ug/L	+/- 10.00%
	Sodium	50000	49110	98.2	ug/L	+/- 10.00%
2H22712-CCV5	Calcium	50000	51030	102	ug/L	+/- 10.00%
	Lead	1000	986.9	98.7	ug/L	+/- 10.00%
	Magnesium	50000	52470	105	ug/L	+/- 10.00%
	Potassium	10000	10370	104	ug/L	+/- 10.00%
	Sodium	50000	51420	103	ug/L	+/- 10.00%
2H22712-CCV6	Calcium	50000	52640	105	ug/L	+/- 10.00%
	Lead	1000	973.0	97.3	ug/L	+/- 10.00%
	Magnesium	50000	54170	108	ug/L	+/- 10.00%
	Potassium	10000	10390	104	ug/L	+/- 10.00%
	Sodium	50000	53290	107	ug/L	+/- 10.00%
2H22712-CCV7	Calcium	50000	49420	98.8	ug/L	+/- 10.00%
	Lead	1000	988.7	98.9	ug/L	+/- 10.00%
	Magnesium	50000	49000	98.0	ug/L	+/- 10.00%
	Potassium	10000	9912	99.1	ug/L	+/- 10.00%
	Sodium	50000	49430	98.9	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2234004
Sequence: 2H22909

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H22909-ICV1	Calcium	50000	52700	105	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10180	102	ug/L	+/- 10.00%
	Lead	1000	951.5	95.1	ug/L	+/- 10.00%
	Magnesium	50000	50800	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1027	103	ug/L	+/- 10.00%
	Potassium	10000	10070	101	ug/L	+/- 10.00%
	Sodium	50000	50900	102	ug/L	+/- 10.00%
2H22909-CCV1	Calcium	50000	50910	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10290	103	ug/L	+/- 10.00%
	Lead	1000	975.6	97.6	ug/L	+/- 10.00%
	Magnesium	50000	50710	101	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1006	101	ug/L	+/- 10.00%
	Potassium	10000	10200	102	ug/L	+/- 10.00%
	Sodium	50000	52390	105	ug/L	+/- 10.00%
2H22909-CCV2	Calcium	50000	49130	98.3	ug/L	+/- 10.00%
	Lead	1000	988.2	98.8	ug/L	+/- 10.00%
	Magnesium	50000	49130	98.3	ug/L	+/- 10.00%
	Potassium	10000	10370	104	ug/L	+/- 10.00%
	Sodium	50000	51380	103	ug/L	+/- 10.00%
2H22909-CCV6	Iron (dissolved)	10000	10480	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1078	108	ug/L	+/- 10.00%
2H22909-CCV7	Iron (dissolved)	10000	10750	108	ug/L	+/- 10.00%
	Manganese (dissolved)	**1000**	**1117**	**112**	**ug/L**	+/- 10.00%
2H22909-CCV8	Iron (dissolved)	10000	10610	106	ug/L	+/- 10.00%
	Manganese (dissolved)	**1000**	**1108**	**111**	**ug/L**	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2215002

Sequence: 2H21510

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H21510-CRL1	Iron (dissolved)	60.00	63.02	105	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.404	107	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2228001

Sequence: 2H22712

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H22712-CRL1	Calcium	2000	2158	108	ug/L	80 - 120
	Lead	3.000	3.332	111	ug/L	80 - 120
	Magnesium	3000	3380	113	ug/L	80 - 120
	Potassium	3000	3102	103	ug/L	80 - 120
	Sodium	3000	3220	107	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2234004

Sequence: 2H22909

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H22909-CRL1	Calcium	2000	2085	104	ug/L	80 - 120
	Iron (dissolved)	60.00	64.87	108	ug/L	80 - 120
	Lead	3.000	3.221	107	ug/L	80 - 120
	Magnesium	3000	3109	104	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.330	105	ug/L	80 - 120
	Potassium	3000	3103	103	ug/L	80 - 120
	Sodium	3000	3182	106	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2H21510
Calibration: 2215002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H21510-ICB1	Iron (dissolved)	1.114	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.001440	3.00	15.0	ug/L	U	SW6010B
2H21510-CCB1	Iron (dissolved)	-0.121	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0689	3.00	15.0	ug/L	U	SW6010B
2H21510-CCB7	Iron (dissolved)	-1.15	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0985	3.00	15.0	ug/L	U	SW6010B
2H01016-BLK1	Iron (dissolved)	1.17	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0165	3.00	15.0	ug/L	U	SW6010B
2H21510-CCB8	Iron (dissolved)	2.41	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.419	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2H22712
Calibration: 2228001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H22712-ICB1	Calcium	-1.970	1000	5000	ug/L	U	SW6010B
	Lead	0.6112	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.840	1000	5000	ug/L	U	SW6010B
	Potassium	5.110	1000	5000	ug/L	U	SW6010B
	Sodium	-2.760	1000	5000	ug/L	U	SW6010B
2H22712-CCB1	Calcium	-3.65	1000	5000	ug/L	U	SW6010B
	Lead	-0.153	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-7.93	1000	5000	ug/L	U	SW6010B
	Potassium	-14.6	1000	5000	ug/L	U	SW6010B
	Sodium	1.64	1000	5000	ug/L	U	SW6010B
2H22712-CCB3	Calcium	22.7	1000	5000	ug/L	U	SW6010B
	Lead	-0.632	1.50	3.00	ug/L	U	SW6010B
	Magnesium	18.1	1000	5000	ug/L	U	SW6010B
	Potassium	22.1	1000	5000	ug/L	U	SW6010B
	Sodium	13.6	1000	5000	ug/L	U	SW6010B
2H02010-BLK1	Calcium	4.85	1000	5000	ug/L	U	SW6010B
	Lead	0.129	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-6.61	1000	5000	ug/L	U	SW6010B
	Potassium	55.0	1000	5000	ug/L	U	SW6010B
	Sodium	85.9	1000	5000	ug/L	U	SW6010B
2H22712-CCB4	Calcium	2.82	1000	5000	ug/L	U	SW6010B
	Lead	-0.135	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-12.9	1000	5000	ug/L	U	SW6010B
	Potassium	20.8	1000	5000	ug/L	U	SW6010B
	Sodium	13.8	1000	5000	ug/L	U	SW6010B
2H22712-CCB5	Calcium	-0.690	1000	5000	ug/L	U	SW6010B
	Lead	1.07	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-21.6	1000	5000	ug/L	U	SW6010B
	Potassium	15.8	1000	5000	ug/L	U	SW6010B
	Sodium	9.90	1000	5000	ug/L	U	SW6010B
2H08013-BLK1	Lead	-0.456	1.50	3.00	ug/L	U	SW6010B
	Magnesium	104	1000	5000	ug/L	U	SW6010B
	Potassium	19.5	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2H22712
Calibration: 2228001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H08013-BLK1	Sodium	75.0	1000	5000	ug/L	U	SW6010B
2H22712-CCB6	Calcium	1.29	1000	5000	ug/L	U	SW6010B
	Lead	0.0156	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-9.90	1000	5000	ug/L	U	SW6010B
	Potassium	42.0	1000	5000	ug/L	U	SW6010B
	Sodium	21.6	1000	5000	ug/L	U	SW6010B
2H22712-CCB7	Calcium	5.85	1000	5000	ug/L	U	SW6010B
	Lead	-0.103	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.86	1000	5000	ug/L	U	SW6010B
	Potassium	125	1000	5000	ug/L	U	SW6010B
	Sodium	654	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2H22909
Calibration: 2234004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H22909-ICB1	Calcium	-1.450	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.5033	30.0	100	ug/L	U	SW6010B
	Lead	-0.3261	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-12.40	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	-0.07720	3.00	15.0	ug/L	U	SW6010B
	Potassium	-14.27	1000	5000	ug/L	U	SW6010B
	Sodium	-24.25	1000	5000	ug/L	U	SW6010B
2H22909-CCB1	Calcium	-3.71	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.28	30.0	100	ug/L	U	SW6010B
	Lead	1.23	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-14.2	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0136	3.00	15.0	ug/L	U	SW6010B
	Potassium	-3.73	1000	5000	ug/L	U	SW6010B
	Sodium	-4.75	1000	5000	ug/L	U	SW6010B
2H08013-BLK2	Calcium	933	1000	5000	ug/L	U	SW6010B
2H22909-CCB2	Calcium	16.8	1000	5000	ug/L	U	SW6010B
	Lead	0.616	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.7	1000	5000	ug/L	U	SW6010B
	Potassium	67.8	1000	5000	ug/L	U	SW6010B
	Sodium	550	1000	5000	ug/L	U	SW6010B
2H22909-CCB6	Iron (dissolved)	-2.06	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.0470	3.00	15.0	ug/L	U	SW6010B
2H14008-BLK1	Iron (dissolved)	-3.53	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.0426	3.00	15.0	ug/L	U	SW6010B
2H22909-CCB7	Iron (dissolved)	-5.27	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.00677	3.00	15.0	ug/L	U	SW6010B
2H22909-CCB8	Iron (dissolved)	-0.378	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.164	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2215002
Sequence: 2H21510

Lab Sample ID	Analyte	True	Found	%R	Units
2H21510-IFA1	Iron (dissolved)	200000	212,260.00	106	ug/L
	Manganese (dissolved)		-4.73		ug/L
2H21510-IFB1	Iron (dissolved)	200000	210,390.00	105	ug/L
	Manganese (dissolved)	500.0	491.51	98.3	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2228001
Sequence: 2H22712

Lab Sample ID	Analyte	True	Found	%R	Units
2H22712-IFA1	Calcium	500000	517,040.00	103	ug/L
	Lead		1.87		ug/L
	Magnesium	500000	533,560.00	107	ug/L
	Potassium		-27.70		ug/L
	Sodium		45.55		ug/L
2H22712-IFB1	Calcium	500000	521,130.00	104	ug/L
	Lead	50.00	48.21	96.4	ug/L
	Magnesium	500000	534,600.00	107	ug/L
	Potassium		-53.14		ug/L
	Sodium		47.33		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2234004
Sequence: 2H22909

Lab Sample ID	Analyte	True	Found	%R	Units
2H22909-IFA1	Calcium	500000	486,810.00	97.4	ug/L
	Iron (dissolved)	200000	202,850.00	101	ug/L
	Lead		5.76		ug/L
	Magnesium	500000	489,090.00	97.8	ug/L
	Manganese (dissolved)		-4.69		ug/L
	Potassium		-61.39		ug/L
	Sodium		75.87		ug/L
2H22909-IFB1	Calcium	500000	505,640.00	101	ug/L
	Iron (dissolved)	200000	205,000.00	102	ug/L
	Lead	50.00	52.72	105	ug/L
	Magnesium	500000	498,280.00	99.7	ug/L
	Manganese (dissolved)	500.0	491.72	98.3	ug/L
	Potassium		-35.41		ug/L
	Sodium		59.58		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H01016	Laboratory ID:	2H01016-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	1024	102	80 - 120
Manganese (dissolved)	500.0	505.2	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H02010	Laboratory ID:	2H02010-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	5156	103	80 - 120
Lead	250.0	250.5	100	80 - 120
Magnesium	5000	5237	105	80 - 120
Potassium	5000	5016	100	80 - 120
Sodium	5000	5189	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H08013	Laboratory ID:	2H08013-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	5998	120	80 - 120
Lead	250.0	254.5	102	80 - 120
Magnesium	5000	5459	109	80 - 120
Potassium	5000	5138	103	80 - 120
Sodium	5000	5384	108	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H14008	Laboratory ID:	2H14008-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	1119	112	80 - 120
Manganese (dissolved)	500.0	557.8	112	80 - 120

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_059

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_059

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_059

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_059

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_059

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_059

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	589.6	0.0000000				
Sodium	589.6	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_059

