ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_029

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

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THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

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

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

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

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

SW8260B:
The method blanks 1I28018-BLK1 and 1J04013-BLK1 have positive results for Hexachlorobutadiene.

The batch spike associated to batch 1I128018 exceeded recovery criteria with a negative bias for Benzene. The batch spikes associated to batch 1J03011 exceeded recovery criteria with a negative bias and exceeded relative percent difference criteria for Bromomethane. The batch spike duplicate 1J03011-BSD1 was analyzed 12 hours 10 minutes after the associated tune standard.

The continuing calibration verifications exceeded criteria in 1I27206-CCV1 with a negative bias for Bromomethane, 2-Butanone, Chloromethane, Trans-1,2-Dichloroethene, and Methylene Chloride and with a positive bias for Hexachlorobutadiene, Naphthalene, Methyl t-Butyl Ether, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene, in 1J27701-CCV1 with a positive bias for Acetone, Bromoform, Hexachlorobutadiene, and Naphthalene and with a negative bias for Bromomethane, Carbon Disulfide, Chloroethane, Chloromethane, Trans-1,2-Dichloroethene, Methylene Chloride, 4-Methyl-2-pentanone, Methyl t-Butyl Ether, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene, and in 1J27803-CCV1 with a positive bias for Acetone, Hexachlorobutadiene, p-Isopropyltoluene, Naphthalene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene and with a negative bias for Bromomethane and Chloromethane.

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

SW8270C BNA:
The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in 1109152-03. The surrogate 2-Fluorophenol exceeded criteria with a negative bias in 1109152-01. All surrogates were diluted out in samples 1109252-05RE1 and 1109164-05RE1. All surrogates except 2-Fluorophenol exceeded criteria with a positive bias in sample 1109164-05.

The batch spikes associated to batch 1I22002 exceeded recovery criteria with a negative bias for Caprolactam and Hexachloroethane. The batch spike associated to batch 1J03003 exceeded recovery criteria with a negative bias for Caprolactam and with a positive bias for Atrazine, 1,1'-Biphenyl, Bis(2-Chloroethoxy)methane, 4-Chlorophenyl phenylether, Chrysene, Fluorene, and 2-Nitroaniline.

The initial calibration verifications exceeded criteria in 1E12203-ICV3 with a positive bias for 2,4-Dinitrophenol and in 1I25701-ICV2 with a positive bias for Benzidine.

The continuing calibration verifications exceeded criteria in 1J27711-CCV1 with a positive bias for Benzidine, 2,4-Dinitrophenol, and 2-Nitroanilinne and with a negative bias for 2,2'-Oxybis-1-chloropropane, in 1J27903-CCV1 with a negative bias for Acetophenone, Atrazine, Benzaldehyde, Benzidine, Benzoic Acid, Butylbenzylphthalate, Diethylphthalate, Bis(2-ethylhexyl)phthalate, Fluorene, 4-Nitroaniline, 2-Fluorophenol, and Phenol-d6, in 1J28412-CCV1 with a positive bias for 2,4-Dinitrophenol and 4-Nitrophenol, in 1J28614-CCV1 with a negative bias for 2,2'-Oxybis-1-chloropropane, in 1J28710-CCV1 with a negative bias for 2,2'-Oxybis-1-chloropropane and with a positive bias for Hexachlorobutadiene, ,and in 1J28302-CCV1 with a negative bias for Atrazine, Benzaldehyde, Benzidine, and 4-Nitroaniline.

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

SW8015B GRO:

No anomalies or deviations are noted.

SW8015B DRO:
The method blank 1J03007-BLK1 has a positive result for Diesel Range Organics; however, the associated samples have positive results greater than 10 times the amount in the method blank.

The surrogate o-Terphenyl exceeded criteria with a positive bias in 1109164-03. The surrogate o-Terphenyl exceeded the retention time window criteria in 1109164-05. The result bias due to the retention time shift was determined to be negligible.

The batch spikes associated to batches 1I22003 and 1J03007 exceeded recovery criteria with a negative bias. The samples were not re-extracted since the holding time had been exceeded upon discovery.

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

SW8011 EDB:
Samples 1109164-01RE1, -03RE1, and -05RE1 are qualified with a Z-01 to indicate that the result was reported from the lower column due to the higher column exceeding the linear range.

The batch spike associated to batch 1I21013 exceeded criteria with a positive bias on column 1 for 1,2-Dibromoethane.

The continuing calibration verifications exceeded criteria in 1I27102-CCV1, -CCV2, 1I27202-CCV1, -CCV2, 1J28705-CCV1, -CCV2, 1J28706-CCV1, and –CCV2 with a positive bias on column 1 for 1,2-Dibromoethane.

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

SW6010B:
No anomalies or deviations are noted.

Wet Chemistry:
Samples 1109164-01, -03, -05, 1109252-01, -03, and -05 are qualified with an M for Chloride to indicate that the LOQ was raised to the 1.0mg/L which is the level of the RL standard within criteria.

The initial calibration blank 1I26606-ICB1 has a positive result for Chloride.

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

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

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 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 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

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

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

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

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

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

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

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

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

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

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

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

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

S: The associated internal standard failed criteria.

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

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

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

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

LIMS Definitions / Naming Conventions:

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

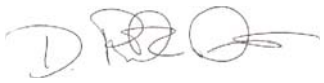
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible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

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

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

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

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



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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

GC/MS Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1109164

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW113

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

Samples Shipment Date: 20 SEP 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615450

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) [signature] Shaw — Date: 9/21/11 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) [signature] — Date: 9/22/1 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	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

Shaw™
Shaw E & I, Inc.

1109 164

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW113

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0134	KAFB-106005-WG-GW0134-REG	20 SEP 2011	12:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0135	KAFB-106005-WG-GW0135-FD	20 SEP 2011	12:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0138	KAFB-106008-WG-GW0138-REG	19 SEP 2011	11:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
07	GW8113-TB	FIELDQC-BW-GW8113-TB-TB	20 SEP 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

1109164

Cooler Received/Opened On_ 09/21/11 @ 0830

1. Tracking #_____5450_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.8 *Degrees Celsius + correction factor 1.6* = 2.2

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

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

If yes, how many and where: 1- FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

1109164

Cooler Received/Opened On_ 09/21/11 @ 0830

1. Tracking #_5472_(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius + correction factor 1.6 = 2.2

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

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

If yes, how many and where: 1-FRONT

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

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

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

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) BO

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) BO

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) BO

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

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

Additional Details:

1109164

Cooler Received/Opened On_ 09/21/11 @ 0830

1. Tracking #_5461_(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius + correction factor 1.6 = 2.2

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

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

If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_1_

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW114

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

Samples Shipment Date: 28 SEP 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615509

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: 9/29/11 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) Reginald Talley 26°C Date: 9.30.11 Time: 0815

Comments:

1109252

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW114

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0139	KAFB-106009-WG-GW0139-REG	28 SEP 2011	15:28	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04	GW0189	KAFB-106059-WG-GW0189-REG	28 SEP 2011	10:49	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0210	KAFB-106076-WG-GW0210-REG	29 SEP 2011	10:36	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-07	GW8114-TB	FIELDQC-BW-GW8114-TB-TB	28 SEP 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 09/30/11 @ 0815

1. Tracking #_____5509_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.0 Degrees Celsius + correction factor 1.6 = 2.6

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

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

If yes, how many and where: 1-FRONT

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

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

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

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) _____

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) RT

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) RT

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

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

Additional Details:

Cooler Received/Opened On_ 09/30/11 @ 0815

1. Tracking #_5520_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.2 *Degrees Celsius + correction factor 1.6* = 2.8

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

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

If yes, how many and where: 1-FRONT

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

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

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

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) BJ

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) RT

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) RT

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

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

Additional Details:

Cooler Received/Opened On_ 09/30/11 @ 0815

1. Tracking #_____5510_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.6 *Degrees Celsius + correction factor 1.6* = 3.2

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

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

If yes, how many and where: 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) BU

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) BU

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) RT

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) RT

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

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

Additional Details:

WORK ORDER

1109164

Printed: 10/19/2011 10:28:38AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

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

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

Date Due: 10/12/2011 16:00 (15 day TAT)
Received By: Benjamin C. Wright
Logged In By: Benjamin C. Wright

Date Received: 09/21/2011 08:30
Date Logged In 09/21/2011 10:06

Samples Received at: **2.2°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1109164

Printed: 10/19/2011 10:28:38AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1109164-01 GW0134 [Water] Sampled 09/20/2011 12:59 Mountain					
SM4500S2CF	10/07/2011 14:00	15	09/27/2011 13:59		
SW8011	10/07/2011 14:00	15	10/04/2011 13:59		
SW8015B DRO	10/07/2011 14:00	15	09/27/2011 13:59		
SW8015B GRO	10/07/2011 14:00	15	10/04/2011 13:59		
SW8260B	10/07/2011 14:00	15	10/04/2011 13:59		
SM2320B	10/07/2011 14:00	15	10/04/2011 13:59		carb/bicarb
SM4500NH3BG	10/07/2011 14:00	15	10/18/2011 13:59		
E300.0	10/07/2011 14:00	15	10/18/2011 13:59		Cl, SO4
E353.2	10/07/2011 14:00	15	10/18/2011 13:59		
SW8270C	10/07/2011 14:00	15	09/27/2011 13:59		requires 3-Methlphenol/4-Methylphenol
SW6010B	10/07/2011 14:00	15	03/18/2012 13:59		Ca, Pb, K, Na, Mg
1109164-02 GW0134 [Water] Sampled 09/20/2011 12:59 Mountain					
SW6010B	10/07/2011 14:00	15	03/18/2012 13:59		Fe & Mn. Field filtered.

WORK ORDER

1109164

Printed: 10/19/2011 10:28:38AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1109164-03 GW0135 [Water] Sampled 09/20/2011 12:59 Mountain					
SW8015B DRO	10/07/2011 14:00	15	09/27/2011 13:59		
SW8011	10/07/2011 14:00	15	10/04/2011 13:59		
SW8270C	10/07/2011 14:00	15	09/27/2011 13:59		requires 3-Methlphenol/4-Methylphenol
SW8015B GRO	10/07/2011 14:00	15	10/04/2011 13:59		
SW8260B	10/07/2011 14:00	15	10/04/2011 13:59		
E353.2	10/07/2011 14:00	15	10/18/2011 13:59		
SM2320B	10/07/2011 14:00	15	10/04/2011 13:59		carb/bicarb
SW6010B	10/07/2011 14:00	15	03/18/2012 13:59		Ca, Pb, K, Na, Mg
SM4500S2CF	10/07/2011 14:00	15	09/27/2011 13:59		
E300.0	10/07/2011 14:00	15	10/18/2011 13:59		Cl, SO4
SM4500NH3BG	10/07/2011 14:00	15	10/18/2011 13:59		
1109164-04 GW0135 [Water] Sampled 09/20/2011 12:59 Mountain					
SW6010B	10/07/2011 14:00	15	03/18/2012 13:59		Fe & Mn. Field filtered.

WORK ORDER

1109164

Printed: 10/19/2011 10:28:38AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1109164-05 GW0138 [Water] Sampled 09/19/2011 11:37 Mountain					
SW8015B GRO	10/07/2011 14:00	15	10/03/2011 12:37		
SM4500S2CF	10/07/2011 14:00	15	09/26/2011 12:37		
E353.2	10/07/2011 14:00	15	10/17/2011 12:37		
E300.0	10/07/2011 14:00	15	10/17/2011 12:37		Cl, SO4
SM4500NH3BG	10/07/2011 14:00	15	10/17/2011 12:37		
SW8260B	10/07/2011 14:00	15	10/03/2011 12:37		
SW8270C	10/07/2011 14:00	15	09/26/2011 12:37		requires 3-Methlphenol/4-Methylphenol
SW8011	10/07/2011 14:00	15	10/03/2011 12:37		
SW8015B DRO	10/07/2011 14:00	15	09/26/2011 12:37		
SW6010B	10/07/2011 14:00	15	03/17/2012 12:37		Ca, Pb, K, Na, Mg
SM2320B	10/07/2011 14:00	15	10/03/2011 12:37		carb/bicarb
1109164-06 GW0138 [Water] Sampled 09/19/2011 11:37 Mountain					
SW6010B	10/07/2011 14:00	15	03/17/2012 12:37		Fe & Mn. Field filtered.
1109164-07 GW8113-TB [Water] Sampled 09/20/2011 08:00 Mountain					
SW8260B	10/07/2011 14:00	15	10/04/2011 09:00		

WORK ORDER

1109252

Printed: 10/19/2011 10:31:16AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

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

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

Date Due: 10/21/2011 16:00 (15 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 09/30/2011 08:15
Date Logged In 09/30/2011 08:55

Samples Received at: **2.6°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1109252

Printed: 10/19/2011 10:31:16AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1109252-01 GW0139 [Water] Sampled 09/28/2011 15:28 Mountain					
SM4500S2CF	10/18/2011 14:00	15	10/05/2011 16:28		
SW8015B GRO	10/18/2011 14:00	15	10/12/2011 16:28		
SW8270C	10/18/2011 14:00	15	10/05/2011 16:28		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
SW8011	10/18/2011 14:00	15	10/12/2011 16:28		
SW8015B DRO	10/18/2011 14:00	15	10/05/2011 16:28		LOW SAMPLE VOLUME
SM2320B	10/18/2011 14:00	15	10/12/2011 16:28		carb/bicarb
SM4500NH3BG	10/18/2011 14:00	15	10/26/2011 16:28		
E300.0	10/18/2011 14:00	15	10/26/2011 16:28		Cl, SO4
E353.2	10/18/2011 14:00	15	10/26/2011 16:28		
SW6010B	10/18/2011 14:00	15	03/26/2012 16:28		Ca, Pb, K, Na, Mg
SW8260B	10/18/2011 14:00	15	10/12/2011 16:28		
1109252-02 GW0139 [Water] Sampled 09/28/2011 15:28 Mountain					
SW6010B	10/18/2011 14:00	15	03/26/2012 16:28		Fe & Mn

WORK ORDER

1109252

Printed: 10/19/2011 10:31:16AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1109252-03 GW0189 [Water] Sampled 09/28/2011 10:49 Mountain					
SM4500NH3BG	10/18/2011 14:00	15	10/26/2011 11:49		
SW8015B DRO	10/18/2011 14:00	15	10/05/2011 11:49		LOW SAMPLE VOLUME
SW8011	10/18/2011 14:00	15	10/12/2011 11:49		
SW8270C	10/18/2011 14:00	15	10/05/2011 11:49		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
SW8015B GRO	10/18/2011 14:00	15	10/12/2011 11:49		
SW8260B	10/18/2011 14:00	15	10/12/2011 11:49		
SM2320B	10/18/2011 14:00	15	10/12/2011 11:49		carb/bicarb
SM4500S2CF	10/18/2011 14:00	15	10/05/2011 11:49		
SW6010B	10/18/2011 14:00	15	03/26/2012 11:49		Ca, Pb, K, Na, Mg
E353.2	10/18/2011 14:00	15	10/26/2011 11:49		
E300.0	10/18/2011 14:00	15	10/26/2011 11:49		Cl, SO4
1109252-04 GW0189 [Water] Sampled 09/28/2011 10:49 Mountain					
SW6010B	10/18/2011 14:00	15	03/26/2012 11:49		Fe & Mn

WORK ORDER

1109252

Printed: 10/19/2011 10:31:16AM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1109252-05 GW0210 [Water] Sampled 09/29/2011 10:36 Mountain					
SW8260B	10/18/2011 14:00	15	10/13/2011 11:36		
SM4500S2CF	10/18/2011 14:00	15	10/06/2011 11:36		
E353.2	10/18/2011 14:00	15	10/27/2011 11:36		
E300.0	10/18/2011 14:00	15	10/27/2011 11:36		Cl, SO4
SM2320B	10/18/2011 14:00	15	10/13/2011 11:36		carb/bicarb
SW8015B GRO	10/18/2011 14:00	15	10/13/2011 11:36		
SW8270C	10/18/2011 14:00	15	10/06/2011 11:36		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
SW8011	10/18/2011 14:00	15	10/13/2011 11:36		
SW8015B DRO	10/18/2011 14:00	15	10/06/2011 11:36		LOW SAMPLE VOLUME
SW6010B	10/18/2011 14:00	15	03/27/2012 11:36		Ca, Pb, K, Na, Mg
SM4500NH3BG	10/18/2011 14:00	15	10/27/2011 11:36		
1109252-06 GW0210 [Water] Sampled 09/29/2011 10:36 Mountain					
SW6010B	10/18/2011 14:00	15	03/27/2012 11:36		Fe & Mn
1109252-07 GW8114-TB [Water] Sampled 09/28/2011 08:00 Mountain					
SW8260B	10/18/2011 14:00	15	10/12/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_029
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/12/2011 - 10/21/2011
Client Sample Count: 12

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B
Client Sample	9/20/2011	9/21/2011	1109164-01	GW0134	X	X	X	X	X	X
Client Sample	9/20/2011	9/21/2011	1109164-02	GW0134						X
Client Sample	9/20/2011	9/21/2011	1109164-03	GW0135	X	X	X	X	X	X
Client Sample	9/20/2011	9/21/2011	1109164-04	GW0135						X
Client Sample	9/19/2011	9/21/2011	1109164-05	GW0138	X	X	X	X	X	X
Client Sample	9/19/2011	9/21/2011	1109164-06	GW0138						X
Trip Blank	9/20/2011	9/21/2011	1109164-07	GW8113-TB						
Client Sample	9/28/2011	9/30/2011	1109252-01	GW0139	X	X	X	X	X	X
Client Sample	9/28/2011	9/30/2011	1109252-02	GW0139						X
Client Sample	9/28/2011	9/30/2011	1109252-03	GW0189	X	X	X	X	X	X
Client Sample	9/28/2011	9/30/2011	1109252-04	GW0189						X
Client Sample	9/29/2011	9/30/2011	1109252-05	GW0210	X	X	X	X	X	X
Client Sample	9/29/2011	9/30/2011	1109252-06	GW0210						X
Trip Blank	9/28/2011	9/30/2011	1109252-07	GW8114-TB						

Sample Type	Sampled	Received	Lab ID	Client ID	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	9/20/2011	9/21/2011	1109164-01	GW0134	X	X	X	X	X
Client Sample	9/20/2011	9/21/2011	1109164-02	GW0134					
Client Sample	9/20/2011	9/21/2011	1109164-03	GW0135	X	X	X	X	X
Client Sample	9/20/2011	9/21/2011	1109164-04	GW0135					
Client Sample	9/19/2011	9/21/2011	1109164-05	GW0138	X	X	X	X	X
Client Sample	9/19/2011	9/21/2011	1109164-06	GW0138					
Trip Blank	9/20/2011	9/21/2011	1109164-07	GW8113-TB				X	
Client Sample	9/28/2011	9/30/2011	1109252-01	GW0139	X	X	X	X	X
Client Sample	9/28/2011	9/30/2011	1109252-02	GW0139					
Client Sample	9/28/2011	9/30/2011	1109252-03	GW0189	X	X	X	X	X
Client Sample	9/28/2011	9/30/2011	1109252-04	GW0189					
Client Sample	9/29/2011	9/30/2011	1109252-05	GW0210	X	X	X	X	X
Client Sample	9/29/2011	9/30/2011	1109252-06	GW0210					
Trip Blank	9/28/2011	9/30/2011	1109252-07	GW8114-TB				X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01	File ID:	0916401D.D
Sampled:	09/20/11 12:59	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 18:11
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	651	125	250	500	D
71-43-2	Benzene	1250	12.5	25.0	50.0	Q, 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	Y, U
104-51-8	n-Butylbenzene	24.9	12.5	25.0	50.0	J, D
78-93-3	2-Butanone	238	125	250	500	Y, J, D
135-98-8	sec-Butylbenzene	18.1	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide		12.5	25.0	50.0	U
56-23-5	Carbon tetrachloride		12.5	25.0	50.0	U
108-90-7	Chlorobenzene	19.0	12.5	25.0	50.0	J, D
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	Y, 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)	75.5	12.5	25.0	50.0	D
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	Y, 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	286	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	X, U