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 12/30/2011

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H01016 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-02	08/01/12 12:01	50.00	50.00
GW0678	1208005-04	08/01/12 12:01	50.00	50.00
GW0679	1208005-06	08/01/12 12:01	50.00	50.00
GW0680	1208005-08	08/01/12 12:01	50.00	50.00
GW0697	1208005-10	08/01/12 12:01	50.00	50.00
Blank	2H01016-BLK1	08/01/12 12:01	50.00	50.00
LCS	2H01016-BS1	08/01/12 12:01	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H02010 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/02/12 09:13	50.00	50.00
GW0678	1208005-03	08/02/12 09:13	50.00	50.00
GW0679	1208005-05	08/02/12 09:13	50.00	50.00
GW0680	1208005-07	08/02/12 09:13	50.00	50.00
GW0697	1208005-09	08/02/12 09:13	50.00	50.00
GW0698	1208005-11	08/02/12 09:13	50.00	50.00
GW0723	1208005-13	08/02/12 09:13	50.00	50.00
GW0724	1208005-15	08/02/12 09:13	50.00	50.00
GW0725	1208005-17	08/02/12 09:13	50.00	50.00
GW0726	1208005-19	08/02/12 09:13	50.00	50.00
Blank	2H02010-BLK1	08/02/12 09:13	50.00	50.00
LCS	2H02010-BS1	08/02/12 09:13	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H08013 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/08/12 11:02	50.00	50.00
GW0639	1208028-03	08/08/12 11:02	50.00	50.00
GW0649	1208028-05	08/08/12 11:02	50.00	50.00
GW0650	1208028-07	08/08/12 11:02	50.00	50.00
GW0662	1208028-09	08/08/12 11:02	50.00	50.00
GW0663	1208028-11	08/08/12 11:02	50.00	50.00
GW0677	1208028-13	08/08/12 11:02	50.00	50.00
GW0710	1208028-15	08/08/12 11:02	50.00	50.00
GW0711	1208028-17	08/08/12 11:02	50.00	50.00
GW0712	1208028-19	08/08/12 11:02	50.00	50.00
Blank	2H08013-BLK1	08/08/12 11:02	50.00	50.00
Blank	2H08013-BLK2	08/08/12 11:02	50.00	50.00
LCS	2H08013-BS1	08/08/12 11:02	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H14008 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0698	1208005-12	08/14/12 08:46	50.00	50.00
GW0723	1208005-14	08/14/12 08:46	50.00	50.00
GW0724	1208005-16	08/14/12 08:46	50.00	50.00
GW0725	1208005-18	08/14/12 08:46	50.00	50.00
GW0726	1208005-20	08/14/12 08:46	50.00	50.00
GW0631	1208028-02	08/14/12 08:46	50.00	50.00
GW0639	1208028-04	08/14/12 08:46	50.00	50.00
GW0649	1208028-06	08/14/12 08:46	50.00	50.00
GW0650	1208028-08	08/14/12 08:46	50.00	50.00
GW0662	1208028-10	08/14/12 08:46	50.00	50.00
GW0663	1208028-12	08/14/12 08:46	50.00	50.00
GW0677	1208028-14	08/14/12 08:46	50.00	50.00
GW0710	1208028-16	08/14/12 08:46	50.00	50.00
GW0711	1208028-18	08/14/12 08:46	50.00	50.00
GW0712	1208028-20	08/14/12 08:46	50.00	50.00
Blank	2H14008-BLK1	08/14/12 08:46	50.00	50.00
LCS	2H14008-BS1	08/14/12 08:46	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21510	Instrument:	ME-ICP
Calibration:	2215002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21510-CAL1	080112A-001	08/01/12 10:02
Cal Standard	2H21510-CAL3	080112A-003	08/01/12 10:10
Cal Standard	2H21510-CAL4	080112A-004	08/01/12 10:15
Cal Standard	2H21510-CAL5	080112A-005	08/01/12 10:20
Cal Standard	2H21510-CAL2	080112A-009	08/01/12 10:42
Cal Standard	2H21510-CAL6	080112A-010	08/01/12 10:47
Initial Cal Check	2H21510-ICV1	080112B-001	08/01/12 11:20
Initial Cal Blank	2H21510-ICB1	080112B-002	08/01/12 11:29
Instrument RL Check	2H21510-CRL1	080112B-004	08/01/12 11:41
Interference Check A	2H21510-IFA1	080112B-006	08/01/12 11:51
Interference Check B	2H21510-IFB1	080112B-007	08/01/12 11:56
Calibration Check	2H21510-CCV1	080112B-009	08/01/12 12:07
Calibration Blank	2H21510-CCB1	080112B-010	08/01/12 12:15
Calibration Check	2H21510-CCV7	080112C-072	08/01/12 19:13
Calibration Blank	2H21510-CCB7	080112C-073	08/01/12 19:21
Blank	2H01016-BLK1	080112C-074	08/01/12 19:25
LCS	2H01016-BS1	080112C-075	08/01/12 19:30
GW0661	1208005-02	080112C-083	08/01/12 20:08
GW0678	1208005-04	080112C-084	08/01/12 20:13
GW0679	1208005-06	080112C-085	08/01/12 20:17
GW0680	1208005-08	080112C-086	08/01/12 20:22
GW0697	1208005-10	080112C-087	08/01/12 20:26
Calibration Check	2H21510-CCV8	080112C-088	08/01/12 20:31
Calibration Blank	2H21510-CCB8	080112C-089	08/01/12 20:39

ANALYSIS SEQUENCE SUMMARY
SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22712	Instrument:	ME-ICP
Calibration:	2228001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H22712-CAL1	081312A-001	08/13/12 09:31
Cal Standard	2H22712-CAL2	081312A-002	08/13/12 09:35
Cal Standard	2H22712-CAL3	081312A-003	08/13/12 09:39
Cal Standard	2H22712-CAL5	081312A-005	08/13/12 09:48
Cal Standard	2H22712-CAL6	081312A-006	08/13/12 09:53
Cal Standard	2H22712-CAL7	081312A-007	08/13/12 09:59
Cal Standard	2H22712-CAL8	081312A-008	08/13/12 10:03
Initial Cal Check	2H22712-ICV1	081312B-001	08/13/12 10:40
Initial Cal Blank	2H22712-ICB1	081312B-002	08/13/12 10:47
Instrument RL Check	2H22712-CRL1	081312B-003	08/13/12 10:52
Interference Check A	2H22712-IFA1	081312B-007	08/13/12 11:11
Interference Check B	2H22712-IFB1	081312B-008	08/13/12 11:16
Calibration Check	2H22712-CCV1	081312B-010	08/13/12 11:27
Calibration Blank	2H22712-CCB1	081312B-011	08/13/12 11:34
Calibration Check	2H22712-CCV3	081312B-037	08/13/12 13:41
Calibration Blank	2H22712-CCB3	081312B-038	08/13/12 13:49
Blank	2H02010-BLK1	081312C-009	08/13/12 14:36
LCS	2H02010-BS1	081312C-010	08/13/12 14:41
GW0661	1208005-01	081312C-011	08/13/12 14:47
GW0678	1208005-03	081312C-012	08/13/12 14:51
GW0679	1208005-05	081312C-013	08/13/12 14:56
GW0680	1208005-07	081312C-014	08/13/12 15:00
GW0697	1208005-09	081312C-015	08/13/12 15:05
Calibration Check	2H22712-CCV4	081312C-016	08/13/12 15:10
Calibration Blank	2H22712-CCB4	081312C-017	08/13/12 15:18
GW0698	1208005-11	081312C-018	08/13/12 15:22
GW0723	1208005-13	081312C-019	08/13/12 15:26
GW0724	1208005-15	081312C-020	08/13/12 15:31
GW0725	1208005-17	081312C-021	08/13/12 15:35
GW0726	1208005-19	081312C-022	08/13/12 15:40
Calibration Check	2H22712-CCV5	081312C-030	08/13/12 16:17
Calibration Blank	2H22712-CCB5	081312C-031	08/13/12 16:24

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22712	Instrument:	ME-ICP
Calibration:	2228001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	2H08013-BLK1	081312C-032	08/13/12 16:29
LCS	2H08013-BS1	081312C-033	08/13/12 16:33
GW0631	1208028-01	081312C-036	08/13/12 16:49
GW0639	1208028-03	081312C-037	08/13/12 16:53
GW0649	1208028-05	081312C-038	08/13/12 16:58
GW0650	1208028-07	081312C-039	08/13/12 17:02
GW0662	1208028-09	081312C-040	08/13/12 17:07
GW0663	1208028-11	081312C-041	08/13/12 17:11
GW0677	1208028-13	081312C-042	08/13/12 17:15
GW0710	1208028-15	081312C-043	08/13/12 17:20
Calibration Check	2H22712-CCV6	081312C-044	08/13/12 17:25
Calibration Blank	2H22712-CCB6	081312C-045	08/13/12 17:33
GW0711	1208028-17	081312C-046	08/13/12 17:37
GW0712	1208028-19	081312C-047	08/13/12 17:42
Calibration Check	2H22712-CCV7	081312C-061	08/13/12 18:48
Calibration Blank	2H22712-CCB7	081312C-062	08/13/12 18:56

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22909	Instrument:	ME-ICP
Calibration:	2234004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H22909-CAL1	081612A-001	08/16/12 09:32
Cal Standard	2H22909-CAL1	081612A-001	08/16/12 09:32
Cal Standard	2H22909-CAL2	081612A-002	08/16/12 09:36
Cal Standard	2H22909-CAL2	081612A-002	08/16/12 09:36
Cal Standard	2H22909-CAL3	081612A-003	08/16/12 09:40
Cal Standard	2H22909-CAL3	081612A-003	08/16/12 09:40
Cal Standard	2H22909-CAL4	081612A-004	08/16/12 09:45
Cal Standard	2H22909-CAL5	081612A-005	08/16/12 09:49
Cal Standard	2H22909-CAL5	081612A-005	08/16/12 09:49
Cal Standard	2H22909-CAL6	081612A-006	08/16/12 09:54
Cal Standard	2H22909-CAL6	081612A-006	08/16/12 09:54
Cal Standard	2H22909-CAL7	081612A-007	08/16/12 09:59
Cal Standard	2H22909-CAL8	081612A-008	08/16/12 10:03
Initial Cal Check	2H22909-ICV1	081612B-001	08/16/12 10:34
Initial Cal Check	2H22909-ICV1	081612B-001	08/16/12 10:34
Initial Cal Blank	2H22909-ICB1	081612B-002	08/16/12 10:41
Initial Cal Blank	2H22909-ICB1	081612B-002	08/16/12 10:41
Instrument RL Check	2H22909-CRL1	081612B-003	08/16/12 10:46
Instrument RL Check	2H22909-CRL1	081612B-003	08/16/12 10:46
Interference Check A	2H22909-IFA1	081612B-008	08/16/12 11:21
Interference Check A	2H22909-IFA1	081612B-008	08/16/12 11:21
Interference Check B	2H22909-IFB1	081612B-009	08/16/12 11:27
Interference Check B	2H22909-IFB1	081612B-009	08/16/12 11:27
Calibration Check	2H22909-CCV1	081612C-001	08/16/12 11:37
Calibration Check	2H22909-CCV1	081612C-001	08/16/12 11:37
Calibration Blank	2H22909-CCB1	081612C-002	08/16/12 11:44
Calibration Blank	2H22909-CCB1	081612C-002	08/16/12 11:44
Blank	2H08013-BLK2	081612C-003	08/16/12 11:49
Calibration Check	2H22909-CCV2	081612C-015	08/16/12 12:46
Calibration Blank	2H22909-CCB2	081612C-016	08/16/12 12:54
Calibration Check	2H22909-CCV6	081612D-016	08/16/12 16:37
Calibration Blank	2H22909-CCB6	081612D-017	08/16/12 16:45

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22909	Instrument:	ME-ICP
Calibration:	2234004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	2H14008-BLK1	081612D-018	08/16/12 16:49
LCS	2H14008-BS1	081612D-019	08/16/12 16:54
GW0698	1208005-12	081612D-020	08/16/12 17:00
GW0723	1208005-14	081612D-021	08/16/12 17:05
GW0724	1208005-16	081612D-022	08/16/12 17:09
GW0725	1208005-18	081612D-023	08/16/12 17:13
GW0726	1208005-20	081612D-024	08/16/12 17:18
GW0631	1208028-02	081612D-025	08/16/12 17:22
GW0639	1208028-04	081612D-026	08/16/12 17:27
GW0649	1208028-06	081612D-027	08/16/12 17:31
GW0650	1208028-08	081612D-028	08/16/12 17:36
GW0662	1208028-10	081612D-029	08/16/12 17:40
Calibration Check	2H22909-CCV7	081612D-030	08/16/12 17:45
Calibration Blank	2H22909-CCB7	081612D-031	08/16/12 17:53
GW0663	1208028-12	081612D-032	08/16/12 17:57
GW0677	1208028-14	081612D-033	08/16/12 18:02
GW0710	1208028-16	081612D-034	08/16/12 18:06
GW0711	1208028-18	081612D-035	08/16/12 18:11
GW0712	1208028-20	081612D-036	08/16/12 18:16
Calibration Check	2H22909-CCV8	081612D-045	08/16/12 18:57
Calibration Blank	2H22909-CCB8	081612D-046	08/16/12 19:05

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2215002	Instrument:	ME-ICP	
Matrix:	Water	Calibration Dates:	8/1/12_10:02	8/1/12_10:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.753E-05	10000	2.6918E-05			500000	2.6974E-05		
Antimony	0	0	100	0.0004655	1000	4.9793E-04					10000	4.8937E-04
Arsenic	0	0	100	0.0002926	1000	3.0705E-04					10000	3.0514E-04
Barium	0	0	50	0.0102564	1000	0.0095411	5000	0.0098142				
Beryllium	0	0	100	0.002874	1000	0.0028042					10000	0.0027261
Boron	0	0	50	0.0000236	1000	2.228E-05					5000	2.1968E-05
Cadmium	0	0	100	0.018718	1000	0.018247					10000	0.017619
Calcium	0	0	1100	8.057272E-05	50000	7.4674E-05					10000	
Chromium	0	0	100	0.0000616	1000	5.889E-05					10000	5.8181E-05
Cobalt	0	0	100	0.0052168	1000	0.0050079					10000	0.0050841
Copper	0	0	100	9.840001E-05	1000	9.098E-05					10000	9.107E-05
Iron	0	0	5100	2.409216E-05	10000	2.2315E-05			500000	2.1606E-05	10000	
Lead	0	0	100	0.00133	1000	0.0012651					10000	0.0012951
Magnesium	0	0	5100		50000	2.309E-06			500000	2.3206E-06	10000	
Manganese	0	0	100	0.0004093	1000	3.9148E-04	10000	3.8274E-04			10000	
Molybdenum	0	0	100	0.003464	1000	0.0034659					10000	0.003458
Nickel	0	0	100	0.0027687	1000	0.0026861					10000	0.0026831
Potassium	0	0	1000	1.561E-05	10000	1.6607E-05						
Selenium	0	0	100	0.0003876	1000	0.0003777					10000	0.0003667
Silver	0	0	20	0.000068	500	6.084E-05	2000	6.396E-05				
Sodium	0	0	1000		50000	6.694E-05						
Strontium	0	0	100	0.002204	1000	0.002129					10000	0.002091
Thallium	0	0	100	0.0007	1000	6.9216E-04					10000	7.0259E-04
Tin	0	0	50	0.0012804	1000	0.0012729					5000	1.28266E-03
Titanium	0	0	100	0.0002591	1000	2.5304E-04					10000	2.5224E-04
Vanadium	0	0	100	0.0000611	1000	5.841E-05					10000	5.7566E-05
Zinc	0	0	100	0.0072322	1000	0.0070806					10000	0.0070435

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2215002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/1/12 10:02 8/1/12 10:47

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	7.3684E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.3223E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.717E-05										
Selenium												
Silver												
Sodium	100000	6.6366E-05	500000	6.488201E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2215002	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	8/1/12 10:02	8/1/12 10:47	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.03555E-05	66.68048	14.0208	194.68	0.9999999		0.998	
Antimony	0.0003632	66.77364	2.024883	138.8732	0.9999951		0.998	
Arsenic	2.261975E-04	66.72685	2.271337	147.6464	0.999999		0.998	
Barium	7.402925E-03	66.78544	1.5287	159.7797	0.9999632		0.998	
Beryllium	2.101075E-03	66.72864	15.25686	192.3274	0.9999929		0.998	
Boron	1.6962E-05	66.79697	3.242698	152.7662	0.9999941		0.998	
Cadmium	0.013646	66.74824	10.77323	192.0328	0.9999889		0.998	
Calcium	5.723268E-05	66.87808	2.788805	169.4432	0.9999984		0.998	
Chromium	4.466775E-05	66.74821	191.7621	199.0515	0.9999988		0.998	
Cobalt	0.0038272	66.70481	2.664705	175.7051	0.9999972		0.998	
Copper	7.01125E-05	66.85084	1.465387	88.29884	0.9999993		0.998	
Iron	1.700329E-05	66.94974	102.5295	198.5387	0.9999991		0.998	
Lead	9.7255E-04	66.72241	9.194898	186.7618	0.9999937		0.998	
Magnesium	1.737975E-06	66.66753	30.30807	197.4214	0.9999996		0.998	
Manganese	2.9588E-04	66.77123	13.21121	189.5358	0.9999958		0.998	
Molybdenum	2.596975E-03	66.66679	5.067732	185.2109	0.9999999		0.998	
Nickel	2.034475E-03	66.69517	39.28774	197.8945	0.9999999		0.998	
Potassium	1.234675E-05	66.87105	13.5276	192.4322	0.9999934		0.998	
Selenium	0.000283	66.73487	3.560847	162.4308	0.9999935		0.998	
Silver	0.0000482	66.94344	5.71432	161.1816	0.9998175		0.998	
Sodium	4.9547E-05	66.68963	5.191632	183.584	0.999979		0.998	
Strontium	0.001606	66.73073	1.62935	157.334	0.9999972		0.998	
Thallium	5.236875E-04	66.67204	8.091278	188.5501	0.9999981		0.998	
Tin	9.5899E-04	66.66808	8.313815	187.0566	0.9999977		0.998	
Titanium	1.91095E-04	66.68593	11.49095	193.4024	0.9999999		0.998	
Vanadium	4.4269E-05	66.75352	1.38249	96.34528	0.9999988		0.998	
Zinc	5.339075E-03	66.68419	2909.993	199.9777	0.9999998		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2228001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/13/12 9:31 8/13/12 10:03

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	3.4248E-05	10000	3.3871E-05			500000	3.2566E-05		
Antimony	0	0	100	0.0004502	1000	4.7396E-04					10000	4.7039E-04
Arsenic	0	0	100	0.0002917	1000	3.1233E-04					10000	3.0966E-04
Barium	0	0	50	0.0107036	1000	0.010031	5000	0.0104074				
Beryllium	0	0	100	0.0031995	1000	0.0031689					10000	0.0031665
Boron	0	0	50	0.000027	1000	2.441E-05					5000	2.423E-05
Cadmium	0	0	100	0.019234	1000	0.018944					10000	0.018366
Calcium	0	0	1100	9.213637E-05	50000	8.6818E-05					10000	
Chromium	0	0	100	0.0000716	1000	6.837E-05					10000	7.0011E-05
Cobalt	0	0	100	0.0051594	1000	0.0049958					10000	0.0050968
Copper	0	0	100	0.0001066	1000	9.598E-05					10000	9.7105E-05
Iron	0	0	5100	2.974118E-05	10000	2.837E-05			500000	2.7258E-05	10000	
Lead	0	0	100	0.0013274	1000	0.001275					10000	0.0013055
Magnesium	0	0	5100		50000	3.0068E-06			500000	2.9464E-06	10000	
Manganese	0	0	100	0.0004535	1000	4.3237E-04	10000	4.2744E-04			10000	
Molybdenum	0	0	100	0.0033321	1000	0.003419					10000	0.0034174
Nickel	0	0	100	0.0026282	1000	0.0025752					10000	0.0026002
Potassium	0	0	1000	1.974E-05	10000	2.3666E-05						
Selenium	0	0	100	0.0003868	1000	3.7602E-04					10000	3.6703E-04
Silver	0	0	20	0.000095	500	0.0000879	2000	8.996E-05				
Sodium	0	0	1000		50000	7.390601E-05						
Strontium	0	0	100	0.002405	1000	0.002369					10000	0.002407
Thallium	0	0	100	0.000709	1000	7.1975E-04					10000	7.2998E-04
Tin	0	0	50	0.0013052	1000	0.0013275					5000	1.34482E-03
Titanium	0	0	100	0.0002807	1000	2.8094E-04					10000	2.8321E-04
Vanadium	0	0	100	0.0000691	1000	6.595E-05					10000	6.6625E-05
Zinc	0	0	100	0.0074958	1000	0.007428					10000	0.0074176

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2228001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/13/12 9:31 8/13/12 10:03

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	8.692199E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.9399E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	2.445E-05										
Selenium												
Silver												
Sodium	100000	7.3267E-05	500000	7.273001E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2228001	Instrument:	ME-ICP	
Matrix:	Water	Calibration Dates:	8/13/12 9:31	8/13/12 10:03

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.517125E-05	66.72812	2.850433	159.8266	0.9999994		0.998	
Antimony	3.486375E-04	66.73416	16.22276	184.8039	0.9999989		0.998	
Arsenic	2.284225E-04	66.78719	8.56859	187.3777	0.9999981		0.998	
Barium	0.0077855	66.76033	1.379663	137.5078	0.9999399		0.998	
Beryllium	2.383725E-03	66.66965	67.19856	198.2797	1		0.998	
Boron	1.891E-05	67.00172	1.773005	83.51885	0.9999997		0.998	
Cadmium	0.014136	66.71551	1.028613	115.7066	0.9999912		0.998	
Calcium	6.646909E-05	66.77124	1.927428	177.094	1		0.998	
Chromium	5.249525E-05	66.71398	7.403048	174.7654	0.9999939		0.998	
Cobalt	0.003813	66.6901	4.12376	176.9814	0.9999956		0.998	
Copper	7.492125E-05	66.96915	1.200375	82.45494	0.9999956		0.998	
Iron	2.134229E-05	66.83629	51.19255	198.3982	0.9999993		0.998	
Lead	9.76975E-04	66.70294	38.10636	196.9468	0.999994		0.998	
Magnesium	2.223275E-06	66.68043	41.07789	198.3746	0.9999944		0.998	
Manganese	3.283275E-04	66.7555	6.52088	182.3635	0.999999		0.998	
Molybdenum	2.542125E-03	66.68578	4.769023	181.7994	0.9999999		0.998	
Nickel	0.0019509	66.6759	52.3059	197.9819	0.999999		0.998	
Potassium	1.6964E-05	67.76416	3.759742	128.667	0.9999979		0.998	
Selenium	2.824625E-04	66.72804	11.25068	181.3898	0.999996		0.998	
Silver	6.8215E-05	66.80988	2.652075	154.7323	0.999956		0.998	
Sodium	5.497575E-05	66.6724	6.991763	180.5397	0.999997		0.998	
Strontium	1.79525E-03	66.67376	4.670075	167.2221	0.9999976		0.998	
Thallium	5.396825E-04	66.68556	7.12324	180.7519	0.9999988		0.998	
Tin	9.9438E-04	66.68661	3.541215	178.6471	0.999994		0.998	
Titanium	2.112125E-04	66.66882	23.95627	194.9873	0.9999995		0.998	
Vanadium	5.041875E-05	66.72075	3.407213	148.1331	0.9999983		0.998	
Zinc	5.58535E-03	66.66956	1.463768	156.1768	1		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_059	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2234004		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	8/16/12 9:32	8/16/12 10:03