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01	File ID:	0916401D.D
Sampled:	09/20/11 12:59	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 18:11
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	200	62.5	125	250	J, D
98-82-8	Isopropylbenzene	31.9	12.5	25.0	50.0	J, D
99-87-6	p-Isopropyltoluene	15.1	12.5	25.0	50.0	J, D
75-09-2	Methylene chloride		25.0	50.0	100	Y, U
91-20-3	Naphthalene	137	12.5	25.0	50.0	X, D
108-10-1	4-Methyl-2-pentanone		62.5	125	250	U
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	Y, U
103-65-1	n-Propylbenzene	38.9	12.5	25.0	50.0	J, 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	4230	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	X, U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	X, 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	119	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	270	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
108-38-3/106-42-	m,p-Xylene	1200	25.0	50.0	100	D
95-47-6	o-Xylene	521	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.97	103	75 - 120	
Dibromofluoromethane	30.00	31.60	105	85 - 115	
1,2-Dichloroethane-d4	30.00	28.45	94.8	70 - 120	
Toluene-d8	30.00	30.90	103	85 - 120	

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03	File ID:	0916403D.D
Sampled:	09/20/11 12:59	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 18:38
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	695	125	250	500	D
71-43-2	Benzene	1230	12.5	25.0	50.0	Q, 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	Y, U
104-51-8	n-Butylbenzene	28.9	12.5	25.0	50.0	J, D
78-93-3	2-Butanone	238	125	250	500	Y, J, D
135-98-8	sec-Butylbenzene	19.8	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide	237	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	Y, 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)	74.8	12.5	25.0	50.0	D
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	Y, 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	288	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	X, U

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03	File ID:	0916403D.D
Sampled:	09/20/11 12:59	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 18:38
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	222	62.5	125	250	J, D
98-82-8	Isopropylbenzene	33.6	12.5	25.0	50.0	J, D
99-87-6	p-Isopropyltoluene	15.6	12.5	25.0	50.0	J, D
75-09-2	Methylene chloride	34.4	25.0	50.0	100	Y, J, D
91-20-3	Naphthalene	147	12.5	25.0	50.0	X, D
108-10-1	4-Methyl-2-pentanone		62.5	125	250	U
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	Y, U
103-65-1	n-Propylbenzene	38.5	12.5	25.0	50.0	J, 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	4190	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	X, U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	X, 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	120	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	272	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
108-38-3/106-42-	m,p-Xylene	1190	25.0	50.0	100	D
95-47-6	o-Xylene	523	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.02	103	75 - 120	
Dibromofluoromethane	30.00	31.00	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.08	96.9	70 - 120	
Toluene-d8	30.00	31.04	103	85 - 120	

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05	File ID:	0916405D.D
Sampled:	09/19/11 11:37	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 19:05
Solids:		Preparation:	5030B	Dilution:	20

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1070	50.0	100	200	D
71-43-2	Benzene	2470	5.00	10.0	20.0	Q, D
108-86-1	Bromobenzene		5.00	10.0	20.0	U
74-97-5	Bromochloromethane		5.00	10.0	20.0	U
75-27-4	Bromodichloromethane		5.00	10.0	20.0	U
75-25-2	Bromoform		5.00	10.0	20.0	U
74-83-9	Bromomethane		10.0	20.0	40.0	Y, U
104-51-8	n-Butylbenzene	20.0	5.00	10.0	20.0	D
78-93-3	2-Butanone	197	50.0	100	200	Y, J, D
135-98-8	sec-Butylbenzene	20.2	5.00	10.0	20.0	D
98-06-6	tert-Butylbenzene	39.1	5.00	10.0	20.0	D
75-15-0	Carbon disulfide		5.00	10.0	20.0	U
56-23-5	Carbon tetrachloride		5.00	10.0	20.0	U
108-90-7	Chlorobenzene		5.00	10.0	20.0	U
75-00-3	Chloroethane		10.0	20.0	40.0	U
67-66-3	Chloroform		5.00	10.0	20.0	U
74-87-3	Chloromethane		5.00	10.0	20.0	Y, U
95-49-8	2-Chlorotoluene		5.00	10.0	20.0	U
106-43-4	4-Chlorotoluene		5.00	10.0	20.0	U
124-48-1	Dibromochloromethane		5.00	10.0	20.0	U
96-12-8	1,2-Dibromo-3-chloropropane		10.0	20.0	40.0	U
106-93-4	1,2-Dibromoethane (EDB)	101	5.00	10.0	20.0	D
74-95-3	Dibromomethane		5.00	10.0	20.0	U
95-50-1	1,2-Dichlorobenzene		5.00	10.0	20.0	U
541-73-1	1,3-Dichlorobenzene		5.00	10.0	20.0	U
106-46-7	1,4-Dichlorobenzene		5.00	10.0	20.0	U
75-71-8	Dichlorodifluoromethane		10.0	20.0	40.0	U
75-34-3	1,1-Dichloroethane		5.00	10.0	20.0	U
107-06-2	1,2-Dichloroethane		5.00	10.0	20.0	U
75-35-4	1,1-Dichloroethene		5.00	10.0	20.0	U
156-59-2	cis-1,2-Dichloroethene		5.00	10.0	20.0	U
156-60-5	trans-1,2-Dichloroethene		5.00	10.0	20.0	Y, U
78-87-5	1,2-Dichloropropane		5.00	10.0	20.0	U
142-28-9	1,3-Dichloropropane		5.00	10.0	20.0	U
594-20-7	2,2-Dichloropropane		5.00	10.0	20.0	U
563-58-6	1,1-Dichloropropene		5.00	10.0	20.0	U
10061-01-5	cis-1,3-Dichloropropene		5.00	10.0	20.0	U
10061-02-6	trans-1,3-Dichloropropene		5.00	10.0	20.0	U
100-41-4	Ethylbenzene	347	5.00	10.0	20.0	D
87-68-3	Hexachlorobutadiene		5.00	10.0	20.0	X, U

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05	File ID:	0916405D.D
Sampled:	09/19/11 11:37	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 19:05
Solids:		Preparation:	5030B	Dilution:	20

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	302	25.0	50.0	100	D
98-82-8	Isopropylbenzene	56.3	5.00	10.0	20.0	D
99-87-6	p-Isopropyltoluene	11.0	5.00	10.0	20.0	J, D
75-09-2	Methylene chloride	16.7	10.0	20.0	40.0	Y, J, D
91-20-3	Naphthalene	196	5.00	10.0	20.0	X, D
108-10-1	4-Methyl-2-pentanone	213	25.0	50.0	100	D
1634-04-4	Methyl t-Butyl Ether		5.00	10.0	20.0	Y, U
103-65-1	n-Propylbenzene	73.9	5.00	10.0	20.0	D
100-42-5	Styrene		5.00	10.0	20.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.00	10.0	20.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.00	10.0	20.0	U
127-18-4	Tetrachloroethene		5.00	10.0	20.0	U
108-88-3	Toluene	3310	5.00	10.0	20.0	D
87-61-6	1,2,3-Trichlorobenzene		5.00	10.0	20.0	X, U
120-82-1	1,2,4-Trichlorobenzene		5.00	10.0	20.0	X, U
79-00-5	1,1,2-Trichloroethane		5.00	10.0	20.0	U
71-55-6	1,1,1-Trichloroethane		5.00	10.0	20.0	U
79-01-6	Trichloroethene		5.00	10.0	20.0	U
75-69-4	Trichlorofluoromethane		10.0	20.0	40.0	U
96-18-4	1,2,3-Trichloropropane		10.0	20.0	40.0	U
108-67-8	1,3,5-Trimethylbenzene	105	5.00	10.0	20.0	D
95-63-6	1,2,4-Trimethylbenzene	286	5.00	10.0	20.0	D
75-01-4	Vinyl chloride		5.00	10.0	20.0	U
108-38-3/106-42-	m,p-Xylene	1030	10.0	20.0	40.0	D
95-47-6	o-Xylene	414	5.00	10.0	20.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.43	105	75 - 120	
Dibromofluoromethane	30.00	30.90	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.05	96.8	70 - 120	
Toluene-d8	30.00	31.14	104	85 - 120	

ANALYSIS DATA SHEET

GW8113-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-07	File ID:	0916407.D
Sampled:	09/20/11 08:00	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 10:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 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	Q, 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	Y, 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	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8113-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-07	File ID:	0916407.D
Sampled:	09/20/11 08:00	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 10:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 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	1.00	X, 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	Y, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, 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
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.70	102	75 - 120	
Dibromofluoromethane	30.00	30.96	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.18	97.3	70 - 120	
Toluene-d8	30.00	32.22	107	85 - 120	

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	0925201D.D
Sampled:	09/28/11 15:28	Prepared:	10/04/11 00:00	Analyzed:	10/04/11 17:57
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		125	250	500	X, U
71-43-2	Benzene	3670	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	Y, U
104-51-8	n-Butylbenzene	20.3	12.5	25.0	50.0	J, D
78-93-3	2-Butanone		125	250	500	U
135-98-8	sec-Butylbenzene	20.6	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide	51.4	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	Y, 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	830	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	X, U

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	0925201D.D
Sampled:	09/28/11 15:28	Prepared:	10/04/11 00:00	Analyzed:	10/04/11 17:57
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		62.5	125	250	U
98-82-8	Isopropylbenzene	77.6	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene	13.7	12.5	25.0	50.0	X, J, D
75-09-2	Methylene chloride		25.0	50.0	100	U
91-20-3	Naphthalene	109	12.5	25.0	50.0	X, D
108-10-1	4-Methyl-2-pentanone		62.5	125	250	U
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	93.8	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	447	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	X, U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	X, 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	99.3	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	200	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
108-38-3/106-42-	m,p-Xylene	201	25.0	50.0	100	D
95-47-6	o-Xylene	173	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.94	103	75 - 120	
Dibromofluoromethane	30.00	31.51	105	85 - 115	
1,2-Dichloroethane-d4	30.00	28.61	95.4	70 - 120	
Toluene-d8	30.00	31.22	104	85 - 120	

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	0925203D.D
Sampled:	09/28/11 10:49	Prepared:	10/04/11 00:00	Analyzed:	10/04/11 18:23
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1190	125	250	500	X, D
71-43-2	Benzene	2580	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	Y, U
104-51-8	n-Butylbenzene	24.6	12.5	25.0	50.0	J, D
78-93-3	2-Butanone	193	125	250	500	J, D
135-98-8	sec-Butylbenzene	22.9	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide	18.5	12.5	25.0	50.0	J, 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	Y, 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)	134	12.5	25.0	50.0	D
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	1040	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	X, U

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	0925203D.D
Sampled:	09/28/11 10:49	Prepared:	10/04/11 00:00	Analyzed:	10/04/11 18:23
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	272	62.5	125	250	D
98-82-8	Isopropylbenzene	111	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene	15.9	12.5	25.0	50.0	X, J, D
75-09-2	Methylene chloride		25.0	50.0	100	U
91-20-3	Naphthalene	188	12.5	25.0	50.0	X, D
108-10-1	4-Methyl-2-pentanone	130	62.5	125	250	J, D
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	133	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	8150	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	X, U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	X, 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	159	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	471	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
108-38-3/106-42-	m,p-Xylene	2780	25.0	50.0	100	D
95-47-6	o-Xylene	1110	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.07	104	75 - 120	
Dibromofluoromethane	30.00	30.86	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.05	96.8	70 - 120	
Toluene-d8	30.00	30.82	103	85 - 120	

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	0925205D.D
Sampled:	09/29/11 10:36	Prepared:	10/04/11 00:00	Analyzed:	10/04/11 18:50
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	2470	250	500	1000	X, D
71-43-2	Benzene	5170	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	Y, U
104-51-8	n-Butylbenzene	45.9	25.0	50.0	100	J, D
78-93-3	2-Butanone	305	250	500	1000	J, D
135-98-8	sec-Butylbenzene	31.7	25.0	50.0	100	J, D
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Y, 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)	175	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	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	895	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	X, U

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	0925205D.D
Sampled:	09/29/11 10:36	Prepared:	10/04/11 00:00	Analyzed:	10/04/11 18:50
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	282	125	250	500	J, D
98-82-8	Isopropylbenzene	91.3	25.0	50.0	100	J, D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	X, U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	471	25.0	50.0	100	X, D
108-10-1	4-Methyl-2-pentanone	157	125	250	500	J, D
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	125	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	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	8740	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	X, U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	X, 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	182	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	643	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
108-38-3/106-42-	m,p-Xylene	2650	50.0	100	200	D
95-47-6	o-Xylene	1150	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.31	104	75 - 120	
Dibromofluoromethane	30.00	31.35	105	85 - 115	
1,2-Dichloroethane-d4	30.00	28.71	95.7	70 - 120	
Toluene-d8	30.00	31.01	103	85 - 120	

ANALYSIS DATA SHEET

GW8114-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-07	File ID:	0925207.D
Sampled:	09/28/11 08:00	Prepared:	10/03/11 00:00	Analyzed:	10/03/11 12:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