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	2.2212E-05	10000	2.1996E-05			500000	2.171E-05		
Antimony	0	0	100	0.0005192	1000	5.4215E-04					10000	0.0005502
Arsenic	0	0	100	0.0002743	1000	2.9155E-04					10000	2.9023E-04
Barium	0	0	50	0.0101404	1000	9.495401E-03	5000	0.0099604				
Beryllium	0	0	100	0.0023103	1000	0.0022817					10000	0.00216
Boron	0	0	50	0.0000154	1000	1.471E-05					5000	1.4114E-05
Cadmium	0	0	100	0.017455	1000	0.017254					10000	0.016841
Calcium	0	0	1100	6.170909E-05	50000	5.7408E-05					10000	
Chromium	0	0	100	0.0000513	1000	4.861E-05					10000	4.8847E-05
Cobalt	0	0	100	0.004627	1000	0.0044689					10000	0.0046031
Copper	0	0	100	0.0000644	1000	5.648E-05					10000	5.4617E-05
Iron	0	0	5100	1.956275E-05	10000	1.8644E-05			500000	1.80774E-05	10000	
Lead	0	0	100	0.0011706	1000	0.0011325					10000	0.001173
Magnesium	0	0	5100		50000	2.0514E-06			500000	2.0188E-06	10000	
Manganese	0	0	100	0.000274	1000	2.5685E-04	10000	0.0002518			10000	
Molybdenum	0	0	100	0.0030612	1000	0.0031328					10000	0.0031419
Nickel	0	0	100	0.0030501	1000	0.0029513					10000	0.0030384
Potassium	0	0	1000	1.331E-05	10000	1.5952E-05						
Selenium	0	0	100	0.0003407	1000	3.3652E-04					10000	3.3181E-04
Silver	0	0	20	0.0000605	500	5.476E-05	2000	5.6505E-05				
Sodium	0	0	1000		50000	5.0418E-05						
Strontium	0	0	100	0.00159	1000	0.001554					10000	0.001518
Thallium	0	0	100	0.000671	1000	6.7282E-04					10000	0.0006887
Tin	0	0	50	0.0011948	1000	0.0012192					5000	1.24824E-03
Titanium	0	0	100	0.0001818	1000	1.7921E-04					10000	0.000172
Vanadium	0	0	100	0.0000461	1000	4.397E-05					10000	4.3488E-05
Zinc	0	0	100	0.0068686	1000	0.0068232					10000	0.0068385
Aluminum	0	0	5000	2.2212E-05	10000	2.1996E-05			500000	2.171E-05		
Antimony	0	0	100	0.0005192	1000	5.4215E-04					10000	0.0005502
Arsenic	0	0	100	0.0002743	1000	2.9155E-04					10000	2.9023E-04
Barium	0	0	50	0.0101404	1000	9.495401E-03	5000	0.0099604				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2234004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/16/12 9:32 8/16/12 10:03

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	0.0023103	1000	0.0022817					10000	0.00216
Boron	0	0	50	0.0000154	1000	1.471E-05					5000	1.4114E-05
Cadmium	0	0	100	0.017455	1000	0.017254					10000	0.016841
Calcium	0	0	1100	6.170909E-05	50000	5.7408E-05					10000	
Chromium	0	0	100	0.0000513	1000	4.861E-05					10000	4.8847E-05
Cobalt	0	0	100	0.004627	1000	0.0044689					10000	0.0046031
Copper	0	0	100	0.0000644	1000	5.648E-05					10000	5.4617E-05
Iron	0	0	5100	1.956275E-05	10000	1.8644E-05			500000	1.80774E-05	10000	
Lead	0	0	100	0.0011706	1000	0.0011325					10000	0.001173
Magnesium	0	0	5100		50000	2.0514E-06			500000	2.0188E-06	10000	
Manganese	0	0	100	0.000274	1000	2.5685E-04	10000	0.0002518			10000	
Molybdenum	0	0	100	0.0030612	1000	0.0031328					10000	0.0031419
Nickel	0	0	100	0.0030501	1000	0.0029513					10000	0.0030384
Potassium	0	0	1000	1.331E-05	10000	1.5952E-05						
Selenium	0	0	100	0.0003407	1000	3.3652E-04					10000	3.3181E-04
Silver	0	0	20	0.0000605	500	5.476E-05	2000	5.6505E-05				
Sodium	0	0	1000		50000	5.0418E-05						
Strontium	0	0	100	0.00159	1000	0.001554					10000	0.001518
Thallium	0	0	100	0.000671	1000	6.7282E-04					10000	0.0006887
Tin	0	0	50	0.0011948	1000	0.0012192					5000	1.24824E-03
Titanium	0	0	100	0.0001818	1000	1.7921E-04					10000	0.000172
Vanadium	0	0	100	0.0000461	1000	4.397E-05					10000	4.3488E-05
Zinc	0	0	100	0.0068686	1000	0.0068232					10000	0.0068385

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2234004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/16/12 9:32 8/16/12 10:03

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	5.5562E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.9495E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5901E-05										
Selenium												
Silver												
Sodium	100000	4.9368E-05	500000	4.7894E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2234004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/16/12 9:32 8/16/12 10:03

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	5.5562E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.9495E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5901E-05										
Selenium												
Silver												
Sodium	100000	4.9368E-05	500000	4.7894E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_059	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2234004		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	8/16/12 9:32	8/16/12 10:03

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.64795E-05	66.67834	3.459053	165.6481	0.9999999		0.998	
Antimony	4.028875E-04	66.74632	4.085408	169.8821	0.9999989		0.998	
Arsenic	2.1402E-04	66.76721	1.57651	109.6515	0.9999991		0.998	
Barium	7.39905E-03	66.76776	1.02519	147.1474	0.9999023		0.998	
Beryllium	0.001688	66.77835	132.2839	199.0348	0.9999711		0.998	
Boron	1.1056E-05	66.83587	1.674725	79.25478	0.9999345		0.998	
Cadmium	0.0128875	66.69616	4.86121	186.537	0.9999947		0.998	
Calcium	4.366977E-05	66.92701	2.450252	153.2746	0.9999897		0.998	
Chromium	3.718925E-05	66.74681	37.84135	197.2784	0.9999993		0.998	
Cobalt	3.42475E-03	66.69762	2.443747	174.6091	0.999991		0.998	
Copper	4.387425E-05	67.36392	1.583248	66.29448	0.9999952		0.998	
Iron	1.407104E-05	66.8084	27.29817	196.3338	0.9999995		0.998	
Lead	8.69025E-04	66.70084	110.0621	199.2438	0.9999882		0.998	
Magnesium	1.504925E-06	66.72643	281.2482	199.6462	0.9999324		0.998	
Manganese	1.956625E-04	66.84328	1.722585	118.5675	0.9999969		0.998	
Molybdenum	2.333975E-03	66.6846	4.367412	182.769	1		0.998	
Nickel	2.25995E-03	66.69519	23.53813	196.4841	0.9999916		0.998	
Potassium	1.129075E-05	67.55603	3.12291	138.2311	0.9999962		0.998	
Selenium	2.522575E-04	66.6822	4.098933	177.2178	0.9999987		0.998	
Silver	4.294125E-05	66.90104	7.16047	161.4133	0.9999251		0.998	
Sodium	3.692E-05	66.72561	3.790595	154.6202	0.9999559		0.998	
Strontium	0.0011655	66.71435	1.822475	101.6252	0.9999948		0.998	
Thallium	5.0813E-04	66.68502	5.030777	180.2699	0.9999958		0.998	
Tin	9.1556E-04	66.70935	3.10082	167.8387	0.9999792		0.998	
Titanium	1.332525E-04	66.73925	20.4752	194.8604	0.999984		0.998	
Vanadium	3.33895E-05	66.75326	7.552527	184.6037	0.9999992		0.998	
Zinc	5.132575E-03	66.66768	12.23962	194.7515	0.9999999		0.998	
Aluminum	1.64795E-05	66.67834	3.459053	165.6481	0.9999999		0.998	
Antimony	4.028875E-04	66.74632	4.085408	169.8821	0.9999989		0.998	
Arsenic	2.1402E-04	66.76721	1.57651	109.6515	0.9999991		0.998	
Barium	7.39905E-03	66.76776	1.02519	147.1474	0.9999023		0.998	
Beryllium	0.001688	66.77835	132.2839	199.0348	0.9999711		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2234004	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	8/16/12 9:32	8/16/12 10:03	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.1056E-05	66.83587	1.674725	79.25478	0.9999345		0.998	
Cadmium	0.0128875	66.69616	4.86121	186.537	0.9999947		0.998	
Calcium	4.366977E-05	66.92701	2.450252	153.2746	0.9999897		0.998	
Chromium	3.718925E-05	66.74681	37.84135	197.2784	0.9999993		0.998	
Cobalt	3.42475E-03	66.69762	2.443747	174.6091	0.999991		0.998	
Copper	4.387425E-05	67.36392	1.583248	66.29448	0.9999952		0.998	
Iron	1.407104E-05	66.8084	27.29817	196.3338	0.9999995		0.998	
Lead	8.69025E-04	66.70084	110.0621	199.2438	0.9999882		0.998	
Magnesium	1.504925E-06	66.72643	281.2482	199.6462	0.9999324		0.998	
Manganese	1.956625E-04	66.84328	1.722585	118.5675	0.9999969		0.998	
Molybdenum	2.333975E-03	66.6846	4.367412	182.769	1		0.998	
Nickel	2.25995E-03	66.69519	23.53813	196.4841	0.9999916		0.998	
Potassium	1.129075E-05	67.55603	3.12291	138.2311	0.9999962		0.998	
Selenium	2.522575E-04	66.6822	4.098933	177.2178	0.9999987		0.998	
Silver	4.294125E-05	66.90104	7.16047	161.4133	0.9999251		0.998	
Sodium	3.692E-05	66.72561	3.790595	154.6202	0.9999559		0.998	
Strontium	0.0011655	66.71435	1.822475	101.6252	0.9999948		0.998	
Thallium	5.0813E-04	66.68502	5.030777	180.2699	0.9999958		0.998	
Tin	9.1556E-04	66.70935	3.10082	167.8387	0.9999792		0.998	
Titanium	1.332525E-04	66.73925	20.4752	194.8604	0.999984		0.998	
Vanadium	3.33895E-05	66.75326	7.552527	184.6037	0.9999992		0.998	
Zinc	5.132575E-03	66.66768	12.23962	194.7515	0.9999999		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0661

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-01
Sampled:	07/31/12 11:56	Received:	08/01/12 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	2H15011	08/15/12 14:25
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:13
71-52-3	Alkalinity, Bicarbonate (as CACO3)	112	1.00	1.00	1.00	1		SM2320B	2H14005	08/14/12 09:17
16887-00-6	Chloride	35.0	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 01:21
NA	Nitrate/Nitrite as N	0.518	0.250	0.750	1.50	1	J	E353.2	2H20019	08/20/12 10:30
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H14005	08/14/12 09:17
14808-79-8	Sulfate as SO4	61.1	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 01:21

ANALYSIS DATA SHEET

GW0678

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-03
Sampled:	07/31/12 12:25	Received:	08/01/12 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	2H15011	08/15/12 14:26
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:14
71-52-3	Alkalinity, Bicarbonate (as CACO3)	86.1	1.00	1.00	1.00	1		SM2320B	2H14005	08/14/12 09:25
16887-00-6	Chloride	43.7	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 03:06
NA	Nitrate/Nitrite as N	1.26	0.250	0.750	1.50	1	J	E353.2	2H20019	08/20/12 10:31
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H14005	08/14/12 09:25
14808-79-8	Sulfate as SO4	76.4	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 03:06

ANALYSIS DATA SHEET

GW0679

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-05
Sampled:	07/31/12 12:25	Received:	08/01/12 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	2H15011	08/15/12 14:28
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:15
71-52-3	Alkalinity, Bicarbonate (as CACO3)	94.2	1.00	1.00	1.00	1		SM2320B	2H14005	08/14/12 09:30
16887-00-6	Chloride	43.8	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 03:23
NA	Nitrate/Nitrite as N	1.26	0.250	0.750	1.50	1	J	E353.2	2H20019	08/20/12 10:32
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H14005	08/14/12 09:30
14808-79-8	Sulfate as SO4	76.5	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 03:23

ANALYSIS DATA SHEET

GW0680

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-07
Sampled:	07/31/12 10:15	Received:	08/01/12 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	2H15011	08/15/12 14:30
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:16
71-52-3	Alkalinity, Bicarbonate (as CACO3)	92.6	1.00	1.00	1.00	1		SM2320B	2H14005	08/14/12 09:37
16887-00-6	Chloride	28.4	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 03:40
NA	Nitrate/Nitrite as N	0.799	0.250	0.750	1.50	1	J	E353.2	2H20019	08/20/12 10:34
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H14005	08/14/12 09:37
14808-79-8	Sulfate as SO4	55.7	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 03:40