GW8114-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-07	File ID:	0925207.D
Sampled:	09/28/11 08:00	Prepared:	10/03/11 00:00	Analyzed:	10/03/11 12:19
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 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	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, 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
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.10	104	75 - 120	
Dibromofluoromethane	30.00	31.94	106	85 - 115	
1,2-Dichloroethane-d4	30.00	28.87	96.2	70 - 120	
Toluene-d8	30.00	32.54	108	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27206	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27206-CCV1) ug/L				Lab File ID: 0928CCV1.D		Analyzed: 09/28/11 08:21		
Bromofluorobenzene	30.00	104	80 - 120	12.217	12.217	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.912	6.912	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.9	80 - 120	7.404	7.404	0.0000	+/-1.000	
Toluene-d8	30.00	108	80 - 120	9.609	9.609	0.0000	+/-1.000	
LCS (1I28018-BS1) ug/L				Lab File ID: 0928LCS1.D		Analyzed: 09/28/11 08:48		
Bromofluorobenzene	30.00	105	75 - 120	12.223	12.217	0.0060	+/-1.000	
Dibromofluoromethane	30.00	99.0	85 - 115	6.908	6.912	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.6	70 - 120	7.4	7.404	-0.0040	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.605	9.609	-0.0040	+/-1.000	
Blank (1I28018-BLK1) ug/L				Lab File ID: 0928BLK1.D		Analyzed: 09/28/11 10:06		
Bromofluorobenzene	30.00	102	75 - 120	12.212	12.217	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.907	6.912	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.9	70 - 120	7.399	7.404	-0.0050	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.604	9.609	-0.0050	+/-1.000	
GW8113-TB (1109164-07) ug/L				Lab File ID: 0916407.D		Analyzed: 09/28/11 10:33		
Bromofluorobenzene	30.00	102	75 - 120	12.216	12.217	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.911	6.912	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.3	70 - 120	7.403	7.404	-0.0010	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.608	9.609	-0.0010	+/-1.000	
GW0134 (1109164-01) ug/L				Lab File ID: 0916401D.D		Analyzed: 09/28/11 18:11		
Bromofluorobenzene	30.00	103	75 - 120	12.224	12.217	0.0070	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.909	6.912	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.8	70 - 120	7.401	7.404	-0.0030	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.606	9.609	-0.0030	+/-1.000	
GW0135 (1109164-03) ug/L				Lab File ID: 0916403D.D		Analyzed: 09/28/11 18:38		
Bromofluorobenzene	30.00	103	75 - 120	12.218	12.217	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.913	6.912	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.9	70 - 120	7.405	7.404	0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.61	9.609	0.0010	+/-1.000	
GW0138 (1109164-05) ug/L				Lab File ID: 0916405D.D		Analyzed: 09/28/11 19:05		
Bromofluorobenzene	30.00	105	75 - 120	12.222	12.217	0.0050	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.917	6.912	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.8	70 - 120	7.409	7.404	0.0050	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.614	9.609	0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27206	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1I28018-BSD1) ug/L				Lab File ID: 0928LCD1.D		Analyzed: 09/28/11 19:31		
Bromofluorobenzene	30.00	103	75 - 120	12.218	12.217	0.0010	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.913	6.912	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.9	70 - 120	7.406	7.404	0.0020	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.61	9.609	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27701	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27701-CCV1) ug/L				Lab File ID: 1003CCV1.D		Analyzed: 10/03/11 09:56		
Bromofluorobenzene	30.00	108	80 - 120	12.209	12.209	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.894	6.894	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.2	80 - 120	7.387	7.387	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.591	9.591	0.0000	+/-1.000	
LCS (1J03011-BS1) ug/L				Lab File ID: 1003LCS1.D		Analyzed: 10/03/11 10:34		
Bromofluorobenzene	30.00	105	75 - 120	12.208	12.209	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.893	6.894	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.2	70 - 120	7.385	7.387	-0.0020	+/-1.000	
Toluene-d8	30.00	109	85 - 120	9.6	9.591	0.0090	+/-1.000	
Blank (1J03011-BLK1) ug/L				Lab File ID: 1003BLK1.D		Analyzed: 10/03/11 11:52		
Bromofluorobenzene	30.00	101	75 - 120	12.213	12.209	0.0040	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.898	6.894	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.5	70 - 120	7.39	7.387	0.0030	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.595	9.591	0.0040	+/-1.000	
GW8114-TB (1109252-07) ug/L				Lab File ID: 0925207.D		Analyzed: 10/03/11 12:19		
Bromofluorobenzene	30.00	104	75 - 120	12.213	12.209	0.0040	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.898	6.894	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	7.39	7.387	0.0030	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.595	9.591	0.0040	+/-1.000	
LCS Dup (1J03011-BSD1) ug/L				Lab File ID: 1003LCD1.D		Analyzed: 10/03/11 21:39		
Bromofluorobenzene	30.00	108	75 - 120	12.212	12.209	0.0030	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.897	6.894	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.4	70 - 120	7.389	7.387	0.0020	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.594	9.591	0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27803	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27803-CCV1) ug/L				Lab File ID: 1004CCV1.D		Analyzed: 10/04/11 10:44		
Bromofluorobenzene	30.00	105	80 - 120	12.208	12.208	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	6.894	6.894	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	80 - 120	7.386	7.386	0.0000	+/-1.000	
Toluene-d8	30.00	110	80 - 120	9.6	9.6	0.0000	+/-1.000	
LCS (1J04013-BS1) ug/L				Lab File ID: 1004LCS1.D		Analyzed: 10/04/11 11:18		
Bromofluorobenzene	30.00	106	75 - 120	12.212	12.208	0.0040	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.888	6.894	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.1	70 - 120	7.39	7.386	0.0040	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.594	9.6	-0.0060	+/-1.000	
Blank (1J04013-BLK1) ug/L				Lab File ID: 1004BLK1.D		Analyzed: 10/04/11 12:36		
Bromofluorobenzene	30.00	103	75 - 120	12.209	12.208	0.0010	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.894	6.894	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	70 - 120	7.386	7.386	0.0000	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.591	9.6	-0.0090	+/-1.000	
GW0139 (1109252-01) ug/L				Lab File ID: 0925201D.D		Analyzed: 10/04/11 17:57		
Bromofluorobenzene	30.00	103	75 - 120	12.205	12.208	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.89	6.894	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.4	70 - 120	7.392	7.386	0.0060	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.597	9.6	-0.0030	+/-1.000	
GW0189 (1109252-03) ug/L				Lab File ID: 0925203D.D		Analyzed: 10/04/11 18:23		
Bromofluorobenzene	30.00	104	75 - 120	12.213	12.208	0.0050	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.898	6.894	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.8	70 - 120	7.391	7.386	0.0050	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.595	9.6	-0.0050	+/-1.000	
GW0210 (1109252-05) ug/L				Lab File ID: 0925205D.D		Analyzed: 10/04/11 18:50		
Bromofluorobenzene	30.00	104	75 - 120	12.206	12.208	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.901	6.894	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.7	70 - 120	7.393	7.386	0.0070	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.598	9.6	-0.0020	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I28018	Laboratory ID:	1I28018-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	81.1	81.1	40 - 140
Benzene	**50.00**	**39.8**	**79.6**	**80 - 120**
Bromobenzene	50.00	47.8	95.5	75 - 125
Bromochloromethane	50.00	44.0	88.1	65 - 130
Bromodichloromethane	50.00	42.8	85.6	75 - 120
Bromoform	50.00	52.0	104	70 - 130
Bromomethane	50.00	36.9	73.8	30 - 145
n-Butylbenzene	50.00	52.5	105	70 - 135
2-Butanone	100.0	67.9	67.9	30 - 150
sec-Butylbenzene	50.00	51.8	104	70 - 125
tert-Butylbenzene	50.00	51.9	104	70 - 130
Carbon disulfide	50.00	37.6	75.2	35 - 160
Carbon tetrachloride	50.00	50.6	101	65 - 140
Chlorobenzene	50.00	45.5	91.0	80 - 120
Chloroethane	50.00	45.0	90.0	60 - 135
Chloroform	50.00	43.5	87.0	65 - 135
Chloromethane	50.00	39.7	79.5	40 - 125
2-Chlorotoluene	50.00	49.2	98.5	75 - 125
4-Chlorotoluene	50.00	49.9	99.8	75 - 130
Dibromochloromethane	50.00	47.0	94.1	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.4	98.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	45.2	90.3	80 - 120
Dibromomethane	50.00	42.6	85.3	75 - 125
1,2-Dichlorobenzene	50.00	51.1	102	70 - 120
1,3-Dichlorobenzene	50.00	49.8	99.6	75 - 125
1,4-Dichlorobenzene	50.00	50.1	100	75 - 125
Dichlorodifluoromethane	50.00	51.3	103	30 - 155
1,1-Dichloroethane	50.00	40.1	80.2	70 - 135
1,2-Dichloroethane	50.00	46.8	93.7	70 - 130
1,1-Dichloroethene	50.00	44.0	88.0	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I28018	Laboratory ID:	1I28018-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	41.5	83.0	70 - 125
trans-1,2-Dichloroethene	50.00	37.6	75.2	60 - 140
1,2-Dichloropropane	50.00	38.5	76.9	75 - 125
1,3-Dichloropropane	50.00	43.5	86.9	75 - 125
2,2-Dichloropropane	50.00	47.7	95.5	70 - 135
1,1-Dichloropropene	50.00	42.9	85.7	75 - 130
cis-1,3-Dichloropropene	50.00	43.1	86.2	70 - 130
trans-1,3-Dichloropropene	50.00	40.0	80.0	55 - 140
Ethylbenzene	50.00	45.9	91.7	75 - 125
Hexachlorobutadiene	50.00	62.7	125	50 - 140
2-Hexanone	100.0	74.3	74.3	55 - 130
Isopropylbenzene	50.00	46.2	92.3	75 - 125
p-Isopropyltoluene	50.00	50.4	101	75 - 130
Methylene chloride	50.00	39.7	79.4	55 - 140
Naphthalene	50.00	62.7	125	55 - 140
4-Methyl-2-pentanone	100.0	74.2	74.2	60 - 135
Methyl t-Butyl Ether	50.00	37.5	75.0	65 - 125
n-Propylbenzene	50.00	48.8	97.6	70 - 130
Styrene	50.00	45.9	91.9	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.4	86.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	46.3	92.6	80 - 130
Tetrachloroethene	50.00	47.8	95.7	45 - 150
Toluene	50.00	42.7	85.5	75 - 120
1,2,3-Trichlorobenzene	50.00	63.6	127	55 - 140
1,2,4-Trichlorobenzene	50.00	58.9	118	65 - 135
1,1,2-Trichloroethane	50.00	42.4	84.9	75 - 125
1,1,1-Trichloroethane	50.00	49.3	98.7	65 - 130
Trichloroethene	50.00	44.2	88.3	70 - 125
Trichlorofluoromethane	50.00	51.3	103	60 - 145
1,2,3-Trichloropropane	50.00	48.0	95.9	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I28018	Laboratory ID:	1I28018-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	52.7	105	75 - 130
1,2,4-Trimethylbenzene	50.00	51.5	103	75 - 130
Vinyl chloride	50.00	54.3	109	50 - 145
m,p-Xylene	100.0	95.3	95.3	75 - 130
o-Xylene	50.00	46.5	93.0	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	79.8	79.8	1.56	30	40 - 140
Benzene	50.00	41.3	82.7	3.81	30	80 - 120
Bromobenzene	50.00	49.3	98.5	3.07	30	75 - 125
Bromochloromethane	50.00	46.3	92.7	5.12	30	65 - 130
Bromodichloromethane	50.00	43.8	87.6	2.29	30	75 - 120
Bromoform	50.00	51.1	102	1.57	30	70 - 130
Bromomethane	50.00	33.0	66.1	11.1	30	30 - 145
n-Butylbenzene	50.00	51.5	103	2.03	30	70 - 135
2-Butanone	100.0	72.2	72.2	6.07	30	30 - 150
sec-Butylbenzene	50.00	52.3	105	0.850	30	70 - 125
tert-Butylbenzene	50.00	52.3	105	0.854	30	70 - 130
Carbon disulfide	50.00	35.7	71.3	5.21	30	35 - 160
Carbon tetrachloride	50.00	49.7	99.4	1.69	30	65 - 140
Chlorobenzene	50.00	47.8	95.6	4.90	30	80 - 120
Chloroethane	50.00	46.0	92.1	2.30	30	60 - 135
Chloroform	50.00	44.9	89.7	3.04	30	65 - 135
Chloromethane	50.00	41.9	83.7	5.21	30	40 - 125
2-Chlorotoluene	50.00	48.8	97.6	0.929	30	75 - 125
4-Chlorotoluene	50.00	49.9	99.8	0.00982	30	75 - 130
Dibromochloromethane	50.00	47.3	94.7	0.607	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.0	100	1.09	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.2	94.3	4.34	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I28018	Laboratory ID:	1I28018-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.
Dibromomethane	50.00	43.9	87.8	2.95	30	75 - 125
1,2-Dichlorobenzene	50.00	51.4	103	0.671	30	70 - 120
1,3-Dichlorobenzene	50.00	50.1	100	0.586	30	75 - 125
1,4-Dichlorobenzene	50.00	50.7	101	1.19	30	75 - 125
Dichlorodifluoromethane	50.00	50.5	101	1.57	30	30 - 155
1,1-Dichloroethane	50.00	42.6	85.3	6.11	30	70 - 135
1,2-Dichloroethane	50.00	47.9	95.7	2.17	30	70 - 130
1,1-Dichloroethene	50.00	43.8	87.7	0.339	30	70 - 130
cis-1,2-Dichloroethene	50.00	43.1	86.1	3.67	30	70 - 125
trans-1,2-Dichloroethene	50.00	40.5	81.1	7.50	30	60 - 140
1,2-Dichloropropane	50.00	40.8	81.5	5.80	30	75 - 125
1,3-Dichloropropane	50.00	45.5	91.0	4.51	30	75 - 125
2,2-Dichloropropane	50.00	43.9	87.7	8.46	30	70 - 135
1,1-Dichloropropene	50.00	43.5	87.0	1.52	30	75 - 130
cis-1,3-Dichloropropene	50.00	44.0	88.0	2.03	30	70 - 130
trans-1,3-Dichloropropene	50.00	40.1	80.1	0.0966	30	55 - 140
Ethylbenzene	50.00	47.3	94.5	3.03	30	75 - 125
Hexachlorobutadiene	50.00	55.4	111	12.4	30	50 - 140
2-Hexanone	100.0	78.7	78.7	5.78	30	55 - 130
Isopropylbenzene	50.00	46.8	93.5	1.31	30	75 - 125
p-Isopropyltoluene	50.00	49.9	99.8	1.04	30	75 - 130
Methylene chloride	50.00	40.3	80.7	1.53	30	55 - 140
Naphthalene	50.00	65.0	130	3.63	30	55 - 140
4-Methyl-2-pentanone	100.0	79.0	79.0	6.29	30	60 - 135
Methyl t-Butyl Ether	50.00	41.1	82.1	9.12	30	65 - 125
n-Propylbenzene	50.00	49.4	98.8	1.26	30	70 - 130
Styrene	50.00	47.6	95.2	3.51	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	44.3	88.5	2.07	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.2	96.3	3.91	30	80 - 130
Tetrachloroethene	50.00	47.9	95.9	0.198	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I28018	Laboratory ID:	1I28018-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.
Toluene	50.00	44.9	89.8	4.89	30	75 - 120
1,2,3-Trichlorobenzene	50.00	64.1	128	0.746	30	55 - 140
1,2,4-Trichlorobenzene	50.00	57.8	116	1.94	30	65 - 135
1,1,2-Trichloroethane	50.00	44.1	88.2	3.83	30	75 - 125
1,1,1-Trichloroethane	50.00	49.9	99.7	1.05	30	65 - 130
Trichloroethene	50.00	44.1	88.2	0.112	30	70 - 125
Trichlorofluoromethane	50.00	51.5	103	0.293	30	60 - 145
1,2,3-Trichloropropane	50.00	49.0	98.0	2.16	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.3	107	1.20	30	75 - 130
1,2,4-Trimethylbenzene	50.00	52.3	105	1.36	30	75 - 130
Vinyl chloride	50.00	53.1	106	2.31	30	50 - 145
m,p-Xylene	100.0	97.9	97.9	2.68	30	75 - 130
o-Xylene	50.00	46.9	93.8	0.855	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03011	Laboratory ID:	1J03011-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	82.3	82.3	40 - 140
Benzene	50.00	41.4	82.7	80 - 120
Bromobenzene	50.00	50.1	100	75 - 125
Bromochloromethane	50.00	46.8	93.6	65 - 130
Bromodichloromethane	50.00	45.9	91.8	75 - 120
Bromoform	50.00	54.1	108	70 - 130
Bromomethane	50.00	25.6	51.2	30 - 145
n-Butylbenzene	50.00	53.9	108	70 - 135
2-Butanone	100.0	71.9	71.9	30 - 150
sec-Butylbenzene	50.00	54.3	109	70 - 125
tert-Butylbenzene	50.00	55.8	112	70 - 130
Carbon disulfide	50.00	38.1	76.3	35 - 160
Carbon tetrachloride	50.00	53.0	106	65 - 140
Chlorobenzene	50.00	47.9	95.9	80 - 120
Chloroethane	50.00	47.9	95.9	60 - 135
Chloroform	50.00	46.5	93.0	65 - 135
Chloromethane	50.00	37.1	74.2	40 - 125
2-Chlorotoluene	50.00	51.5	103	75 - 125
4-Chlorotoluene	50.00	52.1	104	75 - 130
Dibromochloromethane	50.00	49.5	98.9	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.6	101	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.0	94.1	80 - 120
Dibromomethane	50.00	44.3	88.6	75 - 125
1,2-Dichlorobenzene	50.00	52.1	104	70 - 120
1,3-Dichlorobenzene	50.00	51.6	103	75 - 125
1,4-Dichlorobenzene	50.00	52.6	105	75 - 125
Dichlorodifluoromethane	50.00	51.5	103	30 - 155
1,1-Dichloroethane	50.00	44.5	89.0	70 - 135
1,2-Dichloroethane	50.00	50.4	101	70 - 130
1,1-Dichloroethene	50.00	43.7	87.3	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03011	Laboratory ID:	1J03011-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	43.3	86.6	70 - 125
trans-1,2-Dichloroethene	50.00	40.1	80.2	60 - 140
1,2-Dichloropropane	50.00	41.9	83.8	75 - 125
1,3-Dichloropropane	50.00	46.5	93.0	75 - 125
2,2-Dichloropropane	50.00	50.9	102	70 - 135
1,1-Dichloropropene	50.00	44.5	88.9	75 - 130
cis-1,3-Dichloropropene	50.00	46.2	92.3	70 - 130
trans-1,3-Dichloropropene	50.00	42.6	85.1	55 - 140
Ethylbenzene	50.00	46.9	93.8	75 - 125
Hexachlorobutadiene	50.00	65.4	131	50 - 140
2-Hexanone	100.0	77.0	77.0	55 - 130
Isopropylbenzene	50.00	46.8	93.6	75 - 125
p-Isopropyltoluene	50.00	53.1	106	75 - 130
Methylene chloride	50.00	41.5	82.9	55 - 140
Naphthalene	50.00	66.7	133	55 - 140
4-Methyl-2-pentanone	100.0	78.5	78.5	60 - 135
Methyl t-Butyl Ether	50.00	41.6	83.1	65 - 125
n-Propylbenzene	50.00	50.0	100	70 - 130
Styrene	50.00	46.8	93.7	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.1	92.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.1	100	80 - 130
Tetrachloroethene	50.00	47.6	95.3	45 - 150
Toluene	50.00	45.0	90.0	75 - 120
1,2,3-Trichlorobenzene	50.00	68.5	137	55 - 140
1,2,4-Trichlorobenzene	50.00	62.4	125	65 - 135
1,1,2-Trichloroethane	50.00	44.2	88.4	75 - 125
1,1,1-Trichloroethane	50.00	51.7	103	65 - 130
Trichloroethene	50.00	46.5	92.9	70 - 125
Trichlorofluoromethane	50.00	52.1	104	60 - 145
1,2,3-Trichloropropane	50.00	48.9	97.9	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03011	Laboratory ID:	1J03011-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	54.3	109	75 - 130
1,2,4-Trimethylbenzene	50.00	54.4	109	75 - 130
Vinyl chloride	50.00	55.5	111	50 - 145
m,p-Xylene	100.0	98.4	98.4	75 - 130
o-Xylene	50.00	46.9	93.9	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	76.1	76.1	7.84	30	40 - 140
Benzene	50.00	40.3	80.6	2.63	30	80 - 120
Bromobenzene	50.00	47.3	94.6	5.80	30	75 - 125
Bromochloromethane	50.00	44.4	88.7	5.32	30	65 - 130
Bromodichloromethane	50.00	45.5	91.0	0.875	30	75 - 120
Bromoform	50.00	50.4	101	6.94	30	70 - 130
Bromomethane	**50.00**	**13.6**	**27.3 ***	**61.1 ***	**30**	**30 - 145**
n-Butylbenzene	50.00	52.3	105	3.07	30	70 - 135
2-Butanone	100.0	69.3	69.3	3.70	30	30 - 150
sec-Butylbenzene	50.00	51.1	102	6.07	30	70 - 125
tert-Butylbenzene	50.00	52.8	106	5.58	30	70 - 130
Carbon disulfide	50.00	33.5	67.0	12.9	30	35 - 160
Carbon tetrachloride	50.00	49.8	99.7	6.21	30	65 - 140
Chlorobenzene	50.00	45.8	91.7	4.46	30	80 - 120
Chloroethane	50.00	40.3	80.5	17.4	30	60 - 135
Chloroform	50.00	46.1	92.3	0.802	30	65 - 135
Chloromethane	50.00	30.1	60.2	20.8	30	40 - 125
2-Chlorotoluene	50.00	50.0	99.9	3.10	30	75 - 125
4-Chlorotoluene	50.00	50.9	102	2.31	30	75 - 130
Dibromochloromethane	50.00	47.0	94.0	5.05	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.3	92.6	8.90	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	45.3	90.5	3.86	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03011	Laboratory ID:	1J03011-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.
Dibromomethane	50.00	44.2	88.4	0.233	30	75 - 125
1,2-Dichlorobenzene	50.00	51.0	102	2.17	30	70 - 120
1,3-Dichlorobenzene	50.00	49.4	98.9	4.21	30	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	3.42	30	75 - 125
Dichlorodifluoromethane	50.00	47.3	94.7	8.41	30	30 - 155
1,1-Dichloroethane	50.00	41.9	83.7	6.12	30	70 - 135
1,2-Dichloroethane	50.00	50.9	102	0.824	30	70 - 130
1,1-Dichloroethene	50.00	38.4	76.7	12.9	30	70 - 130
cis-1,2-Dichloroethene	50.00	42.1	84.3	2.77	30	70 - 125
trans-1,2-Dichloroethene	50.00	35.0	69.9	13.7	30	60 - 140
1,2-Dichloropropane	50.00	41.3	82.5	1.52	30	75 - 125
1,3-Dichloropropane	50.00	45.4	90.8	2.42	30	75 - 125
2,2-Dichloropropane	50.00	43.0	85.9	17.0	30	70 - 135
1,1-Dichloropropene	50.00	42.2	84.5	5.15	30	75 - 130
cis-1,3-Dichloropropene	50.00	42.9	85.7	7.39	30	70 - 130
trans-1,3-Dichloropropene	50.00	39.6	79.2	7.26	30	55 - 140
Ethylbenzene	50.00	46.9	93.8	0.0262	30	75 - 125
Hexachlorobutadiene	50.00	54.5	109	18.3	30	50 - 140
2-Hexanone	100.0	75.3	75.3	2.21	30	55 - 130
Isopropylbenzene	50.00	47.0	94.0	0.483	30	75 - 125
p-Isopropyltoluene	50.00	50.7	101	4.60	30	75 - 130
Methylene chloride	50.00	37.3	74.6	10.5	30	55 - 140
Naphthalene	50.00	62.5	125	6.51	30	55 - 140
4-Methyl-2-pentanone	100.0	79.9	79.9	1.81	30	60 - 135
Methyl t-Butyl Ether	50.00	36.1	72.2	14.1	30	65 - 125
n-Propylbenzene	50.00	48.9	97.9	2.23	30	70 - 130
Styrene	50.00	47.1	94.1	0.484	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.5	87.1	5.66	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	46.4	92.9	7.67	30	80 - 130
Tetrachloroethene	50.00	44.4	88.8	7.05	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03011	Laboratory ID:	1J03011-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.
Toluene	50.00	43.3	86.6	3.82	30	75 - 120
1,2,3-Trichlorobenzene	50.00	63.0	126	8.37	30	55 - 140
1,2,4-Trichlorobenzene	50.00	57.6	115	7.95	30	65 - 135
1,1,2-Trichloroethane	50.00	42.5	85.1	3.86	30	75 - 125
1,1,1-Trichloroethane	50.00	50.4	101	2.60	30	65 - 130
Trichloroethene	50.00	46.0	91.9	1.07	30	70 - 125
Trichlorofluoromethane	50.00	50.1	100	3.91	30	60 - 145
1,2,3-Trichloropropane	50.00	48.3	96.7	1.22	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.0	106	2.43	30	75 - 130
1,2,4-Trimethylbenzene	50.00	53.0	106	2.54	30	75 - 130
Vinyl chloride	50.00	46.3	92.5	18.2	30	50 - 145
m,p-Xylene	100.0	96.9	96.9	1.50	30	75 - 130
o-Xylene	50.00	47.8	95.7	1.92	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J04013	Laboratory ID:	1J04013-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	78.8	78.8	40 - 140
Benzene	50.00	41.5	82.9	80 - 120
Bromobenzene	50.00	51.2	102	75 - 125
Bromochloromethane	50.00	45.5	91.0	65 - 130
Bromodichloromethane	50.00	44.3	88.7	75 - 120
Bromoform	50.00	54.7	109	70 - 130
Bromomethane	50.00	19.4	38.9	30 - 145
n-Butylbenzene	50.00	54.0	108	70 - 135
2-Butanone	100.0	68.7	68.7	30 - 150
sec-Butylbenzene	50.00	53.5	107	70 - 125
tert-Butylbenzene	50.00	54.6	109	70 - 130
Carbon disulfide	50.00	38.1	76.3	35 - 160
Carbon tetrachloride	50.00	49.9	99.8	65 - 140
Chlorobenzene	50.00	47.0	94.1	80 - 120
Chloroethane	50.00	46.5	93.1	60 - 135
Chloroform	50.00	45.3	90.5	65 - 135
Chloromethane	50.00	32.1	64.2	40 - 125
2-Chlorotoluene	50.00	52.2	104	75 - 125
4-Chlorotoluene	50.00	52.2	104	75 - 130
Dibromochloromethane	50.00	49.1	98.2	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.6	99.2	50 - 130
1,2-Dibromoethane (EDB)	50.00	46.0	92.1	80 - 120
Dibromomethane	50.00	43.4	86.8	75 - 125
1,2-Dichlorobenzene	50.00	52.6	105	70 - 120
1,3-Dichlorobenzene	50.00	51.7	103	75 - 125
1,4-Dichlorobenzene	50.00	52.2	104	75 - 125
Dichlorodifluoromethane	50.00	50.3	101	30 - 155
1,1-Dichloroethane	50.00	43.5	87.0	70 - 135
1,2-Dichloroethane	50.00	48.1	96.2	70 - 130
1,1-Dichloroethene	50.00	43.5	87.0	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J04013	Laboratory ID:	1J04013-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	42.9	85.8	70 - 125
trans-1,2-Dichloroethene	50.00	39.2	78.5	60 - 140
1,2-Dichloropropane	50.00	40.9	81.9	75 - 125
1,3-Dichloropropane	50.00	45.1	90.3	75 - 125
2,2-Dichloropropane	50.00	48.2	96.5	70 - 135
1,1-Dichloropropene	50.00	42.9	85.9	75 - 130
cis-1,3-Dichloropropene	50.00	44.4	88.7	70 - 130
trans-1,3-Dichloropropene	50.00	41.9	83.9	55 - 140
Ethylbenzene	50.00	47.1	94.2	75 - 125
Hexachlorobutadiene	50.00	65.1	130	50 - 140
2-Hexanone	100.0	74.2	74.2	55 - 130
Isopropylbenzene	50.00	48.4	96.7	75 - 125
p-Isopropyltoluene	50.00	52.3	105	75 - 130
Methylene chloride	50.00	41.6	83.3	55 - 140
Naphthalene	50.00	65.7	131	55 - 140
4-Methyl-2-pentanone	100.0	75.2	75.2	60 - 135
Methyl t-Butyl Ether	50.00	39.1	78.2	65 - 125
n-Propylbenzene	50.00	51.2	102	70 - 130
Styrene	50.00	48.8	97.7	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.2	92.5	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.6	97.3	80 - 130
Tetrachloroethene	50.00	47.4	94.9	45 - 150
Toluene	50.00	45.0	89.9	75 - 120
1,2,3-Trichlorobenzene	50.00	67.2	134	55 - 140
1,2,4-Trichlorobenzene	50.00	61.7	123	65 - 135
1,1,2-Trichloroethane	50.00	44.4	88.7	75 - 125
1,1,1-Trichloroethane	50.00	50.3	101	65 - 130
Trichloroethene	50.00	45.3	90.6	70 - 125
Trichlorofluoromethane	50.00	51.5	103	60 - 145
1,2,3-Trichloropropane	50.00	49.3	98.7	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J04013	Laboratory ID:	1J04013-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	53.8	108	75 - 130
1,2,4-Trimethylbenzene	50.00	53.0	106	75 - 130
Vinyl chloride	50.00	54.7	109	50 - 145
m,p-Xylene	100.0	96.5	96.5	75 - 130
o-Xylene	50.00	49.4	98.7	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I28018 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/28/11 00:00	5.00	5.00
GW0135	1109164-03	09/28/11 00:00	5.00	5.00
GW0138	1109164-05	09/28/11 00:00	5.00	5.00
GW8113-TB	1109164-07	09/28/11 00:00	5.00	5.00
Blank	1I28018-BLK1	09/28/11 00:00	5.00	5.00
LCS	1I28018-BS1	09/28/11 00:00	5.00	5.00
LCS Dup	1I28018-BSD1	09/28/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J03011 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8114-TB	1109252-07	10/03/11 00:00	5.00	5.00
Blank	1J03011-BLK1	10/03/11 00:00	5.00	5.00
LCS	1J03011-BS1	10/03/11 00:00	5.00	5.00
LCS Dup	1J03011-BSD1	10/03/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J04013 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/04/11 00:00	5.00	5.00
GW0189	1109252-03	10/04/11 00:00	5.00	5.00
GW0210	1109252-05	10/04/11 00:00	5.00	5.00
Blank	1J04013-BLK1	10/04/11 00:00	5.00	5.00
LCS	1J04013-BS1	10/04/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0913TUN1.D	Injection Date:	09/13/11
Instrument ID:	MS-VOA6	Injection Time:	13:38
Sequence:	1I25809	Lab Sample ID:	1I25809-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29.6	PASS
75	30 - 60% of 95	54.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.49	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	58.8	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0928TUN1.D	Injection Date:	09/28/11
Instrument ID:	MS-VOA6	Injection Time:	07:55
Sequence:	1I27206	Lab Sample ID:	1I27206-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.8	PASS
75	30 - 60% of 95	52.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.87	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.9	PASS
175	5 - 9% of 174	6.95	PASS
176	95 - 101% of 174	98	PASS
177	5 - 9% of 176	6.29	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1003TUN1.D	Injection Date:	10/03/11
Instrument ID:	MS-VOA6	Injection Time:	09:29
Sequence:	1J27701	Lab Sample ID:	1J27701-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	27.6	PASS
75	30 - 60% of 95	56.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.22	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	74.1	PASS
175	5 - 9% of 174	7.34	PASS
176	95 - 101% of 174	98.2	PASS
177	5 - 9% of 176	6.19	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1004TUN1.D	Injection Date:	10/04/11
Instrument ID:	MS-VOA6	Injection Time:	09:39
Sequence:	1J27803	Lab Sample ID:	1J27803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	32.1	PASS
75	30 - 60% of 95	58.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.72	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	62.7	PASS
175	5 - 9% of 174	7.01	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	6.78	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25809	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25809-TUN1	0913TUN1.D	09/13/11 13:38
Cal Standard	1I25809-CAL1	0913CAL1.D	09/13/11 14:57
Cal Standard	1I25809-CAL2	0913CAL2.D	09/13/11 15:23
Cal Standard	1I25809-CAL3	0913CAL3.D	09/13/11 15:50
Cal Standard	1I25809-CAL4	0913CAL4.D	09/13/11 16:17
Cal Standard	1I25809-CAL5	0913CAL5.D	09/13/11 16:44
Cal Standard	1I25809-CAL6	0913CAL6.D	09/13/11 17:10
Cal Standard	1I25809-CAL7	0913CAL7.D	09/13/11 17:37
Cal Standard	1I25809-CAL8	0913CAL8.D	09/13/11 18:04
Cal Standard	1I25809-CAL9	0913CAL9.D	09/13/11 18:30
Initial Cal Check	1I25809-ICV2	0913ICV2.D	09/13/11 19:51

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27206	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I27206-TUN1	0928TUN1.D	09/28/11 07:55
Calibration Check	1I27206-CCV1	0928CCV1.D	09/28/11 08:21
LCS	1I28018-BS1	0928LCS1.D	09/28/11 08:48
Blank	1I28018-BLK1	0928BLK1.D	09/28/11 10:06
GW8113-TB	1109164-07	0916407.D	09/28/11 10:33
GW0134	1109164-01	0916401D.D	09/28/11 18:11
GW0135	1109164-03	0916403D.D	09/28/11 18:38
GW0138	1109164-05	0916405D.D	09/28/11 19:05
LCS Dup	1I28018-BSD1	0928LCD1.D	09/28/11 19:31

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27701	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J27701-TUN1	1003TUN1.D	10/03/11 09:29
Calibration Check	1J27701-CCV1	1003CCV1.D	10/03/11 09:56
LCS	1J03011-BS1	1003LCS1.D	10/03/11 10:34
Blank	1J03011-BLK1	1003BLK1.D	10/03/11 11:52
GW8114-TB	1109252-07	0925207.D	10/03/11 12:19
LCS Dup	1J03011-BSD1	1003LCD1.D	10/03/11 21:39

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27803	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J27803-TUN1	1004TUN1.D	10/04/11 09:39
Calibration Check	1J27803-CCV1	1004CCV1.D	10/04/11 10:44
LCS	1J04013-BS1	1004LCS1.D	10/04/11 11:18
Blank	1J04013-BLK1	1004BLK1.D	10/04/11 12:36
GW0139	1109252-01	0925201D.D	10/04/11 17:57
GW0189	1109252-03	0925203D.D	10/04/11 18:23
GW0210	1109252-05	0925205D.D	10/04/11 18:50

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27206	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I27206-CCV1)			Lab File ID: 0928CCV1.D			Analyzed: 09/28/11 08:21			
Fluorobenzene	1047949	7.926	858032	7.903	122	50 - 200	0.0230	+/-0.50	
Chlorobenzene-d5	481603	11.026	403998	11.013	119	50 - 200	0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	395139	13.418	333506	13.405	118	50 - 200	0.0130	+/-0.50	
LCS (1I28018-BS1)			Lab File ID: 0928LCS1.D			Analyzed: 09/28/11 08:48			
Fluorobenzene	1031413	7.922	1047949	7.926	98	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	471175	11.032	481603	11.026	98	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	387068	13.424	395139	13.418	98	50 - 200	0.0060	+/-0.50	
Blank (1I28018-BLK1)			Lab File ID: 0928BLK1.D			Analyzed: 09/28/11 10:06			
Fluorobenzene	912967	7.921	1047949	7.926	87	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	418956	11.031	481603	11.026	87	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	322043	13.413	395139	13.418	82	50 - 200	-0.0050	+/-0.50	
GW8113-TB (1109164-07)			Lab File ID: 0916407.D			Analyzed: 09/28/11 10:33			
Fluorobenzene	917630	7.925	1047949	7.926	88	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	417883	11.025	481603	11.026	87	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	324211	13.417	395139	13.418	82	50 - 200	-0.0010	+/-0.50	
GW0134 (1109164-01)			Lab File ID: 0916401D.D			Analyzed: 09/28/11 18:11			
Fluorobenzene	812807	7.923	1047949	7.926	78	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	384897	11.033	481603	11.026	80	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	306172	13.424	395139	13.418	77	50 - 200	0.0060	+/-0.50	
GW0135 (1109164-03)			Lab File ID: 0916403D.D			Analyzed: 09/28/11 18:38			
Fluorobenzene	856326	7.927	1047949	7.926	82	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	400834	11.027	481603	11.026	83	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	325347	13.419	395139	13.418	82	50 - 200	0.0010	+/-0.50	
GW0138 (1109164-05)			Lab File ID: 0916405D.D			Analyzed: 09/28/11 19:05			
Fluorobenzene	924459	7.931	1047949	7.926	88	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	432548	11.031	481603	11.026	90	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	352796	13.423	395139	13.418	89	50 - 200	0.0050	+/-0.50	
LCS Dup (1I28018-BSD1)			Lab File ID: 0928LCD1.D			Analyzed: 09/28/11 19:31			
Fluorobenzene	1032324	7.927	1047949	7.926	99	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	469191	11.027	481603	11.026	97	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	387825	13.419	395139	13.418	98	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27701	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J27701-CCV1)			Lab File ID: 1003CCV1.D			Analyzed: 10/03/11 09:56			
Fluorobenzene	919305	7.908	858032	7.903	107	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	421966	11.018	403998	11.013	104	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	333965	13.41	333506	13.405	100	50 - 200	0.0050	+/-0.50	
LCS (1J03011-BS1)			Lab File ID: 1003LCS1.D			Analyzed: 10/03/11 10:34			
Fluorobenzene	913797	7.907	919305	7.908	99	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	430160	11.017	421966	11.018	102	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	342756	13.409	333965	13.41	103	50 - 200	-0.0010	+/-0.50	
Blank (1J03011-BLK1)			Lab File ID: 1003BLK1.D			Analyzed: 10/03/11 11:52			
Fluorobenzene	824019	7.912	919305	7.908	90	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	380856	11.022	421966	11.018	90	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	281592	13.414	333965	13.41	84	50 - 200	0.0040	+/-0.50	
GW8114-TB (1109252-07)			Lab File ID: 0925207.D			Analyzed: 10/03/11 12:19			
Fluorobenzene	818248	7.912	919305	7.908	89	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	374479	11.022	421966	11.018	89	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	279740	13.414	333965	13.41	84	50 - 200	0.0040	+/-0.50	
LCS Dup (1J03011-BSD1)			Lab File ID: 1003LCD1.D			Analyzed: 10/03/11 21:39			
Fluorobenzene	815250	7.911	919305	7.908	89	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	386739	11.021	421966	11.018	92	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	325375	13.413	333965	13.41	97	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27803	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J27803-CCV1)			Lab File ID: 1004CCV1.D			Analyzed: 10/04/11 10:44			
Fluorobenzene	978052	7.917	858032	7.903	114	50 - 200	0.0140	+/-0.50	
Chlorobenzene-d5	441657	11.017	403998	11.013	109	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	349915	13.409	333506	13.405	105	50 - 200	0.0040	+/-0.50	
LCS (1J04013-BS1)			Lab File ID: 1004LCS1.D			Analyzed: 10/04/11 11:18			
Fluorobenzene	982952	7.911	978052	7.917	101	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	444014	11.021	441657	11.017	101	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	362700	13.413	349915	13.409	104	50 - 200	0.0040	+/-0.50	
Blank (1J04013-BLK1)			Lab File ID: 1004BLK1.D			Analyzed: 10/04/11 12:36			
Fluorobenzene	854788	7.908	978052	7.917	87	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	395845	11.018	441657	11.017	90	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	304024	13.409	349915	13.409	87	50 - 200	0.0000	+/-0.50	
GW0139 (1109252-01)			Lab File ID: 0925201D.D			Analyzed: 10/04/11 17:57			
Fluorobenzene	748126	7.904	978052	7.917	76	50 - 200	-0.0130	+/-0.50	
Chlorobenzene-d5	348567	11.014	441657	11.017	79	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	257244	13.406	349915	13.409	74	50 - 200	-0.0030	+/-0.50	
GW0189 (1109252-03)			Lab File ID: 0925203D.D			Analyzed: 10/04/11 18:23			
Fluorobenzene	802454	7.912	978052	7.917	82	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	382854	11.022	441657	11.017	87	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	303257	13.414	349915	13.409	87	50 - 200	0.0050	+/-0.50	
GW0210 (1109252-05)			Lab File ID: 0925205D.D			Analyzed: 10/04/11 18:50			
Fluorobenzene	777721	7.915	978052	7.917	80	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	367773	11.025	441657	11.017	83	50 - 200	0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	280823	13.407	349915	13.409	80	50 - 200	-0.0020	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	~~0.2025603~~	2	0.1457111	4	0.129836	10	0.1096288	20	0.1172883	100	0.1161553
Acrolein	2.502	5.512186E-02	5.005	4.513846E-02	10.01	4.647939E-02	25.02	4.550316E-02	50.05	4.562258E-02	250.2	4.706066E-02
Acrylonitrile	2.498	9.507946E-02	4.997	9.245133E-02	9.994	9.605667E-02	24.98	9.240335E-02	49.97	0.0973469	249.8	0.1006377
Benzene	0.5	1.012489	1	1.019346	2	1.012249	5	1.028983	10	1.048885	50	1.073407
Bromobenzene	0.5	0.6520267	1	0.6703422	2	0.6835796	5	0.6802636	10	0.6432074	50	0.6990824
Bromochloromethane	0.5	0.1277608	1	0.1425862	2	0.1375576	5	0.1356523	10	0.1427114	50	0.1492161
Tert-Amyl Methyl Ether	0.5	0.9161638	1	0.8802777	2	0.8906859	5	0.8956939	10	0.9091681	50	0.9478054
Bromodichloromethane	0.5	0.3916978	1	0.3932988	2	0.4145342	5	0.3945168	10	0.4054259	50	0.4255933
Bromoform	0.5	0.2752893	1	0.3015285	2	0.3182005	5	0.3170214	10	0.3372792	50	0.3906046
Bromomethane	0.5	0.1566235	1	0.1343555	2	0.136196	5	0.1428968	10	0.1463382	50	0.1578632
Bromofluorobenzene	30	0.8951082	35	0.8715383	40	0.8804214	50	0.847972	60	0.8349991	70	0.8438784
n-Butylbenzene	0.5	1.843014	1	2.07058	2	1.874533	5	1.8611	10	1.908563	50	2.039616
2-Butanone	1	0.2185913	2	0.211796	4	0.2139028	10	0.203933	20	0.2114883	100	0.2227151
sec-Butylbenzene	0.5	2.461807	1	2.512994	2	2.492873	5	2.460693	10	2.515377	50	2.705586
tert-Butylbenzene	0.5	1.97378	1	1.88858	2	2.002003	5	1.958609	10	1.960425	50	2.116269
Carbon disulfide	0.5	0.7028582	1	0.62755	2	0.6048156	5	0.6152078	10	0.6705723	50	0.6691913
Carbon tetrachloride	0.5	0.2963466	1	0.3115722	2	0.3214618	5	0.3327848	10	0.3487612	50	0.3656545
Chlorobenzene	0.5	1.445381	1	1.426059	2	1.429195	5	1.433918	10	1.422227	50	1.512426
Chloroethane	0.5	0.1607268	1	0.1591843	2	0.1559997	5	0.159022	10	0.1665614	50	0.1625335
Chloroform	0.5	0.5570148	1	0.5246148	2	0.5195337	5	0.5057294	10	0.5004336	50	0.5217724
2-Chloroethyl vinyl ether	0.9975	0.1792576	1.995	0.1885999	3.99	0.1889613	9.975	0.1964874	19.95	0.201442	99.75	0.2144144
Chloromethane	0.5	0.3054575	1	0.2771807	2	0.284681	5	0.2643817	10	0.3010329	50	0.3031173
1-Chlorohexane	0.5	1.003537	1	0.8934638	2	0.7790349	5	0.7227957	10	0.7002461	50	0.7353481
2-Chlorotoluene	0.5	2.104186	1	2.087544	2	2.107453	5	2.074577	10	2.041034	50	2.181487
4-Chlorotoluene	0.5	2.390102	1	2.410669	2	2.383228	5	2.380563	10	2.36417	50	2.55075
Cyclohexane	0.5	0.5181371	1	0.4928189	2	0.4986614	5	0.4805975	10	0.5031449	50	0.5024042
Dibromochloromethane	0.5	0.5118308	1	0.5404977	2	0.5669012	5	0.56378	10	0.5735861	50	0.6481355
1,2-Dibromo-3-chloropropane	0.5	0.1331146	1	0.1351693	2	0.1416032	5	0.1291551	10	0.1325067	50	0.1482053
1,2-Dibromoethane (EDB)	0.5	0.5714543	1	0.5492779	2	0.5720933	5	0.5653543	10	0.5607722	50	0.6045733
Dibromomethane	0.5	0.1880594	1	0.1957956	2	0.1943835	5	0.1922236	10	0.1936848	50	0.2017494
1,2-Dichlorobenzene	0.5	1.043062	1	1.151465	2	1.170164	5	1.124382	10	1.138074	50	1.195595