ANALYSIS DATA SHEET

GW0697

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-09
Sampled:	07/30/12 15:22	Received:	08/01/12 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	2H15011	08/15/12 14:31
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:17
71-52-3	Alkalinity, Bicarbonate (as CACO3)	240	1.00	1.00	1.00	1		SM2320B	2H07008	08/07/12 10:35
16887-00-6	Chloride	11.6	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 03:58
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20019	08/20/12 10:35
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H07008	08/07/12 10:35
14808-79-8	Sulfate as SO4	17.7	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 03:58

ANALYSIS DATA SHEET

GW0698

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-11
Sampled:	07/30/12 12:05	Received:	08/01/12 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	2H15011	08/15/12 14:32
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:18
71-52-3	Alkalinity, Bicarbonate (as CACO3)	99.5	1.00	1.00	1.00	1		SM2320B	2H07008	08/07/12 10:53
16887-00-6	Chloride	8.60	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 04:15
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20019	08/20/12 10:37
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H07008	08/07/12 10:53
14808-79-8	Sulfate as SO4	30.4	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 04:15

ANALYSIS DATA SHEET

GW0723

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-13
Sampled:	07/30/12 15:51	Received:	08/01/12 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	2H15011	08/15/12 14:33
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:19
71-52-3	Alkalinity, Bicarbonate (as CACO3)	138	1.00	1.00	1.00	1		SM2320B	2H07008	08/07/12 11:00
16887-00-6	Chloride	21.7	0.170	0.330	0.500	1		E300.0	2H13019	08/14/12 04:33
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20019	08/20/12 10:38
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H07008	08/07/12 11:00
14808-79-8	Sulfate as SO4	42.1	0.330	1.00	2.50	1	M	E300.0	2H13019	08/14/12 04:33

ANALYSIS DATA SHEET

GW0724

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-15
Sampled:	07/30/12 13:42	Received:	08/01/12 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	2H15011	08/15/12 14:34
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:20
71-52-3	Alkalinity, Bicarbonate (as CACO3)	123	1.00	1.00	1.00	1		SM2320B	2H07008	08/07/12 11:07
16887-00-6	Chloride	32.3	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 06:34
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20019	08/20/12 10:40
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H07008	08/07/12 11:07
14808-79-8	Sulfate as SO4	51.8	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 06:34

ANALYSIS DATA SHEET

GW0725

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-17
Sampled:	07/30/12 13:42	Received:	08/01/12 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	2H15011	08/15/12 14:35
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:21
71-52-3	Alkalinity, Bicarbonate (as CACO3)	125	1.00	1.00	1.00	1		SM2320B	2H07008	08/07/12 11:12
16887-00-6	Chloride	32.2	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 06:52
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20019	08/20/12 10:41
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H07008	08/07/12 11:12
14808-79-8	Sulfate as SO4	51.6	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 06:52

ANALYSIS DATA SHEET

GW0726

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208005-19
Sampled:	07/30/12 11:36	Received:	08/01/12 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	2H15011	08/15/12 14:36
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:22
71-52-3	Alkalinity, Bicarbonate (as CACO3)	104	1.00	1.00	1.00	1		SM2320B	2H07008	08/07/12 11:20
16887-00-6	Chloride	7.24	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 07:09
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20019	08/20/12 10:43
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H07008	08/07/12 11:20
14808-79-8	Sulfate as SO4	28.5	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 07:09

ANALYSIS DATA SHEET

GW0631

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-01
Sampled:	08/02/12 11:05	Received:	08/03/12 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	2H21921	08/21/12 15:13
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:23
71-52-3	Alkalinity, Bicarbonate (as CACO3)	98.7	1.00	1.00	1.00	1		SM2320B	2H16004	08/16/12 08:10
16887-00-6	Chloride	19.0	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 08:19
NA	Nitrate/Nitrite as N	0.890	0.250	0.750	1.50	1	J	E353.2	2H20020	08/20/12 11:37
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H16004	08/16/12 08:10
14808-79-8	Sulfate as SO4	47.2	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 08:19

ANALYSIS DATA SHEET

GW0639

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-03
Sampled:	08/02/12 13:09	Received:	08/03/12 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	2H21921	08/21/12 15:14
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2H06007	08/06/12 12:24
71-52-3	Alkalinity, Bicarbonate (as CACO3)	114	1.00	1.00	1.00	1		SM2320B	2H16004	08/16/12 08:15
16887-00-6	Chloride	8.88	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 11:30
NA	Nitrate/Nitrite as N	0.304	0.250	0.750	1.50	1	J	E353.2	2H20020	08/20/12 11:39
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H16004	08/16/12 08:15
14808-79-8	Sulfate as SO4	30.0	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 11:30

ANALYSIS DATA SHEET

GW0649

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-05
Sampled:	08/02/12 12:15	Received:	08/03/12 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	2H21921	08/21/12 15:15
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:25
71-52-3	Alkalinity, Bicarbonate (as CACO3)	102	1.00	1.00	1.00	1		SM2320B	2H16004	08/16/12 08:25
16887-00-6	Chloride	70.2	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 11:48
NA	Nitrate/Nitrite as N	1.14	0.250	0.750	1.50	1	J	E353.2	2H20020	08/20/12 11:40
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H16004	08/16/12 08:25
14808-79-8	Sulfate as SO4	67.1	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 11:48

ANALYSIS DATA SHEET

GW0650

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-07
Sampled:	08/02/12 14:37	Received:	08/03/12 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	2H21921	08/21/12 15:17
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:26
71-52-3	Alkalinity, Bicarbonate (as CACO3)	121	1.00	1.00	1.00	1		SM2320B	2H16004	08/16/12 08:35
16887-00-6	Chloride	15.4	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 12:05
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20020	08/20/12 11:42
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H16004	08/16/12 08:35
14808-79-8	Sulfate as SO4	41.2	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 12:05

ANALYSIS DATA SHEET

GW0662

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-09
Sampled:	08/01/12 09:46	Received:	08/03/12 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	2H21921	08/21/12 15:19
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:27
71-52-3	Alkalinity, Bicarbonate (as CACO3)	114	1.00	1.00	1.00	1		SM2320B	2H15009	08/15/12 09:36
16887-00-6	Chloride	46.7	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 12:23
NA	Nitrate/Nitrite as N	0.866	0.250	0.750	1.50	1	J	E353.2	2H20020	08/20/12 11:43
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H15009	08/15/12 09:36
14808-79-8	Sulfate as SO4	75.5	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 12:23

ANALYSIS DATA SHEET

GW0663

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-11
Sampled:	07/31/12 14:29	Received:	08/03/12 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	2H21921	08/21/12 15:20
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:28
71-52-3	Alkalinity, Bicarbonate (as CACO3)	106	1.00	1.00	1.00	1		SM2320B	2H14005	08/14/12 09:45
16887-00-6	Chloride	18.1	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 12:40
NA	Nitrate/Nitrite as N	0.304	0.250	0.750	1.50	1	J	E353.2	2H20020	08/20/12 11:44
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H14005	08/14/12 09:45
14808-79-8	Sulfate as SO4	46.9	0.330	1.00	2.50	1	M	E300.0	2H13020	08/14/12 12:40

ANALYSIS DATA SHEET

GW0677

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-13
Sampled:	07/31/12 14:45	Received:	08/03/12 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	2H21921	08/21/12 15:21
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:29
71-52-3	Alkalinity, Bicarbonate (as CACO3)	69.2	1.00	1.00	1.00	1		SM2320B	2H14005	08/14/12 09:52
16887-00-6	Chloride	104	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 13:32
NA	Nitrate/Nitrite as N	3.84	0.250	0.750	1.50	1		E353.2	2H20020	08/20/12 11:46
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H14005	08/14/12 09:52
14808-79-8	Sulfate as SO4	458	3.30	10.0	25.0	10	M D	E300.0	2H15022	08/16/12 02:56

ANALYSIS DATA SHEET

GW0710

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-15
Sampled:	08/01/12 14:59	Received:	08/03/12 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	2H21921	08/21/12 15:22
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:30
71-52-3	Alkalinity, Bicarbonate (as CACO3)	337	1.00	1.00	1.00	1		SM2320B	2H15009	08/15/12 09:39
16887-00-6	Chloride	127	0.170	0.330	0.500	1		E300.0	2H13020	08/14/12 13:50
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20020	08/20/12 11:47
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H15009	08/15/12 09:39
14808-79-8	Sulfate as SO4		0.330	1.00	2.50	1	M U	E300.0	2H13020	08/14/12 13:50

ANALYSIS DATA SHEET

GW0711

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-17
Sampled:	08/01/12 12:50	Received:	08/03/12 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	2H21921	08/21/12 15:23
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:31
71-52-3	Alkalinity, Bicarbonate (as CACO3)	324	1.00	1.00	1.00	1		SM2320B	2H15009	08/15/12 09:52
16887-00-6	Chloride	104	0.170	0.330	0.500	1		E300.0	2H14015	08/14/12 23:48
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20020	08/20/12 11:49
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H15009	08/15/12 09:52
14808-79-8	Sulfate as SO4	30.4	0.330	1.00	2.50	1	M	E300.0	2H14015	08/14/12 23:48

ANALYSIS DATA SHEET

GW0712

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1208028-19
Sampled:	08/01/12 14:52	Received:	08/03/12 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	2H21921	08/21/12 15:23
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2H06007	08/06/12 12:32
71-52-3	Alkalinity, Bicarbonate (as CACO3)	102	1.00	1.00	1.00	1		SM2320B	2H15009	08/15/12 10:00
16887-00-6	Chloride	7.57	0.170	0.330	0.500	1		E300.0	2H14015	08/15/12 01:50
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2H20020	08/20/12 12:09
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2H15009	08/15/12 10:00
14808-79-8	Sulfate as SO4	28.4	0.330	1.00	2.50	1	M	E300.0	2H14015	08/15/12 01:50

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2E13609

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2E13609-ICV1	Chloride	4.800	4.613	96.1	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.62	98.4	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2H22803

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H22803-CCV1	Chloride	25.00	24.74	98.9	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.88	99.5	mg/L	+/- 10.00%
2H22803-CCV2	Chloride	25.00	25.55	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.44	102	mg/L	+/- 10.00%
2H22803-CCV3	Chloride	25.00	25.60	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.31	101	mg/L	+/- 10.00%
2H22803-CCV4	Chloride	25.00	25.89	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.52	102	mg/L	+/- 10.00%
2H22803-CCV5	Chloride	25.00	26.08	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.78	103	mg/L	+/- 10.00%
2H22803-CCV6	Chloride	25.00	26.38	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.78	103	mg/L	+/- 10.00%
2H22803-CCV7	Chloride	25.00	26.13	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.50	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_059
Project: Kirtland AFB 2011
Calibration: 2228003
Sequence: 2H22807

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H22807-ICV1	Ammonia as N	2.000	2.063	103	mg/L	+/- 10.00%
2H22807-CCV1	Ammonia as N	2.000	2.103	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2H23006

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H23006-CCV1	Sulfate as SO4	25.00	26.23	105	mg/L	+/- 10.00%
2H23006-CCV2	Sulfate as SO4	25.00	25.70	103	mg/L	+/- 10.00%
2H23006-CCV3	Sulfate as SO4	25.00	25.93	104	mg/L	+/- 10.00%
2H23006-CCV4	Sulfate as SO4	25.00	26.15	105	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_059
Project: Kirtland AFB 2011
Calibration: 2233001
Sequence: 2H23304

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H23304-ICV1	Nitrate/Nitrite as N	1.200	1.237	103	mg/L	+/- 10.00%
2H23304-CCV1	Nitrate/Nitrite as N	1.200	1.240	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2233002
Sequence: 2H23308

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H23308-ICV1	Nitrate/Nitrite as N	1.200	1.231	103	mg/L	+/- 10.00%
2H23308-CCV1	Nitrate/Nitrite as N	1.200	1.224	102	mg/L	+/- 10.00%
2H23308-CCV2	Nitrate/Nitrite as N	1.200	1.227	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_059
Project: Kirtland AFB 2011
Calibration: 2136002
Sequence: 2H23312

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H23312-CCV1	Chloride	25.00	26.26	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.08	104	mg/L	+/- 10.00%
2H23312-CCV2	Chloride	25.00	26.32	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.12	104	mg/L	+/- 10.00%
2H23312-CCV3	Chloride	25.00	26.52	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.54	102	mg/L	+/- 10.00%
2H23312-CCV4	Chloride	25.00	26.64	107	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.76	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_059
Project: Kirtland AFB 2011
Calibration: 2234003
Sequence: 2H23409