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11_14:57 9/13/11_18:30

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	1.166965	1	1.204071	2	1.201804	5	1.182671	10	1.172136	50	1.249796
1,4-Dichlorobenzene	0.5	1.206701	1	1.21887	2	1.250038	5	1.208776	10	1.190408	50	1.264017
Dichlorodifluoromethane	0.5	0.2286063	1	0.2222296	2	0.2251319	5	0.2082929	10	0.2692399	50	0.274137
1,1-Dichloroethane	0.5	0.5403927	1	0.5468138	2	0.5510232	5	0.5598113	10	0.5660451	50	0.5760678
1,2-Dichloroethane	0.5	0.5091653	1	0.5133103	2	0.535132	5	0.5264139	10	0.5289745	50	0.5375092
1,1-Dichloroethene	0.5	0.2215123	1	0.1901946	2	0.1936768	5	0.1835806	10	0.1809237	50	0.1920659
cis-1,2-Dichloroethene	0.5	0.2759689	1	0.2809375	2	0.275684	5	0.2810175	10	0.2794099	50	0.2857354
trans-1,2-Dichloroethene	0.5	0.2543393	1	0.2569625	2	0.2506923	5	0.2396904	10	0.2432336	50	0.2414877
1,2-Dichloroethene (total)	1	0.2651541	2	0.26895	4	0.2631881	10	0.2603539	20	0.2613217	100	0.2636116
1,2-Dichloropropane	0.5	0.3129687	1	0.2920712	2	0.314964	5	0.3197433	10	0.3175197	50	0.3227427
1,3-Dichloropropane	0.5	0.8999091	1	0.9157803	2	0.9604611	5	0.9358264	10	0.9264139	50	0.9791751
2,2-Dichloropropane	0.5	0.4652106	1	0.4221918	2	0.4329419	5	0.410635	10	0.4295269	50	0.4285419
1,1-Dichloropropene	0.5	0.3910023	1	0.3838045	2	0.3976261	5	0.3911952	10	0.3995013	50	0.3999589
cis-1,3-Dichloropropene	0.5	0.463611	1	0.4327107	2	0.4665514	5	0.4660316	10	0.461037	50	0.4868566
trans-1,3-Dichloropropene	0.5	1.021709	1	0.9951684	2	1.053659	5	1.046248	10	1.05344	50	1.097596
Diisopropyl Ether	0.5	1.396814	1	1.292429	2	1.347844	5	1.348943	10	1.376833	50	1.386673
Ethylbenzene	0.5	2.457479	1	2.380473	2	2.475882	5	2.469799	10	2.459088	50	2.642813
Ethyl tert-Butyl Ether	0.5	1.12008	1	1.086968	2	1.14498	5	1.122042	10	1.135052	50	1.183627
Ethyl Methacrylate	0.5	0.9186823	1	0.9131462	2	0.8967468	5	0.8920737	10	0.8816809	50	0.9623694
Hexachlorobutadiene	0.5	0.3121058	1	0.2844149	2	0.2816563	5	0.2708137	10	0.2880372	50	0.3057296
2-Hexanone	1	0.6942306	2	0.6203614	4	0.6418341	10	0.5964609	20	0.622888	100	0.682274
Iodomethane	0.5	~~0.1446611~~	1	0.1803929	2	0.192522	5	0.2261244	10	0.2506887	50	0.2997653
Isopropylbenzene	0.5	1.963069	1	2.060213	2	2.029325	5	2.043946	10	2.062737	50	2.231013
p-Isopropyltoluene	0.5	2.109424	1	2.114073	2	2.118759	5	2.091327	10	2.094262	50	2.222574
Methylene chloride	0.5	0.3300081	1	0.2647493	2	0.2436774	5	0.2293131	10	0.2281537	50	0.220352
Methyl Acetate	0.5	0.2755516	1	0.30078	2	0.2736329	5	0.2335647	10	0.2429932	50	0.2577989
Methylcyclohexane	0.5	0.3502468	1	0.3188125	2	0.3190488	5	0.3203237	10	0.3291036	50	0.3437828
Naphthalene	0.5	1.64271	1	1.535768	2	1.579974	5	1.449095	10	1.456422	50	1.575249
Methyl Methacrylate	0.5	0.4182653	1	0.3884151	2	0.4153615	5	0.3912162	10	0.4044113	50	0.412795
4-Methyl-2-pentanone	1	0.4113452	2	0.4094188	4	0.4197394	10	0.4081596	20	0.4078632	100	0.4339199
Methyl t-Butyl Ether	0.5	0.8135796	1	0.8137488	2	0.8448218	5	0.8349479	10	0.8366813	50	0.8440215

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11_14:57 9/13/11_18:30

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	3.333283	1	3.242529	2	3.29175	5	3.17809	10	3.204302	50	3.484074
Styrene	0.5	1.508159	1	1.539544	2	1.576131	5	1.56831	10	1.602108	50	1.704637
1,1,2,2-Tetrachloroethane	0.5	0.8293924	1	0.858749	2	0.8920637	5	0.8218323	10	0.836417	50	0.8977279
1,1,1,2-Tetrachloroethane	0.5	0.4799916	1	0.5001817	2	0.5138307	5	0.4987747	10	0.4942518	50	0.5434963
tert-Butyl alcohol	2.5	3.432919E-02	5	3.239695E-02	10	3.288559E-02	25	3.132331E-02	50	2.930228E-02	250	3.006676E-02
Tetrachloroethene	0.5	0.4645225	1	0.4560609	2	0.4651735	5	0.4673637	10	0.4634311	50	0.4873334
Toluene	0.5	1.284083	1	1.298892	2	1.273544	5	1.285833	10	1.28507	50	1.33459
1,2,3-Trichlorobenzene	0.5	0.5781544	1	0.558453	2	0.5361409	5	0.5203265	10	0.5193367	50	0.5660439
1,2,4-Trichlorobenzene	0.5	0.7031412	1	0.6649282	2	0.6549946	5	0.5960133	10	0.6187458	50	0.6666121
1,1,2-Trichloroethane	0.5	0.4475516	1	0.4532805	2	0.4573483	5	0.4537151	10	0.4428391	50	0.4631068
1,1,1-Trichloroethane	0.5	0.384882	1	0.4004025	2	0.4017626	5	0.4094113	10	0.4212622	50	0.4340432
Tetrahydrofuran	0.5	~~0.1687945~~	1	0.140742	2	0.1313183	5	0.107031	10	0.1043258	50	0.1114998
Trichloroethene	0.5	0.2667189	1	0.2644078	2	0.261275	5	0.2693326	10	0.2723188	50	0.2775691
Trichlorofluoromethane	0.5	0.3724328	1	0.3780669	2	0.3792874	5	0.3818739	10	0.4127502	50	0.4187662
1,2,3-Trichloropropane	0.5	0.1866801	1	0.2084578	2	0.1952223	5	0.2076396	10	0.1951678	50	0.2095557
1,3,5-Trimethylbenzene	0.5	2.181309	1	2.119397	2	2.223617	5	2.188818	10	2.208112	50	2.363758
1,2,4-Trimethylbenzene	0.5	2.319662	1	2.286779	2	2.312335	5	2.245849	10	2.252409	50	2.446174
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2027342	1	0.2091492	2	0.1975031	5	0.2032302	10	0.2082168	50	0.2139902
Vinyl chloride	0.5	0.2641456	1	0.2443262	2	0.2484517	5	0.2375925	10	0.2607173	50	0.2597799
m,p-Xylene	1	1.938364	2	1.908754	4	1.915563	10	1.946601	20	1.920622	100	2.080095
o-Xylene	0.5	2.079012	1	2.030726	2	2.050798	5	2.011347	10	1.991375	50	2.13974
Vinyl acetate	0.996	0.6982792	1.992	0.7581075	3.984	0.8172823	9.96	0.8452236	19.92	0.8650183	99.62	0.9280547
Xylenes (total)	1.5	1.985247	3	1.949411	6	1.960642	15	1.968183	30	1.944206	150	2.099977
Dibromofluoromethane	30	0.3148987	35	0.3105525	40	0.3114031	50	0.3100304	60	0.3059853	70	0.3007833
1,2-Dichloroethane-d4	30	6.594251E-02	35	6.521349E-02	40	6.623482E-02	50	6.464654E-02	60	6.459988E-02	70	6.163063E-02
Toluene-d8	30	2.002048	35	1.956807	40	1.961315	50	1.967983	60	1.928561	70	1.932351
tert-Amyl alcohol	2.5	2.793072E-02	5	2.693257E-02	10	0.0270565	25	2.558646E-02	50	2.503989E-02	250	2.764715E-02
tert-Amyl ethyl ether	0.5	0.8483539	1	0.8756671	2	0.8959255	5	0.9011762	10	0.9141912	50	0.9461658

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	0.1166755	300	0.1144909	400	0.1146763						
Acrolein	500.5	4.965607E-02	750.8	5.040645E-02	1001	5.134519E-02						
Acrylonitrile	499.7	0.1031605	749.6	0.1042654	999.4	0.1069093						
Benzene	100	1.08036	150	1.08988	200	1.106296						
Bromobenzene	100	0.7032417	150	0.6914736	200	0.7205662						
Bromochloromethane	100	0.1456423	150	0.1426195	200	0.1411766						
Tert-Amyl Methyl Ether	100	0.967278	150	0.9527552	200	0.968265						
Bromodichloromethane	100	0.4319297	150	0.4320795	200	0.4329709						
Bromoform	100	0.4135953	150	~~0.4237712~~	200	~~0.4401142~~						
Bromomethane	100	0.174302	150	0.1809963	200	0.1864307						
Bromofluorobenzene	30	0.9044906	30	0.9088533	30	0.919014						
n-Butylbenzene	100	2.079648	150	1.985056	200	2.032137						
2-Butanone	200	0.2232973	300	0.2236105	400	0.2245547						
sec-Butylbenzene	100	2.793076	150	2.709122	200	2.757884						
tert-Butylbenzene	100	2.15285	150	2.074602	200	2.135493						
Carbon disulfide	100	0.6842403	150	0.6977567	200	0.7110176						
Carbon tetrachloride	100	0.3765448	150	0.3743512	200	0.374315						
Chlorobenzene	100	1.544425	150	1.553333	200	1.607816						
Chloroethane	100	0.1683823	150	0.1647617	200	0.1655736						
Chloroform	100	0.5201437	150	0.5233394	200	0.5240376						
2-Chloroethyl vinyl ether	199.5	0.2170065	299.2	0.2147974	399	0.2153371						
Chloromethane	100	0.3119887	150	0.3103885	200	0.3221559						
1-Chlorohexane	100	0.7503567	150	0.7558635	200	0.7744302						
2-Chlorotoluene	100	2.191888	150	2.143614	200	2.183054						
4-Chlorotoluene	100	2.543333	150	2.484863	200	2.539128						
Cyclohexane	100	0.5188785	150	0.5228505	200	0.5206162						
Dibromochloromethane	100	0.6691122	150	0.6757425	200	0.7043424						
1,2-Dibromo-3-chloropropane	100	0.1585164	150	0.1538009	200	0.1581365						
1,2-Dibromoethane (EDB)	100	0.6187714	150	0.6167109	200	0.6288224						
Dibromomethane	100	0.2039875	150	0.201025	200	0.203185						
1,2-Dichlorobenzene	100	1.243658	150	1.188325	200	1.239112						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	1.282804	150	1.25716	200	1.29033						
1,4-Dichlorobenzene	100	1.289009	150	1.257396	200	1.295522						
Dichlorodifluoromethane	100	0.2718626	150	0.2754207	200	0.2759096						
1,1-Dichloroethane	100	0.5704305	150	0.5811296	200	0.5955877						
1,2-Dichloroethane	100	0.5402458	150	0.5295547	200	0.5230952						
1,1-Dichloroethene	100	0.1949912	150	0.1981413	200	0.2037595						
cis-1,2-Dichloroethene	100	0.2851411	150	0.2891809	200	0.2936416						
trans-1,2-Dichloroethene	100	0.2510613	150	0.2544983	200	0.2638378						
1,2-Dichloroethene (total)	200	0.2681012	300	0.2718396	400	0.2787397						
1,2-Dichloropropane	100	0.3243318	150	0.3239879	200	0.3236542						
1,3-Dichloropropane	100	0.9964303	150	0.9870319	200	1.017231						
2,2-Dichloropropane	100	0.4199076	150	0.4155449	200	0.413344						
1,1-Dichloropropene	100	0.409026	150	0.4056769	200	0.405036						
cis-1,3-Dichloropropene	100	0.491748	150	0.4884704	200	0.4918617						
trans-1,3-Dichloropropene	100	1.112863	150	1.102736	200	1.131884						
Diisopropyl Ether	100	1.404357	150	1.407936	200	1.431034						
Ethylbenzene	100	2.692985	150	2.735396	200	2.816156						
Ethyl tert-Butyl Ether	100	1.182907	150	1.173294	200	1.183799						
Ethyl Methacrylate	100	0.9589001	150	0.9705522	200	1.007765						
Hexachlorobutadiene	100	0.3188338	150	0.3152535	200	0.3271351						
2-Hexanone	200	0.6793857	300	0.6756797	400	0.6820493						
Iodomethane	100	0.3107297	150	0.313973	200	0.3182309						
Isopropylbenzene	100	2.23725	150	2.296142	200	2.331245						
p-Isopropyltoluene	100	2.292945	150	2.268964	200	2.306926						
Methylene chloride	100	0.2219804	150	0.2252686	200	0.2311264						
Methyl Acetate	100	0.2556234	150	0.258417	200	0.2575204						
Methylcyclohexane	100	0.3501692	150	0.3518043	200	0.3595688						
Naphthalene	100	1.686319	150	1.633381	200	1.724235						
Methyl Methacrylate	100	0.4222154	150	0.4087355	200	0.4074361						
4-Methyl-2-pentanone	200	0.4411978	300	0.429964	400	0.4288896						
Methyl t-Butyl Ether	100	0.8574469	150	0.8627605	200	0.8841276						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

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	3.462267	150	3.433123	200	3.483227						
Styrene	100	1.730752	150	1.747169	200	1.780947						
1,1,2,2-Tetrachloroethane	100	0.8977024	150	0.8702267	200	0.8893335						
1,1,1,2-Tetrachloroethane	100	0.5568762	150	0.5642541	200	0.5792642						
tert-Butyl alcohol	500	3.072704E-02	750	3.097659E-02	1000	3.113947E-02						
Tetrachloroethene	100	0.501375	150	0.5116784	200	0.5298307						
Toluene	100	1.340263	150	1.328356	200	1.36351						
1,2,3-Trichlorobenzene	100	0.597398	150	0.574394	200	0.6031484						
1,2,4-Trichlorobenzene	100	0.6918151	150	0.6707748	200	0.6960391						
1,1,2-Trichloroethane	100	0.4644598	150	0.4622911	200	0.4723133						
1,1,1-Trichloroethane	100	0.4349489	150	0.4336358	200	0.4291253						
Tetrahydrofuran	100	0.1160592	150	0.1135105	200	0.114872						
Trichloroethene	100	0.2835195	150	0.2829871	200	0.2859771						
Trichlorofluoromethane	100	0.4231154	150	0.4156056	200	0.4086547						
1,2,3-Trichloropropane	100	0.2144116	150	0.211841	200	0.213758						
1,3,5-Trimethylbenzene	100	2.393797	150	2.318602	200	2.389455						
1,2,4-Trimethylbenzene	100	2.427362	150	2.373065	200	2.417867						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2221093	150	0.2222891	200	0.2274684						
Vinyl chloride	100	0.265811	150	0.2645491	200	0.2673915						
m,p-Xylene	200	2.103691	300	2.111833	400	1.932533						
o-Xylene	100	2.163759	150	2.170816	200	2.212979						
Vinyl acetate	199.2	0.9331187	298.9	0.926519	398.5	0.9642979						
Xylenes (total)	300	2.123714	450	2.131493	600	2.026014						
Dibromofluoromethane	30	0.3180859	30	0.3156314	30	0.3166727						
1,2-Dichloroethane-d4	30	6.421959E-02	30	6.567008E-02	30	6.650076E-02						
Toluene-d8	30	1.973032	30	1.97269	30	2.05799						
tert-Amyl alcohol	500	2.874226E-02	750	2.916048E-02	1000	2.899876E-02						
tert-Amyl ethyl ether	100	0.9447038	150	0.9251066	200	0.9496329						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1205578	9.687295	3.774875	0.1224781			15	
Acrolein	4.848154E-02	6.980569	3.654778	0.1096685			15	
Acrylonitrile	9.870118E-02	5.344786	4.607222	0.1583335			15	
Benzene	1.052433	3.42443	7.641889	5.881455E-02			15	
Bromobenzene	0.6826426	3.610985	12.36811	1.539211E-02			15	
Bromochloromethane	0.140547	4.436461	6.738556	0.0432367			15	
Tert-Amyl Methyl Ether	0.9253437	3.687357	7.835556	4.824906E-02			15	
Bromodichloromethane	0.4135608	4.291761	8.622556	0.0459804			15	
Bromoform	0.336217	14.64914	11.77686	2.346656E-02			SPCC (0.1)	
Bromomethane	0.1573336	12.30692	2.825556	0.1340577			15	
Bromofluorobenzene	0.878475	3.50609	12.20544	3.205571E-02			15	
n-Butylbenzene	1.966027	4.818819	13.79511	2.510454E-02			15	
2-Butanone	0.2170988	3.310907	6.212667	8.854368E-02			15	
sec-Butylbenzene	2.601046	5.263794	13.25522	0.0168091			15	
tert-Butylbenzene	2.029179	4.594246	13.02311	3.061215E-02			15	
Carbon disulfide	0.6648011	5.956892	4.766778	8.314131E-02			15	
Carbon tetrachloride	0.3446436	8.790892	7.608889	4.578012E-02			15	
Chlorobenzene	1.486087	4.682253	11.05244	3.120293E-02			SPCC (0.3)	
Chloroethane	0.1625273	2.519463	2.959111	9.369155E-02			15	
Chloroform	0.5218466	3.013169	6.716889	6.679279E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.2018115	7.047183	8.981222	3.489983E-02			15	
Chloromethane	0.2978205	6.24167	2.244111	0.1419306			SPCC (0.1)	
1-Chlorohexane	0.790564	12.24414	11.01889	2.782658E-02			15	
2-Chlorotoluene	2.123871	2.530433	12.589	2.500628E-02			15	
4-Chlorotoluene	2.449645	3.220879	12.65133	0.0327337			15	
Cyclohexane	0.5064566	2.880723	7.539	0.0447776			15	
Dibromochloromethane	0.6059921	11.34527	10.29022	3.142678E-02			15	
1,2-Dibromo-3-chloropropane	0.1433564	8.087151	14.39778	2.960806E-02			15	
1,2-Dibromoethane (EDB)	0.5875367	5.031314	10.50033	2.392711E-02			15	
Dibromomethane	0.1971215	2.823059	8.559111	3.380959E-02			15	
1,2-Dichlorobenzene	1.165982	5.30465	13.755	2.189561E-02			15	
1,3-Dichlorobenzene	1.223082	3.895014	13.34467	1.660648E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.242304	3.039538	13.43778	3.775295E-02			15	
Dichlorodifluoromethane	0.2500923	11.25192	2.026333	0.1256169			15	
1,1-Dichloroethane	0.5652557	3.131601	5.755222	4.671026E-02			SPCC (0.1)	
1,2-Dichloroethane	0.5270445	1.994005	7.474556	5.584797E-02			15	
1,1-Dichloroethene	0.1954273	6.13466	4.236444	9.543841E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2829685	2.11867	6.464222	8.195503E-02			15	
trans-1,2-Dichloroethene	0.2506448	3.158602	5.382333	4.563419E-02			15	
1,2-Dichloroethene (total)	0.2668066	2.184513	0	0			15	
1,2-Dichloropropane	0.3168871	3.213076	8.448889	3.365111E-02			CCC (20)	
1,3-Dichloropropane	0.9575843	4.197904	10.03122	4.193362E-02			15	
2,2-Dichloropropane	0.4264272	3.853406	6.568889	6.836368E-02			15	
1,1-Dichloropropene	0.3980919	2.050297	7.488667	3.238935E-02			15	
cis-1,3-Dichloropropene	0.4720976	4.153466	9.193556	3.964417E-02			15	
trans-1,3-Dichloropropene	1.068367	4.252531	9.664889	3.211923E-02			15	
Diisopropyl Ether	1.376985	3.027222	6.130333	3.859198E-02			15	
Ethylbenzene	2.570008	5.96735	11.19822	2.864721E-02			CCC (20)	
Ethyl tert-Butyl Ether	1.148083	3.042998	6.593333	3.762048E-02			15	
Ethyl Methacrylate	0.9335463	4.599985	9.855	4.943664E-02			15	
Hexachlorobutadiene	0.3004422	6.526226	15.754	1.794061E-02			15	
2-Hexanone	0.6550182	5.36188	9.966889	2.629714E-02			15	
Iodomethane	0.2615534	21.70705	4.432875	6.469751E-02	0.9998293		0.995	
Isopropylbenzene	2.139438	6.266823	12.09589	0.0235622			15	
p-Isopropyltoluene	2.179917	4.194532	13.39289	0.0222104			15	
Methylene chloride	0.2438477	14.39367	4.722222	6.406583E-02			15	
Methyl Acetate	0.2617647	7.499968	4.592	9.512777E-02			15	
Methylcyclohexane	0.3380956	4.79907	8.773778	4.976014E-02			15	
Naphthalene	1.587017	6.01227	15.625	2.181913E-02			15	
Methyl Methacrylate	0.4076502	2.827101	8.581334	3.106002E-02			15	
4-Methyl-2-pentanone	0.4211664	3.007595	9.120111	3.050622E-02			15	
Methyl t-Butyl Ether	0.8435707	2.689572	5.389	8.041854E-02			15	
n-Propylbenzene	3.345849	3.677033	12.505	2.762268E-02			15	
Styrene	1.639751	6.170199	11.67022	2.919399E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.8659383	3.529277	12.02267	2.558354E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5256579	6.805975	11.09633	2.565078E-02			15	
tert-Butyl alcohol	0.0314608	4.850766	4.403889	0.1026763			15	
Tetrachloroethene	0.4829744	5.371503	10.39989	2.350423E-02			15	
Toluene	1.31046	2.4204	9.667	3.971049E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5614884	5.49401	15.91	2.023116E-02			15	
1,2,4-Trichlorobenzene	0.6625627	5.367651	15.47256	2.423506E-02			15	
1,1,2-Trichloroethane	0.457434	1.99802	9.819111	2.430674E-02			15	
1,1,1-Trichloroethane	0.4166082	4.36868	7.270111	0.0409493			15	
Tetrahydrofuran	0.1174198	10.55463	6.934	4.856623E-02			15	
Trichloroethene	0.2737895	3.314345	8.398667	4.706414E-02			15	
Trichlorofluoromethane	0.3989503	5.134027	3.453333	7.408229E-02			15	
1,2,3-Trichloropropane	0.2047482	4.819765	12.14944	2.556525E-02			15	
1,3,5-Trimethylbenzene	2.265207	4.514474	12.68311	1.603748E-02			15	
1,2,4-Trimethylbenzene	2.342389	3.256804	13.05489	3.544193E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2118545	4.855379	4.314	9.308264E-02			15	
Vinyl chloride	0.2569739	4.185694	2.382889	0.1508775			CCC (20)	
m,p-Xylene	1.984228	4.37884	11.31178	4.639836E-02			15	
o-Xylene	2.094506	3.792232	11.70022	2.042205E-02			15	
Vinyl acetate	0.8595446	10.39629	5.833111	4.834157E-02			15	
Xylenes (total)	2.020987	3.822958	0	0			15	
Dibromofluoromethane	0.3115604	1.783618	6.886111	4.295847E-02			15	
1,2-Dichloroethane-d4	6.496203E-02	2.269836	7.380333	3.127819E-02			15	
Toluene-d8	1.972531	1.97295	9.592889	2.660194E-02			15	
tert-Amyl alcohol	2.745498E-02	5.304562	7.098445	5.036191E-02			15	
tert-Amyl ethyl ether	0.9112137	3.795785	8.715778	3.982555E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	238.7	0.1205578	0.1438586		19.3	20
Benzene	A	100.0	103.5	1.052433	1.089445		3.5	20
Bromobenzene	A	100.0	102.3	0.6826426	0.6981386		2.3	20
Bromochloromethane	A	100.0	103.8	0.140547	0.1459249		3.8	20
Bromodichloromethane	A	100.0	96.07	0.4135608	0.3973052		-3.9	20
Bromoform	A	100.0	119.5	0.336217	0.4017654	0.1	19.5	20
Bromomethane	A	100.0	107.4	0.1573336	0.1689642		7.4	20
n-Butylbenzene	A	100.0	100.7	1.966027	1.980193		0.7	20
2-Butanone	A	200.0	216.8	0.2170988	0.2352962		8.4	20
sec-Butylbenzene	A	100.0	102.7	2.601046	2.670007		2.7	20
tert-Butylbenzene	A	100.0	102.6	2.029179	2.080978		2.6	20
Carbon disulfide	A	100.0	86.50	0.6648011	0.5750799		-13.5	20
Carbon tetrachloride	A	100.0	103.0	0.3446436	0.3551161		3.0	20
Chlorobenzene	A	100.0	104.1	1.486087	1.547167	0.3	4.1	20
Chloroethane	A	100.0	100.6	0.1625273	0.163566		0.6	20
Chloroform	A	100.0	96.42	0.5218466	0.5031581		-3.6	20
Chloromethane	A	100.0	91.11	0.2978205	0.271356	0.1	-8.9	20
2-Chlorotoluene	A	100.0	100.4	2.123871	2.132878		0.4	20
4-Chlorotoluene	A	100.0	101.4	2.449645	2.483143		1.4	20
Dibromochloromethane	A	100.0	105.9	0.6059921	0.641765		5.9	20
1,2-Dibromo-3-chloropropane	A	100.0	101.1	0.1433564	0.144953		1.1	20
1,2-Dibromoethane (EDB)	A	100.0	102.5	0.5875367	0.6020909		2.5	20
Dibromomethane	A	100.0	98.23	0.1971215	0.1936365		-1.8	20
1,2-Dichlorobenzene	A	100.0	102.4	1.165982	1.194183		2.4	20
1,3-Dichlorobenzene	A	100.0	102.5	1.223082	1.254		2.5	20
1,4-Dichlorobenzene	A	100.0	102.7	1.242304	1.276374		2.7	20
Dichlorodifluoromethane	A	100.0	84.81	0.2500923	0.2121029		-15.2	20
1,1-Dichloroethane	A	100.0	102.6	0.5652557	0.5799733	0.1	2.6	20
1,2-Dichloroethane	A	100.0	95.45	0.5270445	0.5030399		-4.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	93.81	0.1954273	0.1833252		-6.2	20
cis-1,2-Dichloroethene	A	100.0	102.4	0.2829685	0.2898771		2.4	20
trans-1,2-Dichloroethene	A	100.0	100.6	0.2506448	0.2522233		0.6	20
1,2-Dichloropropane	A	100.0	101.4	0.3168871	0.3214647		1.4	20
1,3-Dichloropropane	A	100.0	104.0	0.9575843	0.9958196		4.0	20
2,2-Dichloropropane	A	100.0	91.16	0.4264272	0.3887221		-8.8	20
1,1-Dichloropropene	A	100.0	99.48	0.3980919	0.3960073		-0.5	20
cis-1,3-Dichloropropene	A	100.0	103.2	0.4720976	0.4873506		3.2	20
trans-1,3-Dichloropropene	A	100.0	91.94	1.068367	0.9822541		-8.1	20
Ethylbenzene	A	100.0	104.6	2.570008	2.687852		4.6	20
Hexachlorobutadiene	A	100.0	96.62	0.3004422	0.2902731		-3.4	20
2-Hexanone	A	200.0	204.6	0.6550182	0.6699451		2.3	20
Isopropylbenzene	A	100.0	98.82	2.139438	2.114114		-1.2	20
p-Isopropyltoluene	A	100.0	96.99	2.179917	2.11429		-3.0	20
Methylene chloride	A	100.0	91.96	0.2438477	0.2242383		-8.0	20
Naphthalene	A	100.0	95.22	1.587017	1.511191		-4.8	20
4-Methyl-2-pentanone	A	200.0	194.9	0.4211664	0.4103278		-2.6	20
Methyl t-Butyl Ether	A	100.0	99.49	0.8435707	0.8392316		-0.5	20
n-Propylbenzene	A	100.0	101.3	3.345849	3.388558		1.3	20
Styrene	A	100.0	105.0	1.639751	1.7217		5.0	20
1,1,2,2-Tetrachloroethane	A	100.0	101.3	0.8659383	0.8774305	0.3	1.3	20
1,1,1,2-Tetrachloroethane	A	100.0	104.9	0.5256579	0.5515382		4.9	20
Tetrachloroethene	A	100.0	104.0	0.4829744	0.5024189		4.0	20
Toluene	A	100.0	103.7	1.31046	1.358779		3.7	20
1,2,3-Trichlorobenzene	A	100.0	96.37	0.5614884	0.5410968		-3.6	20
1,2,4-Trichlorobenzene	A	100.0	97.83	0.6625627	0.648166		-2.2	20
1,1,2-Trichloroethane	A	100.0	103.7	0.457434	0.4745303		3.7	20
1,1,1-Trichloroethane	A	100.0	101.8	0.4166082	0.4242727		1.8	20
Trichloroethene	A	100.0	100.7	0.2737895	0.2756099		0.7	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	97.14	0.3989503	0.3875519		-2.9	20
1,2,3-Trichloropropane	A	100.0	98.71	0.2047482	0.2021067		-1.3	20
1,3,5-Trimethylbenzene	A	100.0	105.7	2.265207	2.393336		5.7	20
1,2,4-Trimethylbenzene	A	100.0	101.2	2.342389	2.37119		1.2	20
Vinyl chloride	A	100.0	95.48	0.2569739	0.2453527		-4.5	20
m,p-Xylene	A	200.0	210.1	1.984228	2.084274		5.0	20
o-Xylene	A	100.0	102.3	2.094506	2.142908		2.3	20
Bromofluorobenzene	A	30.00	30.31	0.878475	0.8874272		1.0	20
Dibromofluoromethane	A	30.00	29.89	0.3115604	0.310461		-0.4	20
1,2-Dichloroethane-d4	A	30.00	30.23	6.496203E-02	6.545398E-02		0.8	20
Toluene-d8	A	30.00	30.47	1.972531	2.003656		1.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0928CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1I27206	Injection Date:	09/28/11
Lab Sample ID:	1I27206-CCV1	Injection Time:	08:21

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	200.6	0.1205578	0.1209521		0.3	20
Benzene	A	100.0	82.73	1.052433	0.8706378		-17.3	20
Bromobenzene	A	100.0	101.6	0.6826426	0.6934638		1.6	20
Bromochloromethane	A	100.0	91.43	0.140547	0.1285033		-8.6	20
Bromodichloromethane	A	100.0	96.69	0.4135608	0.3998611		-3.3	20
Bromoform	A	100.0	117.7	0.336217	0.3957135	0.1	17.7	20
Bromomethane	A	100.0	70.25	0.1573336	0.1105328		-29.7	20 *
n-Butylbenzene	A	100.0	109.3	1.966027	2.149222		9.3	20
2-Butanone	A	200.0	159.0	0.2170988	0.1726215		-20.5	20 *
sec-Butylbenzene	A	100.0	111.6	2.601046	2.903341		11.6	20
tert-Butylbenzene	A	100.0	109.8	2.029179	2.229214		9.9	20
Carbon disulfide	A	100.0	84.07	0.6648011	0.5588803		-15.9	20
Carbon tetrachloride	A	100.0	109.2	0.3446436	0.3762862		9.2	20
Chlorobenzene	A	100.0	96.93	1.486087	1.440509	0.3	-3.1	20
Chloroethane	A	100.0	80.83	0.1625273	0.1313675		-19.2	20
Chloroform	A	100.0	91.33	0.5218466	0.4765949		-8.7	20
Chloromethane	A	100.0	72.12	0.2978205	0.2147853	0.1	-27.9	20 *
2-Chlorotoluene	A	100.0	103.9	2.123871	2.206448		3.9	20
4-Chlorotoluene	A	100.0	107.4	2.449645	2.630449		7.4	20
Dibromochloromethane	A	100.0	105.8	0.6059921	0.6413943		5.8	20
1,2-Dibromo-3-chloropropane	A	100.0	109.3	0.1433564	0.1566634		9.3	20
1,2-Dibromoethane (EDB)	A	100.0	95.82	0.5875367	0.5629842		-4.2	20
Dibromomethane	A	100.0	90.64	0.1971215	0.1786802		-9.4	20
1,2-Dichlorobenzene	A	100.0	105.0	1.165982	1.224213		5.0	20
1,3-Dichlorobenzene	A	100.0	106.6	1.223082	1.303823		6.6	20
1,4-Dichlorobenzene	A	100.0	105.5	1.242304	1.310511		5.5	20
Dichlorodifluoromethane	A	100.0	110.1	0.2500923	0.2754014		10.1	20
1,1-Dichloroethane	A	100.0	80.01	0.5652557	0.4522846	0.1	-20.0	20
1,2-Dichloroethane	A	100.0	100.9	0.5270445	0.5317624		0.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0928CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1I27206	Injection Date:	09/28/11
Lab Sample ID:	1I27206-CCV1	Injection Time:	08:21

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	88.04	0.1954273	0.1720521		-12.0	20
cis-1,2-Dichloroethene	A	100.0	84.90	0.2829685	0.240237		-15.1	20
trans-1,2-Dichloroethene	A	100.0	74.90	0.2506448	0.1877318		-25.1	20 *
1,2-Dichloropropane	A	100.0	80.62	0.3168871	0.2554913		-19.4	20
1,3-Dichloropropane	A	100.0	91.84	0.9575843	0.8794499		-8.2	20
2,2-Dichloropropane	A	100.0	103.3	0.4264272	0.4403788		3.3	20
1,1-Dichloropropene	A	100.0	90.32	0.3980919	0.3595469		-9.7	20
cis-1,3-Dichloropropene	A	100.0	89.42	0.4720976	0.42214		-10.6	20
trans-1,3-Dichloropropene	A	100.0	94.64	1.068367	1.011125		-5.4	20
Ethylbenzene	A	100.0	98.06	2.570008	2.520243		-1.9	20
Hexachlorobutadiene	A	100.0	125.7	0.3004422	0.3777486		25.7	20 *
2-Hexanone	A	200.0	171.4	0.6550182	0.5613562		-14.3	20
Isopropylbenzene	A	100.0	104.0	2.139438	2.225446		4.0	20
p-Isopropyltoluene	A	100.0	113.5	2.179917	2.474431		13.5	20
Methylene chloride	A	100.0	75.46	0.2438477	0.1840172		-24.5	20 *
Naphthalene	A	100.0	136.0	1.587017	2.159009		36.0	20 *
4-Methyl-2-pentanone	A	200.0	162.9	0.4211664	0.3430426		-18.5	20
Methyl t-Butyl Ether	A	100.0	73.67	0.8435707	0.6214891		-26.3	20 *
n-Propylbenzene	A	100.0	105.3	3.345849	3.522267		5.3	20
Styrene	A	100.0	100.2	1.639751	1.643752		0.2	20
1,1,2,2-Tetrachloroethane	A	100.0	93.32	0.8659383	0.8080911	0.3	-6.7	20
1,1,1,2-Tetrachloroethane	A	100.0	100.7	0.5256579	0.5292357		0.7	20
Tetrachloroethene	A	100.0	101.1	0.4829744	0.4881286		1.1	20
Toluene	A	100.0	89.63	1.31046	1.174529		-10.4	20
1,2,3-Trichlorobenzene	A	100.0	133.3	0.5614884	0.7486846		33.3	20 *
1,2,4-Trichlorobenzene	A	100.0	122.8	0.6625627	0.8134687		22.8	20 *
1,1,2-Trichloroethane	A	100.0	86.66	0.457434	0.3963937		-13.3	20
1,1,1-Trichloroethane	A	100.0	103.3	0.4166082	0.4303941		3.3	20
Trichloroethene	A	100.0	92.30	0.2737895	0.2527096		-7.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0928CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1I27206	Injection Date:	09/28/11
Lab Sample ID:	1I27206-CCV1	Injection Time:	08:21