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2H23409-ICV1	Ammonia as N	2.000	2.086	104	mg/L	+/- 10.00%
2H23409-CCV1	Ammonia as N	2.000	2.154	108	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2H22803

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H22803-CRL1	Chloride	0.5000	0.4640	92.8	mg/L	75 - 125
2H22803-CRL3	Sulfate as SO4	2.500	1.956	78.2	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2H23006

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H23006-CRL3	Sulfate as SO4	2.500	1.970	78.8	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2136002

Sequence: 2H23312

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2H23312-CRL1	Chloride	0.5000	0.5860	117	mg/L	75 - 125
2H23312-CRL3	Sulfate as SO4	2.500	1.892	75.7	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H06007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H06007-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H07008

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H07008-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H13019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H13019-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_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H13020

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H13020-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H14005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H14005-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H14015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H14015-BLK1	Chloride	0.0470	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H15009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H15009-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H15011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H15011-BLK1	Ammonia as N	-0.0118	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H15022

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H15022-BLK1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H16004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H16004-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H20019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H20019-BLK1	Nitrate/Nitrite as N	-0.0192	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H20020

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H20020-BLK1	Nitrate/Nitrite as N	-0.0209	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2H21921

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H21921-BLK1	Ammonia as N	-0.0120	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2E13609
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2E13609-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H22803
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H22803-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
2H22803-CCB2	Chloride	0.0260	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H22803-CCB3	Chloride	0.0190	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H22803-CCB4	Chloride	0.0190	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H22803-CCB5	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
2H22803-CCB6	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
2H22803-CCB7	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_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H22807
Calibration: 2228003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H22807-ICB1	Ammonia as N	-0.008037	0.110	0.300	mg/L	U	SM4500NH3BG
2H22807-CCB1	Ammonia as N	-0.0111	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H23006
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H23006-CCB1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H23006-CCB2	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H23006-CCB3	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H23006-CCB4	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H23304
Calibration: 2233001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H23304-ICB1	Nitrate/Nitrite as N	-0.02292	0.0500	0.300	mg/L	U	E353.2
2H23304-CCB1	Nitrate/Nitrite as N	-0.0255	0.0500	0.300	mg/L	U	E353.2

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H23308
Calibration: 2233002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H23308-ICB1	Nitrate/Nitrite as N	-0.02337	0.0500	0.300	mg/L	U	E353.2
2H23308-CCB1	Nitrate/Nitrite as N	-0.0240	0.0500	0.300	mg/L	U	E353.2
2H23308-CCB2	Nitrate/Nitrite as N	-0.0240	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H23312
Calibration: 2136002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H23312-CCB1	Chloride	0.0430	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H23312-CCB2	Chloride	0.0230	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H23312-CCB3	Chloride	0.113	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2H23312-CCB4	Chloride	0.0530	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_059
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2H23409
Calibration: 2234003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2H23409-ICB1	Ammonia as N	-0.008459	0.110	0.300	mg/L	U	SM4500NH3BG
2H23409-CCB1	Ammonia as N	-0.0280	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0661

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H13019

% Solids:

Source Sample Name: **1208005-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	34.96	63.52	103		80 - 120
Sulfate as SO4	27.78	61.14	90.49	106		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	63.48	103	0.0630		20	80 - 120
Sulfate as SO4	27.78	90.45	106	0.0479		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0631

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H13020

% Solids:

Source Sample Name: **1208028-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	19.03	47.85	104		80 - 120
Sulfate as SO4	27.78	47.20	76.68	106		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	47.52	103	0.680		20	80 - 120
Sulfate as SO4	27.78	76.29	105	0.510		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0661

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H14005

% Solids:

Source Sample Name: **1208005-01**

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	112.0	226.0	103		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	222.9	99.8	1.40		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0712

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H15009

% Solids:

Source Sample Name: **1208028-19**

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	102.3	214.8	101		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	212.6	99.2	1.05		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0678

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H15011

% Solids:

Source Sample Name: **1208005-03**

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	4.871	97.4		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0631

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H16004

% Solids:

Source Sample Name: **1208028-01**

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	98.68	216.6	106		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	215.7	105	0.416		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0726

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H20019

% Solids:

Source Sample Name: **1208005-19**

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	2.642	106		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	2.630	105	0.455		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0712

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H20020		
% Solids:			

Source Sample Name: **1208028-19RE1**

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	2.616	105		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	2.602	104	0.536		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0650

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2H21921

% Solids:

Source Sample Name: **1208028-07**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.926	98.5		75 - 125

GW0661

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2H13019
Preparation: pNone
Source Sample Name: GW0661

SDG: Kirtland_059
Project: Kirtland AFB 2011
Laboratory ID: 2H13019-DUP2
Lab Source ID: 1208005-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	35.0	34.93	0.0858		E300.0
Sulfate as SO4	20	61.1	61.15	0.0164		E300.0

GW0631

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2H13020
Preparation: pNone
Source Sample Name: GW0631

SDG: Kirtland_059
Project: Kirtland AFB 2011
Laboratory ID: 2H13020-DUP2
Lab Source ID: 1208028-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	19.0	19.03	0.00525		E300.0
Sulfate as SO4	20	47.2	47.30	0.201		E300.0

GW0679

DUPLICATES

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2H15011
Preparation: pNone
Source Sample Name: GW0679

SDG: Kirtland_059
Project: Kirtland AFB 2011
Laboratory ID: 2H15011-DUP1
Lab Source ID: 1208005-05
Initial/Final: 100 mL / 100 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Ammonia as N	20	0.300 U	0.300 U			SM4500NH3BG

GW0649

DUPLICATES

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2H21921
Preparation: pNone
Source Sample Name: GW0649

SDG: Kirtland_059
Project: Kirtland AFB 2011
Laboratory ID: 2H21921-DUP1
Lab Source ID: 1208028-05
Initial/Final: 100 mL / 100 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Ammonia as N	20	0.300 U	0.300 U			SM4500NH3BG

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H06007	Laboratory ID:	2H06007-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1266	1183	93.5	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1266	1150	90.8	2.86	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H07008	Laboratory ID:	2H07008-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1029	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H13019	Laboratory ID:	2H13019-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.986	104	90 - 110
Sulfate as SO4	24.00	24.21	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H13020	Laboratory ID:	2H13020-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.017	105	90 - 110
Sulfate as SO4	24.00	24.35	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H14005	Laboratory ID:	2H14005-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	1025	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H14015	Laboratory ID:	2H14015-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.062	105	90 - 110
Sulfate as SO4	24.00	24.28	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H15009	Laboratory ID:	2H15009-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	1021	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H15011	Laboratory ID:	2H15011-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.882	97.6	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H15022	Laboratory ID:	2H15022-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfate as SO4	24.00	24.26	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H16004	Laboratory ID:	2H16004-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	1015	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H20019	Laboratory ID:	2H20019-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	15.09	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H20020	Laboratory ID:	2H20020-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	15.20	108	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2H21921	Laboratory ID:	2H21921-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.797	95.9	80 - 120

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H06007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/06/12 08:23	295.00	200.00
GW0678	1208005-03	08/06/12 08:23	295.00	200.00
GW0679	1208005-05	08/06/12 08:23	295.00	200.00
GW0680	1208005-07	08/06/12 08:23	295.00	200.00
GW0697	1208005-09	08/06/12 08:23	270.00	200.00
GW0698	1208005-11	08/06/12 08:23	295.00	200.00
GW0723	1208005-13	08/06/12 08:23	295.00	200.00
GW0724	1208005-15	08/06/12 08:23	295.00	200.00
GW0725	1208005-17	08/06/12 08:23	295.00	200.00
GW0726	1208005-19	08/06/12 08:23	295.00	200.00
GW0631	1208028-01	08/06/12 08:23	270.00	200.00
GW0639	1208028-03	08/06/12 08:23	295.00	200.00
GW0649	1208028-05	08/06/12 08:23	270.00	200.00
GW0650	1208028-07	08/06/12 08:23	270.00	200.00
GW0662	1208028-09	08/06/12 08:23	270.00	200.00
GW0663	1208028-11	08/06/12 08:23	270.00	200.00
GW0677	1208028-13	08/06/12 08:23	270.00	200.00
GW0710	1208028-15	08/06/12 08:23	270.00	200.00
GW0711	1208028-17	08/06/12 08:23	270.00	200.00
GW0712	1208028-19	08/06/12 08:23	270.00	200.00
Blank	2H06007-BLK1	08/06/12 08:23	250.00	200.00
LCS	2H06007-BS1	08/06/12 08:23	3.00	250.00
LCS Dup	2H06007-BSD1	08/06/12 08:23	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H07008 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0697	1208005-09	08/07/12 08:43	25.00	25.00
GW0698	1208005-11	08/07/12 08:43	25.00	25.00
GW0723	1208005-13	08/07/12 08:43	25.00	25.00
GW0724	1208005-15	08/07/12 08:43	25.00	25.00
GW0725	1208005-17	08/07/12 08:43	25.00	25.00
GW0726	1208005-19	08/07/12 08:43	25.00	25.00
Blank	2H07008-BLK1	08/07/12 08:43	25.00	25.00
LCS	2H07008-BS1	08/07/12 08:43	5.00	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H13019 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/13/12 15:13	5.00	5.00
GW0678	1208005-03	08/13/12 15:13	5.00	5.00
GW0679	1208005-05	08/13/12 15:13	5.00	5.00
GW0680	1208005-07	08/13/12 15:13	5.00	5.00
GW0697	1208005-09	08/13/12 15:13	5.00	5.00
GW0698	1208005-11	08/13/12 15:13	5.00	5.00
GW0723	1208005-13	08/13/12 15:13	5.00	5.00
Blank	2H13019-BLK1	08/13/12 15:13	5.00	5.00
LCS	2H13019-BS1	08/13/12 15:13	5.00	5.00
GW0661	2H13019-DUP2	08/13/12 15:13	5.00	5.00
GW0661	2H13019-MS2	08/13/12 15:13	22.50	25.00
GW0661	2H13019-MSD2	08/13/12 15:13	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H13020 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0724	1208005-15	08/13/12 15:20	5.00	5.00
GW0725	1208005-17	08/13/12 15:20	5.00	5.00
GW0726	1208005-19	08/13/12 15:20	5.00	5.00
GW0631	1208028-01	08/13/12 15:20	5.00	5.00
GW0639	1208028-03	08/13/12 15:20	5.00	5.00
GW0649	1208028-05	08/13/12 15:20	5.00	5.00
GW0650	1208028-07	08/13/12 15:20	5.00	5.00
GW0662	1208028-09	08/13/12 15:20	5.00	5.00
GW0663	1208028-11	08/13/12 15:20	5.00	5.00
GW0677	1208028-13	08/13/12 15:20	5.00	5.00
GW0710	1208028-15	08/13/12 15:20	5.00	5.00
Blank	2H13020-BLK1	08/13/12 15:20	5.00	5.00
LCS	2H13020-BS1	08/13/12 15:20	5.00	5.00
GW0631	2H13020-DUP2	08/13/12 15:20	5.00	5.00
GW0631	2H13020-MS2	08/13/12 15:20	22.50	25.00
GW0631	2H13020-MSD2	08/13/12 15:20	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H14005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/14/12 08:33	25.00	25.00
GW0678	1208005-03	08/14/12 08:33	25.00	25.00
GW0679	1208005-05	08/14/12 08:33	25.00	25.00
GW0680	1208005-07	08/14/12 08:33	25.00	25.00
GW0663	1208028-11	08/14/12 08:33	25.00	25.00
GW0677	1208028-13	08/14/12 08:33	25.00	25.00
Blank	2H14005-BLK1	08/14/12 08:33	25.00	25.00
LCS	2H14005-BS1	08/14/12 08:33	5.00	25.00
GW0661	2H14005-MS1	08/14/12 08:33	22.50	25.00
GW0661	2H14005-MSD1	08/14/12 08:33	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H14015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0711	1208028-17	08/14/12 13:25	5.00	5.00
GW0712	1208028-19	08/14/12 13:25	5.00	5.00
Blank	2H14015-BLK1	08/14/12 13:25	5.00	5.00
LCS	2H14015-BS1	08/14/12 13:25	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H15009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0662	1208028-09	08/15/12 08:45	25.00	25.00
GW0710	1208028-15	08/15/12 08:45	25.00	25.00
GW0711	1208028-17	08/15/12 08:45	25.00	25.00
GW0712	1208028-19	08/15/12 08:45	25.00	25.00
Blank	2H15009-BLK1	08/15/12 08:45	25.00	25.00
LCS	2H15009-BS1	08/15/12 08:45	5.00	25.00
GW0712	2H15009-MS1	08/15/12 08:45	22.50	25.00
GW0712	2H15009-MSD1	08/15/12 08:45	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H15011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/15/12 09:03	100.00	100.00
GW0678	1208005-03	08/15/12 09:03	100.00	100.00
GW0679	1208005-05	08/15/12 09:03	100.00	100.00
GW0680	1208005-07	08/15/12 09:03	100.00	100.00
GW0697	1208005-09	08/15/12 09:03	100.00	100.00
GW0698	1208005-11	08/15/12 09:03	100.00	100.00
GW0723	1208005-13	08/15/12 09:03	100.00	100.00
GW0724	1208005-15	08/15/12 09:03	100.00	100.00
GW0725	1208005-17	08/15/12 09:03	100.00	100.00
GW0726	1208005-19	08/15/12 09:03	100.00	100.00
Blank	2H15011-BLK1	08/15/12 09:03	100.00	100.00
LCS	2H15011-BS1	08/15/12 09:03	100.00	100.00
GW0679	2H15011-DUP1	08/15/12 09:03	100.00	100.00
GW0678	2H15011-MS1	08/15/12 09:03	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H15022 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0677	1208028-13RE1	08/15/12 15:14	5.00	5.00
Blank	2H15022-BLK1	08/15/12 15:14	5.00	5.00
LCS	2H15022-BS1	08/15/12 15:14	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H16004 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/16/12 07:13	25.00	25.00
GW0639	1208028-03	08/16/12 07:13	25.00	25.00
GW0649	1208028-05	08/16/12 07:13	25.00	25.00
GW0650	1208028-07	08/16/12 07:13	25.00	25.00
Blank	2H16004-BLK1	08/16/12 07:13	25.00	25.00
LCS	2H16004-BS1	08/16/12 07:13	5.00	25.00
GW0631	2H16004-MS1	08/16/12 07:13	22.50	25.00
GW0631	2H16004-MSD1	08/16/12 07:13	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H20019 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0661	1208005-01	08/20/12 09:20	4.00	20.00
GW0678	1208005-03	08/20/12 09:20	4.00	20.00
GW0679	1208005-05	08/20/12 09:20	4.00	20.00
GW0680	1208005-07	08/20/12 09:20	4.00	20.00
GW0697	1208005-09	08/20/12 09:20	4.00	20.00
GW0698	1208005-11	08/20/12 09:20	4.00	20.00
GW0723	1208005-13	08/20/12 09:20	4.00	20.00
GW0724	1208005-15	08/20/12 09:20	4.00	20.00
GW0725	1208005-17	08/20/12 09:20	4.00	20.00
GW0726	1208005-19	08/20/12 09:20	4.00	20.00
Blank	2H20019-BLK1	08/20/12 09:20	20.00	20.00
LCS	2H20019-BS1	08/20/12 09:20	1.00	20.00
GW0726	2H20019-MS1	08/20/12 09:20	4.00	20.00
GW0726	2H20019-MSD1	08/20/12 09:20	4.00	20.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H20020 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/20/12 09:26	4.00	20.00
GW0639	1208028-03	08/20/12 09:26	4.00	20.00
GW0649	1208028-05	08/20/12 09:26	4.00	20.00
GW0650	1208028-07	08/20/12 09:26	4.00	20.00
GW0662	1208028-09	08/20/12 09:26	4.00	20.00
GW0663	1208028-11	08/20/12 09:26	4.00	20.00
GW0677	1208028-13	08/20/12 09:26	4.00	20.00
GW0710	1208028-15	08/20/12 09:26	4.00	20.00
GW0711	1208028-17	08/20/12 09:26	4.00	20.00
GW0712	1208028-19RE1	08/20/12 09:26	4.00	20.00
Blank	2H20020-BLK1	08/20/12 09:26	20.00	20.00
LCS	2H20020-BS1	08/20/12 09:26	1.00	20.00
GW0712	2H20020-MS2	08/20/12 09:26	4.00	20.00
GW0712	2H20020-MSD2	08/20/12 09:26	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_059

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

Batch: 2H21921 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0631	1208028-01	08/21/12 08:29	100.00	100.00
GW0639	1208028-03	08/21/12 08:29	100.00	100.00
GW0649	1208028-05	08/21/12 08:29	100.00	100.00
GW0650	1208028-07	08/21/12 08:29	100.00	100.00
GW0662	1208028-09	08/21/12 08:29	100.00	100.00
GW0663	1208028-11	08/21/12 08:29	100.00	100.00
GW0677	1208028-13	08/21/12 08:29	100.00	100.00
GW0710	1208028-15	08/21/12 08:29	100.00	100.00
GW0711	1208028-17	08/21/12 08:29	100.00	100.00
GW0712	1208028-19	08/21/12 08:29	100.00	100.00
Blank	2H21921-BLK1	08/21/12 08:29	100.00	100.00
LCS	2H21921-BS1	08/21/12 08:29	100.00	100.00
GW0649	2H21921-DUP1	08/21/12 08:29	100.00	100.00
GW0650	2H21921-MS1	08/21/12 08:29	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2H07008-BS1	080712-002	08/07/12 09:20
Blank	2H07008-BLK1	080712-003	08/07/12 09:25
LCS	2H14005-BS1	081412-002	08/14/12 08:55
Blank	2H14005-BLK1	081412-003	08/14/12 09:02
GW0661	2H14005-MS1	081412-004	08/14/12 09:05
GW0661	2H14005-MSD1	081412-005	08/14/12 09:12
LCS	2H15009-BS1	081512-002	08/15/12 09:09
Blank	2H15009-BLK1	081512-003	08/15/12 09:15
GW0712	2H15009-MS1	081512-004	08/15/12 09:19
GW0712	2H15009-MSD1	081512-005	08/15/12 09:25
LCS	2H16004-BS1	081612-002	08/16/12 07:35
Blank	2H16004-BLK1	081612-003	08/16/12 07:42
GW0631	2H16004-MS1	081612-004	08/16/12 07:47
GW0631	2H16004-MSD1	081612-005	08/16/12 07:52

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_059

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2H06007-BS1	080612-001	08/06/12 12:10
LCS Dup	2H06007-BSD1	080612-002	08/06/12 12:11
Blank	2H06007-BLK1	080612-003	08/06/12 12:12

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2E13609	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2E13609-CAL1	051412-010	05/14/12 18:29
Cal Standard	2E13609-CAL2	051412-011	05/14/12 18:46
Cal Standard	2E13609-CAL3	051412-012	05/14/12 19:04
Cal Standard	2E13609-CAL4	051412-013	05/14/12 19:21
Cal Standard	2E13609-CAL5	051412-014	05/14/12 19:38
Cal Standard	2E13609-CAL6	051412-015	05/14/12 19:56
Cal Standard	2E13609-CAL7	051412-016	05/14/12 20:13
Cal Standard	2E13609-CAL8	051412-017	05/14/12 20:31
Initial Cal Check	2E13609-ICV1	051412-018	05/14/12 20:48
Initial Cal Blank	2E13609-ICB1	051412-019	05/14/12 21:06

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22803	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H22803-CCV1	081312-003	08/13/12 17:31
Calibration Blank	2H22803-CCB1	081312-004	08/13/12 17:48
Instrument RL Check	2H22803-CRL1	081312-005	08/13/12 18:06
Instrument RL Check	2H22803-CRL3	081312-007	08/13/12 18:41
LCS	2H13019-BS1	081312-008	08/13/12 18:58
LCS	2H13020-BS1	081312-009	08/13/12 19:15
Blank	2H13019-BLK1	081312-010	08/13/12 19:33
Blank	2H13020-BLK1	081312-011	08/13/12 19:50
Calibration Check	2H22803-CCV2	081312-022	08/13/12 23:02
Calibration Blank	2H22803-CCB2	081312-023	08/13/12 23:19
GW0661	1208005-01	081312-030	08/14/12 01:21
GW0661	2H13019-MS2	081312-031	08/14/12 01:38
GW0661	2H13019-MSD2	081312-032	08/14/12 01:56
GW0661	2H13019-DUP2	081312-033	08/14/12 02:13
Calibration Check	2H22803-CCV3	081312-034	08/14/12 02:31
Calibration Blank	2H22803-CCB3	081312-035	08/14/12 02:48
GW0678	1208005-03	081312-036	08/14/12 03:06
GW0679	1208005-05	081312-037	08/14/12 03:23
GW0680	1208005-07	081312-038	08/14/12 03:40
GW0697	1208005-09	081312-039	08/14/12 03:58
GW0698	1208005-11	081312-040	08/14/12 04:15
GW0723	1208005-13	081312-041	08/14/12 04:33
Calibration Check	2H22803-CCV4	081312-046	08/14/12 06:00
Calibration Blank	2H22803-CCB4	081312-047	08/14/12 06:17
GW0724	1208005-15	081312-048	08/14/12 06:34
GW0725	1208005-17	081312-049	08/14/12 06:52
GW0726	1208005-19	081312-050	08/14/12 07:09
GW0631	1208028-01	081312-054	08/14/12 08:19
GW0631	2H13020-MS2	081312-055	08/14/12 08:36
GW0631	2H13020-MSD2	081312-056	08/14/12 08:54
GW0631	2H13020-DUP2	081312-057	08/14/12 09:11
Calibration Check	2H22803-CCV5	081312-058	08/14/12 09:29

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22803	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	2H22803-CCB5	081312-059	08/14/12 09:46
GW0639	1208028-03	081312-065	08/14/12 11:30
GW0649	1208028-05	081312-066	08/14/12 11:48
GW0650	1208028-07	081312-067	08/14/12 12:05
GW0662	1208028-09	081312-068	08/14/12 12:23
GW0663	1208028-11	081312-069	08/14/12 12:40
Calibration Check	2H22803-CCV6	081312-070	08/14/12 12:57
Calibration Blank	2H22803-CCB6	081312-071	08/14/12 13:15
GW0677	1208028-13	081312-072	08/14/12 13:32
GW0710	1208028-15	081312-073	08/14/12 13:50
Calibration Check	2H22803-CCV7	081312-074	08/14/12 14:07
Calibration Blank	2H22803-CCB7	081312-075	08/14/12 14:24

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H22807	Instrument:	WC-Lachat
Calibration:	2228003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H22807-CAL1	M_8-15-2012_02-13-12PM-00	08/15/12 14:14
Cal Standard	2H22807-CAL2	M_8-15-2012_02-13-12PM-00	08/15/12 14:15
Cal Standard	2H22807-CAL3	M_8-15-2012_02-13-12PM-00	08/15/12 14:16
Cal Standard	2H22807-CAL4	M_8-15-2012_02-13-12PM-00	08/15/12 14:17
Cal Standard	2H22807-CAL5	M_8-15-2012_02-13-12PM-00	08/15/12 14:18
Cal Standard	2H22807-CAL6	M_8-15-2012_02-13-12PM-00	08/15/12 14:19
Cal Standard	2H22807-CAL7	M_8-15-2012_02-13-12PM-00	08/15/12 14:20
Cal Standard	2H22807-CAL8	M_8-15-2012_02-13-12PM-00	08/15/12 14:21
Initial Cal Check	2H22807-ICV1	M_8-15-2012_02-13-12PM-00	08/15/12 14:22
Initial Cal Blank	2H22807-ICB1	M_8-15-2012_02-13-12PM-01	08/15/12 14:23
Blank	2H15011-BLK1	M_8-15-2012_02-13-12PM-01	08/15/12 14:24
LCS	2H15011-BS1	M_8-15-2012_02-13-12PM-01	08/15/12 14:25
GW0661	1208005-01	M_8-15-2012_02-13-12PM-01	08/15/12 14:25
GW0678	1208005-03	M_8-15-2012_02-13-12PM-01	08/15/12 14:26
GW0678	2H15011-MS1	M_8-15-2012_02-13-12PM-01	08/15/12 14:27
GW0679	1208005-05	M_8-15-2012_02-13-12PM-01	08/15/12 14:28
GW0679	2H15011-DUP1	M_8-15-2012_02-13-12PM-01	08/15/12 14:29
GW0680	1208005-07	M_8-15-2012_02-13-12PM-01	08/15/12 14:30
GW0697	1208005-09	M_8-15-2012_02-13-12PM-01	08/15/12 14:31
GW0698	1208005-11	M_8-15-2012_02-13-12PM-02	08/15/12 14:32
GW0723	1208005-13	M_8-15-2012_02-13-12PM-02	08/15/12 14:33
GW0724	1208005-15	M_8-15-2012_02-13-12PM-02	08/15/12 14:34
GW0725	1208005-17	M_8-15-2012_02-13-12PM-02	08/15/12 14:35
GW0726	1208005-19	M_8-15-2012_02-13-12PM-02	08/15/12 14:36
Calibration Check	2H22807-CCV1	M_8-15-2012_02-13-12PM-02	08/15/12 14:37
Calibration Blank	2H22807-CCB1	M_8-15-2012_02-13-12PM-02	08/15/12 14:38

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23006	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H23006-CCV1	081512-003	08/15/12 17:04
Calibration Blank	2H23006-CCB1	081512-004	08/15/12 17:21
Instrument RL Check	2H23006-CRL3	081512-007	08/15/12 18:13
LCS	2H15022-BS1	081512-008	08/15/12 18:31
Blank	2H15022-BLK1	081512-009	08/15/12 18:48
Calibration Check	2H23006-CCV2	081512-020	08/15/12 22:00
Calibration Blank	2H23006-CCB2	081512-021	08/15/12 22:17
Calibration Check	2H23006-CCV3	081512-032	08/16/12 01:29
Calibration Blank	2H23006-CCB3	081512-033	08/16/12 01:46
GW0677	1208028-13RE1	081512-037	08/16/12 02:56
Calibration Check	2H23006-CCV4	081512-040	08/16/12 03:48
Calibration Blank	2H23006-CCB4	081512-041	08/16/12 04:05

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23304	Instrument:	WC-Lachat
Calibration:	2233001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H23304-CAL1	M_8-20-2012_10-09-09AM-00	08/20/12 10:11
Cal Standard	2H23304-CAL2	M_8-20-2012_10-09-09AM-00	08/20/12 10:12
Cal Standard	2H23304-CAL3	M_8-20-2012_10-09-09AM-00	08/20/12 10:14
Cal Standard	2H23304-CAL4	M_8-20-2012_10-09-09AM-00	08/20/12 10:15
Cal Standard	2H23304-CAL5	M_8-20-2012_10-09-09AM-00	08/20/12 10:17
Cal Standard	2H23304-CAL6	M_8-20-2012_10-09-09AM-00	08/20/12 10:18
Cal Standard	2H23304-CAL7	M_8-20-2012_10-09-09AM-00	08/20/12 10:19
Cal Standard	2H23304-CAL8	M_8-20-2012_10-09-09AM-00	08/20/12 10:21
Initial Cal Check	2H23304-ICV1	M_8-20-2012_10-09-09AM-00	08/20/12 10:22
Initial Cal Blank	2H23304-ICB1	M_8-20-2012_10-09-09AM-01	08/20/12 10:24
Blank	2H20019-BLK1	M_8-20-2012_10-09-09AM-01	08/20/12 10:27
LCS	2H20019-BS1	M_8-20-2012_10-09-09AM-01	08/20/12 10:28
GW0661	1208005-01	M_8-20-2012_10-09-09AM-01	08/20/12 10:30
GW0678	1208005-03	M_8-20-2012_10-09-09AM-01	08/20/12 10:31
GW0679	1208005-05	M_8-20-2012_10-09-09AM-01	08/20/12 10:32
GW0680	1208005-07	M_8-20-2012_10-09-09AM-01	08/20/12 10:34
GW0697	1208005-09	M_8-20-2012_10-09-09AM-01	08/20/12 10:35
GW0698	1208005-11	M_8-20-2012_10-09-09AM-01	08/20/12 10:37
GW0723	1208005-13	M_8-20-2012_10-09-09AM-02	08/20/12 10:38
GW0724	1208005-15	M_8-20-2012_10-09-09AM-02	08/20/12 10:40
GW0725	1208005-17	M_8-20-2012_10-09-09AM-02	08/20/12 10:41
GW0726	1208005-19	M_8-20-2012_10-09-09AM-02	08/20/12 10:43
GW0726	2H20019-MS1	M_8-20-2012_10-09-09AM-02	08/20/12 10:44
GW0726	2H20019-MSD1	M_8-20-2012_10-09-09AM-02	08/20/12 10:46
Calibration Check	2H23304-CCV1	M_8-20-2012_10-09-09AM-02	08/20/12 10:47
Calibration Blank	2H23304-CCB1	M_8-20-2012_10-09-09AM-02	08/20/12 10:48

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23308	Instrument:	WC-Lachat
Calibration:	2233002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H23308-CAL1	M_8-20-2012_11-16-54AM-00	08/20/12 11:18
Cal Standard	2H23308-CAL2	M_8-20-2012_11-16-54AM-00	08/20/12 11:20
Cal Standard	2H23308-CAL3	M_8-20-2012_11-16-54AM-00	08/20/12 11:21
Cal Standard	2H23308-CAL4	M_8-20-2012_11-16-54AM-00	08/20/12 11:23
Cal Standard	2H23308-CAL5	M_8-20-2012_11-16-54AM-00	08/20/12 11:24
Cal Standard	2H23308-CAL6	M_8-20-2012_11-16-54AM-00	08/20/12 11:26
Cal Standard	2H23308-CAL7	M_8-20-2012_11-16-54AM-00	08/20/12 11:27
Cal Standard	2H23308-CAL8	M_8-20-2012_11-16-54AM-00	08/20/12 11:29
Initial Cal Check	2H23308-ICV1	M_8-20-2012_11-16-54AM-00	08/20/12 11:30
Initial Cal Blank	2H23308-ICB1	M_8-20-2012_11-16-54AM-01	08/20/12 11:31
Blank	2H20020-BLK1	M_8-20-2012_11-16-54AM-01	08/20/12 11:34
LCS	2H20020-BS1	M_8-20-2012_11-16-54AM-01	08/20/12 11:36
GW0631	1208028-01	M_8-20-2012_11-16-54AM-01	08/20/12 11:37
GW0639	1208028-03	M_8-20-2012_11-16-54AM-01	08/20/12 11:39
GW0649	1208028-05	M_8-20-2012_11-16-54AM-01	08/20/12 11:40
GW0650	1208028-07	M_8-20-2012_11-16-54AM-01	08/20/12 11:42
GW0662	1208028-09	M_8-20-2012_11-16-54AM-01	08/20/12 11:43
GW0663	1208028-11	M_8-20-2012_11-16-54AM-01	08/20/12 11:44
GW0677	1208028-13	M_8-20-2012_11-16-54AM-02	08/20/12 11:46
GW0710	1208028-15	M_8-20-2012_11-16-54AM-02	08/20/12 11:47
GW0711	1208028-17	M_8-20-2012_11-16-54AM-02	08/20/12 11:49
Calibration Check	2H23308-CCV1	M_8-20-2012_11-16-54AM-02	08/20/12 11:55
Calibration Blank	2H23308-CCB1	M_8-20-2012_11-16-54AM-02	08/20/12 11:56
GW0712	1208028-19RE1	M_8-20-2012_11-16-54AM-03	08/20/12 12:09
GW0712	2H20020-MS2	M_8-20-2012_11-16-54AM-03	08/20/12 12:11
GW0712	2H20020-MSD2	M_8-20-2012_11-16-54AM-03	08/20/12 12:12
Calibration Check	2H23308-CCV2	M_8-20-2012_11-16-54AM-03	08/20/12 12:14
Calibration Blank	2H23308-CCB2	M_8-20-2012_11-16-54AM-04	08/20/12 12:15

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23312	Instrument:	WC-IC
Calibration:	2136002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2H23312-CCV1	081412B-003	08/14/12 16:49
Calibration Blank	2H23312-CCB1	081412B-004	08/14/12 17:07
Instrument RL Check	2H23312-CRL1	081412B-005	08/14/12 17:24
Instrument RL Check	2H23312-CRL3	081412B-007	08/14/12 17:59
LCS	2H14015-BS1	081412B-008	08/14/12 18:16
Blank	2H14015-BLK1	081412B-009	08/14/12 18:34
Calibration Check	2H23312-CCV2	081412B-020	08/14/12 21:46
Calibration Blank	2H23312-CCB2	081412B-021	08/14/12 22:03
GW0711	1208028-17	081412B-027	08/14/12 23:48
Calibration Check	2H23312-CCV3	081412B-032	08/15/12 01:15
Calibration Blank	2H23312-CCB3	081412B-033	08/15/12 01:32
GW0712	1208028-19	081412B-034	08/15/12 01:50
Calibration Check	2H23312-CCV4	081412B-040	08/15/12 03:34
Calibration Blank	2H23312-CCB4	081412B-041	08/15/12 03:52

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_059
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H23409	Instrument:	WC-Lachat
Calibration:	2234003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H23409-CAL1	M_8-21-2012_03-00-40PM-00	08/21/12 15:02
Cal Standard	2H23409-CAL3	M_8-21-2012_03-00-40PM-00	08/21/12 15:03
Cal Standard	2H23409-CAL2	M_8-21-2012_03-00-40PM-00	08/21/12 15:03
Cal Standard	2H23409-CAL4	M_8-21-2012_03-00-40PM-00	08/21/12 15:04
Cal Standard	2H23409-CAL5	M_8-21-2012_03-00-40PM-00	08/21/12 15:05
Cal Standard	2H23409-CAL6	M_8-21-2012_03-00-40PM-00	08/21/12 15:06
Cal Standard	2H23409-CAL7	M_8-21-2012_03-00-40PM-00	08/21/12 15:07
Cal Standard	2H23409-CAL8	M_8-21-2012_03-00-40PM-00	08/21/12 15:08
Initial Cal Check	2H23409-ICV1	M_8-21-2012_03-00-40PM-00	08/21/12 15:09
Initial Cal Blank	2H23409-ICB1	M_8-21-2012_03-00-40PM-01	08/21/12 15:10
Blank	2H21921-BLK1	M_8-21-2012_03-00-40PM-01	08/21/12 15:11
LCS	2H21921-BS1	M_8-21-2012_03-00-40PM-01	08/21/12 15:12
GW0631	1208028-01	M_8-21-2012_03-00-40PM-01	08/21/12 15:13
GW0639	1208028-03	M_8-21-2012_03-00-40PM-01	08/21/12 15:14
GW0649	1208028-05	M_8-21-2012_03-00-40PM-01	08/21/12 15:15
GW0649	2H21921-DUP1	M_8-21-2012_03-00-40PM-01	08/21/12 15:16
GW0650	1208028-07	M_8-21-2012_03-00-40PM-01	08/21/12 15:17
GW0650	2H21921-MS1	M_8-21-2012_03-00-40PM-01	08/21/12 15:18
GW0662	1208028-09	M_8-21-2012_03-00-40PM-01	08/21/12 15:19
GW0663	1208028-11	M_8-21-2012_03-00-40PM-02	08/21/12 15:20
GW0677	1208028-13	M_8-21-2012_03-00-40PM-02	08/21/12 15:21
GW0710	1208028-15	M_8-21-2012_03-00-40PM-02	08/21/12 15:22
GW0711	1208028-17	M_8-21-2012_03-00-40PM-02	08/21/12 15:23
GW0712	1208028-19	M_8-21-2012_03-00-40PM-02	08/21/12 15:23
Calibration Check	2H23409-CCV1	M_8-21-2012_03-00-40PM-02	08/21/12 15:24
Calibration Blank	2H23409-CCB1	M_8-21-2012_03-00-40PM-02	08/21/12 15:25