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	101.7	0.3989503	0.4058656		1.7	20
1,2,3-Trichloropropane	A	100.0	103.4	0.2047482	0.2118101		3.4	20
1,3,5-Trimethylbenzene	A	100.0	110.2	2.265207	2.497117		10.2	20
1,2,4-Trimethylbenzene	A	100.0	108.0	2.342389	2.530339		8.0	20
Vinyl chloride	A	100.0	96.82	0.2569739	0.2488011		-3.2	20
m,p-Xylene	A	200.0	201.4	1.984228	1.998598		0.7	20
o-Xylene	A	100.0	98.69	2.094506	2.067026		-1.3	20
Bromofluorobenzene	A	30.00	31.33	0.878475	0.9174008		4.4	20
Dibromofluoromethane	A	30.00	30.31	0.3115604	0.3148149		1.0	20
1,2-Dichloroethane-d4	A	30.00	28.46	6.496203E-02	6.163945E-02		-5.1	20
Toluene-d8	A	30.00	32.31	1.972531	2.124339		7.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1003CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27701	Injection Date:	10/03/11
Lab Sample ID:	1J27701-CCV1	Injection Time:	09:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	252.8	0.1205578	0.1524003		26.4	20 *
Benzene	A	100.0	82.96	1.052433	0.8731535		-17.0	20
Bromobenzene	A	100.0	105.9	0.6826426	0.7227784		5.9	20
Bromochloromethane	A	100.0	91.58	0.140547	0.1287085		-8.4	20
Bromodichloromethane	A	100.0	100.4	0.4135608	0.4153765		0.4	20
Bromoform	A	100.0	120.2	0.336217	0.4041774	0.1	20.2	20 *
Bromomethane	A	100.0	52.17	0.1573336	8.208462E-02		-47.8	20 *
n-Butylbenzene	A	100.0	112.4	1.966027	2.210431		12.4	20
2-Butanone	A	200.0	160.0	0.2170988	0.1737419		-20.0	20
sec-Butylbenzene	A	100.0	115.7	2.601046	3.008639		15.7	20
tert-Butylbenzene	A	100.0	117.2	2.029179	2.37782		17.2	20
Carbon disulfide	A	100.0	77.99	0.6648011	0.5184701		-22.0	20 *
Carbon tetrachloride	A	100.0	110.0	0.3446436	0.3790843		10.0	20
Chlorobenzene	A	100.0	98.37	1.486087	1.461809	0.3	-1.6	20
Chloroethane	A	100.0	75.37	0.1625273	0.122503		-24.6	20 *
Chloroform	A	100.0	92.80	0.5218466	0.4842897		-7.2	20
Chloromethane	A	100.0	63.38	0.2978205	0.1887712	0.1	-36.6	20 *
2-Chlorotoluene	A	100.0	107.4	2.123871	2.281995		7.4	20
4-Chlorotoluene	A	100.0	101.4	2.449645	2.482736		1.4	20
Dibromochloromethane	A	100.0	108.7	0.6059921	0.6590138		8.7	20
1,2-Dibromo-3-chloropropane	A	100.0	108.1	0.1433564	0.1549878		8.1	20
1,2-Dibromoethane (EDB)	A	100.0	97.50	0.5875367	0.5728777		-2.5	20
Dibromomethane	A	100.0	91.57	0.1971215	0.1804996		-8.4	20
1,2-Dichlorobenzene	A	100.0	108.7	1.165982	1.267029		8.7	20
1,3-Dichlorobenzene	A	100.0	106.7	1.223082	1.305488		6.7	20
1,4-Dichlorobenzene	A	100.0	105.7	1.242304	1.313587		5.7	20
Dichlorodifluoromethane	A	100.0	101.1	0.2500923	0.2528151		1.1	20
1,1-Dichloroethane	A	100.0	80.23	0.5652557	0.4535252	0.1	-19.8	20
1,2-Dichloroethane	A	100.0	102.7	0.5270445	0.5412352		2.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1003CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27701	Injection Date:	10/03/11
Lab Sample ID:	1J27701-CCV1	Injection Time:	09:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	99.90	0.1954273	0.195243		-0.09	20
cis-1,2-Dichloroethene	A	100.0	81.17	0.2829685	0.2296817		-18.8	20
trans-1,2-Dichloroethene	A	100.0	75.14	0.2506448	0.1883489		-24.9	20 *
1,2-Dichloropropane	A	100.0	84.91	0.3168871	0.2690734		-15.1	20
1,3-Dichloropropane	A	100.0	93.90	0.9575843	0.8992151		-6.1	20
2,2-Dichloropropane	A	100.0	104.0	0.4264272	0.4432872		4.0	20
1,1-Dichloropropene	A	100.0	90.92	0.3980919	0.3619609		-9.1	20
cis-1,3-Dichloropropene	A	100.0	91.74	0.4720976	0.4331196		-8.3	20
trans-1,3-Dichloropropene	A	100.0	96.79	1.068367	1.034031		-3.2	20
Ethylbenzene	A	100.0	98.87	2.570008	2.540935		-1.1	20
Hexachlorobutadiene	A	100.0	128.9	0.3004422	0.3873891		28.9	20 *
2-Hexanone	A	200.0	181.6	0.6550182	0.5946308		-9.2	20
Isopropylbenzene	A	100.0	104.1	2.139438	2.227576		4.1	20
p-Isopropyltoluene	A	100.0	119.1	2.179917	2.596177		19.1	20
Methylene chloride	A	100.0	70.89	0.2438477	0.1728712		-29.1	20 *
Naphthalene	A	100.0	138.4	1.587017	2.196658		38.4	20 *
4-Methyl-2-pentanone	A	200.0	158.0	0.4211664	0.3326645		-21.0	20 *
Methyl t-Butyl Ether	A	100.0	78.53	0.8435707	0.6624981		-21.5	20 *
n-Propylbenzene	A	100.0	109.0	3.345849	3.646871		9.0	20
Styrene	A	100.0	98.20	1.639751	1.6102		-1.8	20
1,1,2,2-Tetrachloroethane	A	100.0	95.58	0.8659383	0.8276969	0.3	-4.4	20
1,1,1,2-Tetrachloroethane	A	100.0	105.1	0.5256579	0.5524078		5.1	20
Tetrachloroethene	A	100.0	99.78	0.4829744	0.4819263		-0.2	20
Toluene	A	100.0	90.22	1.31046	1.18231		-9.8	20
1,2,3-Trichlorobenzene	A	100.0	136.1	0.5614884	0.7640552		36.1	20 *
1,2,4-Trichlorobenzene	A	100.0	128.4	0.6625627	0.8506197		28.4	20 *
1,1,2-Trichloroethane	A	100.0	88.57	0.457434	0.4051428		-11.4	20
1,1,1-Trichloroethane	A	100.0	104.6	0.4166082	0.4358797		4.6	20
Trichloroethene	A	100.0	96.16	0.2737895	0.2632712		-3.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1003CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27701	Injection Date:	10/03/11
Lab Sample ID:	1J27701-CCV1	Injection Time:	09:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	98.14	0.3989503	0.3915427		-1.9	20
1,2,3-Trichloropropane	A	100.0	101.8	0.2047482	0.2085182		1.8	20
1,3,5-Trimethylbenzene	A	100.0	112.5	2.265207	2.549301		12.5	20
1,2,4-Trimethylbenzene	A	100.0	111.9	2.342389	2.620626		11.9	20
Vinyl chloride	A	100.0	91.48	0.2569739	0.2350825		-8.5	20
m,p-Xylene	A	200.0	202.6	1.984228	2.010292		1.3	20
o-Xylene	A	100.0	97.47	2.094506	2.041512		-2.5	20
Bromofluorobenzene	A	30.00	32.43	0.878475	0.949631		8.1	20
Dibromofluoromethane	A	30.00	30.24	0.3115604	0.3140274		0.8	20
1,2-Dichloroethane-d4	A	30.00	28.25	6.496203E-02	6.117883E-02		-5.8	20
Toluene-d8	A	30.00	32.70	1.972531	2.149777		9.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1004CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27803	Injection Date:	10/04/11
Lab Sample ID:	1J27803-CCV1	Injection Time:	10:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	300.5	0.1205578	0.1811617		50.3	20 *
Benzene	A	100.0	86.48	1.052433	0.9101516		-13.5	20
Bromobenzene	A	100.0	105.8	0.6826426	0.7224752		5.8	20
Bromochloromethane	A	100.0	96.35	0.140547	0.1354149		-3.7	20
Bromodichloromethane	A	100.0	99.77	0.4135608	0.4126097		-0.2	20
Bromoform	A	100.0	119.0	0.336217	0.4000265	0.1	19.0	20
Bromomethane	A	100.0	51.68	0.1573336	8.131193E-02		-48.3	20 *
n-Butylbenzene	A	100.0	119.2	1.966027	2.343291		19.2	20
2-Butanone	A	200.0	177.8	0.2170988	0.1929586		-11.1	20
sec-Butylbenzene	A	100.0	117.1	2.601046	3.045063		17.1	20
tert-Butylbenzene	A	100.0	120.0	2.029179	2.434778		20.0	20
Carbon disulfide	A	100.0	101.2	0.6648011	0.6727032		1.2	20
Carbon tetrachloride	A	100.0	110.1	0.3446436	0.3794219		10.1	20
Chlorobenzene	A	100.0	101.0	1.486087	1.501655	0.3	1.0	20
Chloroethane	A	100.0	89.49	0.1625273	0.1454524		-10.5	20
Chloroform	A	100.0	95.03	0.5218466	0.4959086		-5.0	20
Chloromethane	A	100.0	69.56	0.2978205	0.2071506	0.1	-30.4	20 *
2-Chlorotoluene	A	100.0	109.9	2.123871	2.333428		9.9	20
4-Chlorotoluene	A	100.0	110.7	2.449645	2.711324		10.7	20
Dibromochloromethane	A	100.0	110.1	0.6059921	0.6673751		10.1	20
1,2-Dibromo-3-chloropropane	A	100.0	110.0	0.1433564	0.1576497		10.0	20
1,2-Dibromoethane (EDB)	A	100.0	98.78	0.5875367	0.5803578		-1.2	20
Dibromomethane	A	100.0	92.72	0.1971215	0.1827618		-7.3	20
1,2-Dichlorobenzene	A	100.0	110.5	1.165982	1.288683		10.5	20
1,3-Dichlorobenzene	A	100.0	109.4	1.223082	1.338498		9.4	20
1,4-Dichlorobenzene	A	100.0	109.0	1.242304	1.354642		9.0	20
Dichlorodifluoromethane	A	100.0	113.5	0.2500923	0.2838729		13.5	20
1,1-Dichloroethane	A	100.0	88.61	0.5652557	0.5008617	0.1	-11.4	20
1,2-Dichloroethane	A	100.0	102.8	0.5270445	0.5419709		2.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1004CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27803	Injection Date:	10/04/11
Lab Sample ID:	1J27803-CCV1	Injection Time:	10:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	100.4	0.1954273	0.1961856		0.4	20
cis-1,2-Dichloroethene	A	100.0	88.85	0.2829685	0.2514179		-11.1	20
trans-1,2-Dichloroethene	A	100.0	85.90	0.2506448	0.2153134		-14.1	20
1,2-Dichloropropane	A	100.0	86.71	0.3168871	0.2747658		-13.3	20
1,3-Dichloropropane	A	100.0	93.78	0.9575843	0.8980003		-6.2	20
2,2-Dichloropropane	A	100.0	107.5	0.4264272	0.4583287		7.5	20
1,1-Dichloropropene	A	100.0	92.83	0.3980919	0.369542		-7.2	20
cis-1,3-Dichloropropene	A	100.0	93.28	0.4720976	0.440372		-6.7	20
trans-1,3-Dichloropropene	A	100.0	99.07	1.068367	1.058392		-0.9	20
Ethylbenzene	A	100.0	100.5	2.570008	2.583597		0.5	20
Hexachlorobutadiene	A	100.0	156.3	0.3004422	0.4696106		56.3	20 *
2-Hexanone	A	200.0	196.1	0.6550182	0.642303		-1.9	20
Isopropylbenzene	A	100.0	106.8	2.139438	2.284783		6.8	20
p-Isopropyltoluene	A	100.0	121.2	2.179917	2.641255		21.2	20 *
Methylene chloride	A	100.0	89.95	0.2438477	0.2193411		-10.0	20
Naphthalene	A	100.0	139.5	1.587017	2.214582		39.5	20 *
4-Methyl-2-pentanone	A	200.0	162.6	0.4211664	0.3424051		-18.7	20
Methyl t-Butyl Ether	A	100.0	85.36	0.8435707	0.7200617		-14.6	20
n-Propylbenzene	A	100.0	109.4	3.345849	3.659237		9.4	20
Styrene	A	100.0	101.0	1.639751	1.656052		1.0	20
1,1,2,2-Tetrachloroethane	A	100.0	96.57	0.8659383	0.8362354	0.3	-3.4	20
1,1,1,2-Tetrachloroethane	A	100.0	105.7	0.5256579	0.555666		5.7	20
Tetrachloroethene	A	100.0	102.2	0.4829744	0.4938839		2.3	20
Toluene	A	100.0	95.74	1.31046	1.254681		-4.3	20
1,2,3-Trichlorobenzene	A	100.0	142.6	0.5614884	0.8006553		42.6	20 *
1,2,4-Trichlorobenzene	A	100.0	132.8	0.6625627	0.8800417		32.8	20 *
1,1,2-Trichloroethane	A	100.0	90.19	0.457434	0.4125602		-9.8	20
1,1,1-Trichloroethane	A	100.0	104.2	0.4166082	0.434134		4.2	20
Trichloroethene	A	100.0	97.70	0.2737895	0.2675057		-2.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1004CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27803	Injection Date:	10/04/11
Lab Sample ID:	1J27803-CCV1	Injection Time:	10:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	105.5	0.3989503	0.4209755		5.5	20
1,2,3-Trichloropropane	A	100.0	100.2	0.2047482	0.2051203		0.2	20
1,3,5-Trimethylbenzene	A	100.0	114.2	2.265207	2.586117		14.2	20
1,2,4-Trimethylbenzene	A	100.0	114.7	2.342389	2.687397		14.7	20
Vinyl chloride	A	100.0	105.4	0.2569739	0.2707451		5.4	20
m,p-Xylene	A	200.0	208.1	1.984228	2.064461		4.0	20
o-Xylene	A	100.0	98.30	2.094506	2.058941		-1.7	20
Bromofluorobenzene	A	30.00	31.61	0.878475	0.9255395		5.4	20
Dibromofluoromethane	A	30.00	30.69	0.3115604	0.3187008		2.3	20
1,2-Dichloroethane-d4	A	30.00	28.86	6.496203E-02	6.248441E-02		-3.8	20
Toluene-d8	A	30.00	33.00	1.972531	2.17013		10.0	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1I28018-BLK1 File ID: 0928BLK1.D

Sampled: Prepared: Analyzed: 09/28/11 10:06

Solids: Preparation: 5030B Dilution:

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 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	Q, 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	Y, 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	Y, 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	0.439	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1I28018-BLK1 File ID: 0928BLK1.D

Sampled: Prepared: Analyzed: 09/28/11 10:06

Solids: Preparation: 5030B Dilution:

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 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	1.00	X, 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	Y, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, 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
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.71	102	75 - 120	
Dibromofluoromethane	30.00	31.49	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.38	97.9	70 - 120	
Toluene-d8	30.00	32.06	107	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1I28018-BS1 File ID: 0928LCS1.D

Sampled: Prepared: Analyzed: 09/28/11 08:48

Solids: Preparation: 5030B Dilution:

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	81.1	2.50	5.00	10.0	
71-43-2	Benzene	39.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	47.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	44.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	42.8	0.250	0.500	1.00	
75-25-2	Bromoform	52.0	0.250	0.500	1.00	
74-83-9	Bromomethane	36.9	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.5	0.250	0.500	1.00	
78-93-3	2-Butanone	67.9	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	51.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.9	0.250	0.500	1.00	
75-15-0	Carbon disulfide	37.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	45.5	0.250	0.500	1.00	
75-00-3	Chloroethane	45.0	0.500	1.00	2.00	
67-66-3	Chloroform	43.5	0.250	0.500	1.00	
74-87-3	Chloromethane	39.7	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	49.2	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	49.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	45.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	42.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	51.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	40.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	46.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	44.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	41.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	37.6	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	38.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	43.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.7	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	42.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	43.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	40.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	45.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	62.7	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1I28018-BS1
File ID: 0928LCS1.D
Sampled:
Prepared:
Analyzed: 09/28/11 08:48
Solids:
Preparation: 5030B
Dilution:
Batch: 1I28018
Sequence: 1I27206
Calibration: 1258002
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	74.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	46.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	50.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	39.7	0.500	1.00	2.00	Y
91-20-3	Naphthalene	62.7	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	74.2	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	37.5	0.250	0.500	1.00	Y
103-65-1	n-Propylbenzene	48.8	0.250	0.500	1.00	
100-42-5	Styrene	45.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	46.3	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	47.8	0.250	0.500	1.00	
108-88-3	Toluene	42.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	63.6	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	58.9	0.250	0.500	1.00	X
79-00-5	1,1,2-Trichloroethane	42.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	44.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	48.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	95.3	0.500	1.00	2.00	
95-47-6	o-Xylene	46.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.52	105	75 - 120	
Dibromofluoromethane	30.00	29.70	99.0	85 - 115	
1,2-Dichloroethane-d4	30.00	29.27	97.6	70 - 120	
Toluene-d8	30.00	32.39	108	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1I28018-BSD1 File ID: 0928LCD1.D

Sampled: Prepared: Analyzed: 09/28/11 19:31

Solids: Preparation: 5030B Dilution:

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	79.8	2.50	5.00	10.0	
71-43-2	Benzene	41.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	46.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	43.8	0.250	0.500	1.00	
75-25-2	Bromoform	51.1	0.250	0.500	1.00	
74-83-9	Bromomethane	33.0	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.5	0.250	0.500	1.00	
78-93-3	2-Butanone	72.2	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	52.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	35.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	47.8	0.250	0.500	1.00	
75-00-3	Chloroethane	46.0	0.500	1.00	2.00	
67-66-3	Chloroform	44.9	0.250	0.500	1.00	
74-87-3	Chloromethane	41.9	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	48.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	47.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	43.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.5	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	42.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	47.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	43.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	43.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	40.5	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	40.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	43.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	43.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	44.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	40.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	47.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	55.4	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1I28018-BSD1 File ID: 0928LCD1.D

Sampled: Prepared: Analyzed: 09/28/11 19:31

Solids: Preparation: 5030B Dilution:

Batch: 1I28018 Sequence: 1I27206 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	78.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	46.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	40.3	0.500	1.00	2.00	Y
91-20-3	Naphthalene	65.0	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	79.0	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	41.1	0.250	0.500	1.00	Y
103-65-1	n-Propylbenzene	49.4	0.250	0.500	1.00	
100-42-5	Styrene	47.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	44.3	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	47.9	0.250	0.500	1.00	
108-88-3	Toluene	44.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	64.1	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	57.8	0.250	0.500	1.00	X
79-00-5	1,1,2-Trichloroethane	44.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	44.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	52.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	97.9	0.500	1.00	2.00	
95-47-6	o-Xylene	46.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.81	103	75 - 120	
Dibromofluoromethane	30.00	30.72	102	85 - 115	
1,2-Dichloroethane-d4	30.00	28.78	95.9	70 - 120	
Toluene-d8	30.00	32.34	108	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03011-BLK1 File ID: 1003BLK1.D

Sampled: Prepared: Analyzed: 10/03/11 11:52

Solids: Preparation: 5030B Dilution:

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03011-BLK1 File ID: 1003BLK1.D

Sampled: Prepared: Analyzed: 10/03/11 11:52

Solids: Preparation: 5030B Dilution:

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 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	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, 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
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.32	101	75 - 120	
Dibromofluoromethane	30.00	31.32	104	85 - 115	
1,2-Dichloroethane-d4	30.00	29.26	97.5	70 - 120	
Toluene-d8	30.00	31.76	106	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03011-BS1 File ID: 1003LCS1.D

Sampled: Prepared: Analyzed: 10/03/11 10:34

Solids: Preparation: 5030B Dilution:

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	82.3	2.50	5.00	10.0	X
71-43-2	Benzene	41.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	46.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	45.9	0.250	0.500	1.00	
75-25-2	Bromoform	54.1	0.250	0.500	1.00	X
74-83-9	Bromomethane	25.6	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	53.9	0.250	0.500	1.00	
78-93-3	2-Butanone	71.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	38.1	0.250	0.500	1.00	Y
56-23-5	Carbon tetrachloride	53.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	47.9	0.250	0.500	1.00	
75-00-3	Chloroethane	47.9	0.500	1.00	2.00	Y
67-66-3	Chloroform	46.5	0.250	0.500	1.00	
74-87-3	Chloromethane	37.1	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	51.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	49.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.6	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	44.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	51.5	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	44.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	43.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	43.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	40.1	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	41.9	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	50.9	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	46.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	42.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	46.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	65.4	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1J03011-BS1
File ID: 1003LCS1.D
Sampled:
Prepared:
Analyzed: 10/03/11 10:34
Solids:
Preparation: 5030B
Dilution:
Batch: 1J03011
Sequence: 1J27701
Calibration: 1258002
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	77.0	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	46.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	41.5	0.500	1.00	2.00	Y
91-20-3	Naphthalene	66.7	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	78.5	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	41.6	0.250	0.500	1.00	Y
103-65-1	n-Propylbenzene	50.0	0.250	0.500	1.00	
100-42-5	Styrene	46.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	50.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	47.6	0.250	0.500	1.00	
108-88-3	Toluene	45.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	68.5	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	62.4	0.250	0.500	1.00	X
79-00-5	1,1,2-Trichloroethane	44.2	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	46.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	48.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	98.4	0.500	1.00	2.00	
95-47-6	o-Xylene	46.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.37	105	75 - 120	
Dibromofluoromethane	30.00	30.45	101	85 - 115	
1,2-Dichloroethane-d4	30.00	29.47	98.2	70 - 120	
Toluene-d8	30.00	32.56	109	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03011-BSD1 File ID: 1003LCD1.D

Sampled: Prepared: Analyzed: 10/03/11 21:39

Solids: Preparation: 5030B Dilution:

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	76.1	2.50	5.00	10.0	X
71-43-2	Benzene	40.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	47.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	44.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	45.5	0.250	0.500	1.00	
75-25-2	Bromoform	50.4	0.250	0.500	1.00	X
74-83-9	Bromomethane	13.6	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.3	0.250	0.500	1.00	
78-93-3	2-Butanone	69.3	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	33.5	0.250	0.500	1.00	Y
56-23-5	Carbon tetrachloride	49.8	0.250	0.500	1.00	
108-90-7	Chlorobenzene	45.8	0.250	0.500	1.00	
75-00-3	Chloroethane	40.3	0.500	1.00	2.00	Y
67-66-3	Chloroform	46.1	0.250	0.500	1.00	
74-87-3	Chloromethane	30.1	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	50.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	50.9	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	46.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	45.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	44.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	41.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	38.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	42.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	35.0	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	41.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	43.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	42.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	42.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	39.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	46.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.5	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03011-BSD1 File ID: 1003LCD1.D

Sampled: Prepared: Analyzed: 10/03/11 21:39

Solids: Preparation: 5030B Dilution:

Batch: 1J03011 Sequence: 1J27701 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	75.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	50.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	37.3	0.500	1.00	2.00	Y
91-20-3	Naphthalene	62.5	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	79.9	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	36.1	0.250	0.500	1.00	Y
103-65-1	n-Propylbenzene	48.9	0.250	0.500	1.00	
100-42-5	Styrene	47.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	46.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	44.4	0.250	0.500	1.00	
108-88-3	Toluene	43.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	63.0	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	57.6	0.250	0.500	1.00	X
79-00-5	1,1,2-Trichloroethane	42.5	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	46.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	48.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	46.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	96.9	0.500	1.00	2.00	
95-47-6	o-Xylene	47.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.38	108	75 - 120	
Dibromofluoromethane	30.00	30.80	103	85 - 115	
1,2-Dichloroethane-d4	30.00	28.01	93.4	70 - 120	
Toluene-d8	30.00	31.52	105	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J04013-BLK1 File ID: 1004BLK1.D

Sampled: Prepared: Analyzed: 10/04/11 12:36

Solids: Preparation: 5030B Dilution:

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.385	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J04013-BLK1 File ID: 1004BLK1.D

Sampled: Prepared: Analyzed: 10/04/11 12:36

Solids: Preparation: 5030B Dilution:

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 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	X, U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, 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
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.85	103	75 - 120	
Dibromofluoromethane	30.00	31.42	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.66	98.9	70 - 120	
Toluene-d8	30.00	32.44	108	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J04013-BS1 File ID: 1004LCS1.D

Sampled: Prepared: Analyzed: 10/04/11 11:18

Solids: Preparation: 5030B Dilution:

Batch: 1J04013 Sequence: 1J27803 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	78.8	2.50	5.00	10.0	X
71-43-2	Benzene	41.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	45.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	44.3	0.250	0.500	1.00	
75-25-2	Bromoform	54.7	0.250	0.500	1.00	
74-83-9	Bromomethane	19.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	54.0	0.250	0.500	1.00	
78-93-3	2-Butanone	68.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	53.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	38.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	47.0	0.250	0.500	1.00	
75-00-3	Chloroethane	46.5	0.500	1.00	2.00	
67-66-3	Chloroform	45.3	0.250	0.500	1.00	
74-87-3	Chloromethane	32.1	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	52.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	49.1	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	46.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	43.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	43.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	48.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	43.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	42.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	39.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	40.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.1	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	42.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	44.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	41.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	47.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	65.1	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1J04013-BS1
File ID: 1004LCS1.D
Sampled:
Prepared:
Analyzed: 10/04/11 11:18
Solids:
Preparation: 5030B
Dilution:
Batch: 1J04013
Sequence: 1J27803
Calibration: 1258002
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	74.2	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	48.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.3	0.250	0.500	1.00	X
75-09-2	Methylene chloride	41.6	0.500	1.00	2.00	
91-20-3	Naphthalene	65.7	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	75.2	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	39.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.2	0.250	0.500	1.00	
100-42-5	Styrene	48.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.2	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	47.4	0.250	0.500	1.00	
108-88-3	Toluene	45.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	67.2	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	61.7	0.250	0.500	1.00	X
79-00-5	1,1,2-Trichloroethane	44.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	45.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.8	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	96.5	0.500	1.00	2.00	
95-47-6	o-Xylene	49.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.67	106	75 - 120	
Dibromofluoromethane	30.00	30.16	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.54	95.1	70 - 120	
Toluene-d8	30.00	32.35	108	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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
GW0134	09/20/11 12:59	09/21/11 08:30	09/28/11 00:00	N/A	14.00	09/28/11 18:11	8.18	14.00	
GW0135	09/20/11 12:59	09/21/11 08:30	09/28/11 00:00	N/A	14.00	09/28/11 18:38	8.19	14.00	
GW0138	09/19/11 11:37	09/21/11 08:30	09/28/11 00:00	N/A	14.00	09/28/11 19:05	9.27	14.00	
GW8113-TB	09/20/11 08:00	09/21/11 08:30	09/28/11 00:00	N/A	14.00	09/28/11 10:33	8.06	14.00	
GW0139	09/28/11 15:28	09/30/11 08:15	10/04/11 00:00	N/A	14.00	10/04/11 17:57	6.06	14.00	
GW0189	09/28/11 10:49	09/30/11 08:15	10/04/11 00:00	N/A	14.00	10/04/11 18:23	6.27	14.00	
GW0210	09/29/11 10:36	09/30/11 08:15	10/04/11 00:00	N/A	14.00	10/04/11 18:50	5.30	14.00	
GW8114-TB	09/28/11 08:00	09/30/11 08:15	10/03/11 00:00	N/A	14.00	10/03/11 12:19	5.14	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01	File ID:	0916401D.D
Sampled:	09/20/11 12:59	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 00:03
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1I22002 Sequence: 1J28614 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		6.01	12.0	24.0	U
208-96-8	Acenaphthylene		6.01	12.0	24.0	U
98-86-2	Acetophenone	306	6.01	12.0	24.0	D
120-12-7	Anthracene		6.01	12.0	24.0	U
1912-24-9	Atrazine		6.01	12.0	24.0	U
100-52-7	Benzaldehyde		6.01	12.0	24.0	U
92-87-5	Benzidine		60.1	120	240	U
56-55-3	Benzo(a)anthracene		6.01	12.0	24.0	U
50-32-8	Benzo(a)pyrene		6.01	12.0	24.0	U
205-99-2	Benzo(b)fluoranthene		6.01	12.0	24.0	U
191-24-2	Benzo(g,h,i)perylene		6.01	12.0	24.0	U
65-85-0	Benzoic acid		60.1	120	240	U
207-08-9	Benzo(k)fluoranthene		6.01	12.0	24.0	U
92-52-4	1,1-Biphenyl	38.2	6.01	12.0	24.0	D
101-55-3	4-Bromophenyl-phenylether		6.01	12.0	24.0	U
85-68-7	Butylbenzylphthalate		6.01	12.0	24.0	U
105-60-2	Caprolactam		6.01	12.0	24.0	Q, U
86-74-8	Carbazole		6.01	12.0	24.0	U
59-50-7	4-Chloro-3-methylphenol		6.01	12.0	24.0	U
106-47-8	4-Chloroaniline		6.01	12.0	24.0	U
111-91-1	Bis(2-chloroethoxy)methane		6.01	12.0	24.0	U
111-44-4	Bis(2-chloroethyl)ether		6.01	12.0	24.0	U
108-60-1	2,2'-Oxybis-1-chloropropane		6.01	12.0	24.0	Y, U
91-58-7	2-Chloronaphthalene		6.01	12.0	24.0	U
95-57-8	2-Chlorophenol		6.01	12.0	24.0	U
7005-72-3	4-Chlorophenyl phenyl ether		6.01	12.0	24.0	U
218-01-9	Chrysene		6.01	12.0	24.0	U
53-70-3	Dibenz(a,h)anthracene		6.01	12.0	24.0	U
132-64-9	Dibenzofuran		6.01	12.0	24.0	U
84-74-2	Di-n-butylphthalate		6.01	12.0	24.0	U
91-94-1	3,3'-Dichlorobenzidine		6.01	12.0	24.0	U
120-83-2	2,4-Dichlorophenol		6.01	12.0	24.0	U
84-66-2	Diethylphthalate		6.01	12.0	24.0	U
105-67-9	2,4-Dimethylphenol	172	24.0	48.1	96.2	D
131-11-3	Dimethyl phthalate		6.01	12.0	24.0	U
534-52-1	4,6-Dinitro-2-methylphenol		24.0	48.1	96.2	U
51-28-5	2,4-Dinitrophenol		60.1	120	240	X, U
121-14-2	2,4-Dinitrotoluene		6.01	12.0	24.0	U
606-20-2	2,6-Dinitrotoluene		6.01	12.0	24.0	U
117-84-0	Di-n-octylphthalate		6.01	12.0	24.0	U

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01	File ID:	0916401D.D
Sampled:	09/20/11 12:59	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 00:03
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1I22002 Sequence: 1J28614 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		6.01	12.0	24.0	U
117-81-7	Bis(2-ethylhexyl)phthalate		6.01	12.0	24.0	U
206-44-0	Fluoranthene		6.01	12.0	24.0	U
86-73-7	Fluorene		6.01	12.0	24.0	U
118-74-1	Hexachlorobenzene		6.01	12.0	24.0	U
87-68-3	Hexachlorobutadiene		6.01	12.0	24.0	U
77-47-4	Hexachlorocyclopentadiene		6.01	12.0	24.0	U
67-72-1	Hexachloroethane		6.01	12.0	24.0	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		6.01	12.0	24.0	U
78-59-1	Isophorone		6.01	12.0	24.0	U
90-12-0	1-Methylnaphthalene	115	6.01	12.0	24.0	D
91-57-6	2-Methylnaphthalene	97.9	6.01	12.0	24.0	D
95-48-7	2-Methylphenol	261	6.01	12.0	24.0	D
108-39-4/106	3-Methylphenol/4-Methylphenol	163	6.01	12.0	24.0	D
100-01-6	4-Nitroaniline		24.0	48.1	96.2	U
99-09-2	3-Nitroaniline		24.0	48.1	96.2	U
88-74-4	2-Nitroaniline		24.0	48.1	96.2	U
98-95-3	Nitrobenzene		6.01	12.0	24.0	U
100-02-7	4-Nitrophenol		24.0	48.1	96.2	U
88-75-5	2-Nitrophenol		6.01	12.0	24.0	U
86-30-6	N-Nitrosodiphenylamine		6.01	12.0	24.0	U
621-64-7	N-Nitroso-di-n-propylamine		6.01	12.0	24.0	U
87-86-5	Pentachlorophenol		24.0	48.1	96.2	U
85-01-8	Phenanthrene		6.01	12.0	24.0	U
108-95-2	Phenol	72.8	6.01	12.0	24.0	D
129-00-0	Pyrene		6.01	12.0	24.0	U
88-06-2	2,4,6-Trichlorophenol		6.01	12.0	24.0	U
95-95-4	2,4,5-Trichlorophenol		6.01	12.0	24.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	29.80	62.0	50 - 110	
2-Fluorophenol	96.15	23.65	24.6	20 - 110	
Nitrobenzene-d5	48.08	42.50	88.4	40 - 110	
Phenol-d6	96.15	25.32	26.3	0 - 110	
Terphenyl-d14	48.08	52.21	109	50 - 135	
2,4,6-Tribromophenol	96.15	54.42	56.6	40 - 125	

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03	File ID:	0916403D.D
Sampled:	09/20/11 12:59	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 00:43
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1I22002 Sequence: 1J28614 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		5.90	11.8	23.6	U
208-96-8	Acenaphthylene		5.90	11.8	23.6	U
98-86-2	Acetophenone	309	5.90	11.8	23.6	D
120-12-7	Anthracene		5.90	11.8	23.6	U
1912-24-9	Atrazine		5.90	11.8	23.6	U
100-52-7	Benzaldehyde		5.90	11.8	23.6	U
92-87-5	Benzidine		59.0	118	236	U
56-55-3	Benzo(a)anthracene		5.90	11.8	23.6	U
50-32-8	Benzo(a)pyrene		5.90	11.8	23.6	U
205-99-2	Benzo(b)fluoranthene		5.90	11.8	23.6	U
191-24-2	Benzo(g,h,i)perylene		5.90	11.8	23.6	U
65-85-0	Benzoic acid		59.0	118	236	U
207-08-9	Benzo(k)fluoranthene		5.90	11.8	23.6	U
92-52-4	1,1-Biphenyl	43.9	5.90	11.8	23.6	D
101-55-3	4-Bromophenyl-phenylether		5.90	11.8	23.6	U
85-68-7	Butylbenzylphthalate		5.90	11.8	23.6	U
105-60-2	Caprolactam		5.90	11.8	23.6	Q, U
86-74-8	Carbazole		5.90	11.8	23.6	U
59-50-7	4-Chloro-3-methylphenol		5.90	11.8	23.6	U
106-47-8	4-Chloroaniline		5.90	11.8	23.6	U
111-91-1	Bis(2-chloroethoxy)methane		5.90	11.8	23.6	U
111-44-4	Bis(2-chloroethyl)ether		5.90	11.8	23.6	U
108-60-1	2,2'-Oxybis-1-chloropropane		5.90	11.8	23.6	Y, U
91-58-7	2-Chloronaphthalene		5.90	11.8	23.6	U
95-57-8	2-Chlorophenol		5.90	11.8	23.6	U
7005-72-3	4-Chlorophenyl phenyl ether		5.90	11.8	23.6	U
218-01-9	Chrysene		5.90	11.8	23.6	U
53-70-3	Dibenz(a,h)anthracene		5.90	11.8	23.6	U
132-64-9	Dibenzofuran		5.90	11.8	23.6	U
84-74-2	Di-n-butylphthalate		5.90	11.8	23.6	U
91-94-1	3,3'-Dichlorobenzidine		5.90	11.8	23.6	U
120-83-2	2,4-Dichlorophenol		5.90	11.8	23.6	U
84-66-2	Diethylphthalate		5.90	11.8	23.6	U
105-67-9	2,4-Dimethylphenol		23.6	47.2	94.3	U
131-11-3	Dimethyl phthalate		5.90	11.8	23.6	U
534-52-1	4,6-Dinitro-2-methylphenol		23.6	47.2	94.3	U
51-28-5	2,4-Dinitrophenol		59.0	118	236	X, U
121-14-2	2,4-Dinitrotoluene		5.90	11.8	23.6	U
606-20-2	2,6-Dinitrotoluene		5.90	11.8	23.6	U
117-84-0	Di-n-octylphthalate		5.90	11.8	23.6	U

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03	File ID:	0916403D.D
Sampled:	09/20/11 12:59	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 00:43
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1I22002 Sequence: 1J28614 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		5.90	11.8	23.6	U
117-81-7	Bis(2-ethylhexyl)phthalate		5.90	11.8	23.6	U
206-44-0	Fluoranthene		5.90	11.8	23.6	U
86-73-7	Fluorene		5.90	11.8	23.6	U
118-74-1	Hexachlorobenzene		5.90	11.8	23.6	U
87-68-3	Hexachlorobutadiene		5.90	11.8	23.6	U
77-47-4	Hexachlorocyclopentadiene		5.90	11.8	23.6	U
67-72-1	Hexachloroethane		5.90	11.8	23.6	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		5.90	11.8	23.6	U
78-59-1	Isophorone		5.90	11.8	23.6	U
90-12-0	1-Methylnaphthalene	123	5.90	11.8	23.6	D
91-57-6	2-Methylnaphthalene	107	5.90	11.8	23.6	D
95-48-7	2-Methylphenol	265	5.90	11.8	23.6	D
108-39-4/106	3-Methylphenol/4-Methylphenol	163	5.90	11.8	23.6	D
100-01-6	4-Nitroaniline		23.6	47.2	94.3	U
99-09-2	3-Nitroaniline		23.6	47.2	94.3	U
88-74-4	2-Nitroaniline		23.6	47.2	94.3	U
98-95-3	Nitrobenzene		5.90	11.8	23.6	U
100-02-7	4-Nitrophenol		23.6	47.2	94.3	U
88-75-5	2-Nitrophenol		5.90	11.8	23.6	U
86-30-6	N-Nitrosodiphenylamine		5.90	11.8	23.6	U
621-64-7	N-Nitroso-di-n-propylamine		5.90	11.8	23.6	U
87-86-5	Pentachlorophenol		23.6	47.2	94.3	U
85-01-8	Phenanthrene		5.90	11.8	23.6	U
108-95-2	Phenol	77.8	5.90	11.8	23.6	D
129-00-0	Pyrene		5.90	11.8	23.6	U
88-06-2	2,4,6-Trichlorophenol		5.90	11.8	23.6	U
95-95-4	2,4,5-Trichlorophenol		5.90	11.8	23.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	32.71	69.4	50 - 110	
2-Fluorophenol	94.34	24.95	26.4	20 - 110	
Nitrobenzene-d5	47.17	39.22	83.1	40 - 110	
Phenol-d6	94.34	26.93	28.5	0 - 110	
Terphenyl-d14	47.17	52.80	112	50 - 135	
2,4,6-Tribromophenol	94.34	55.29	58.6	40 - 125	

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05	File ID:	0916405D.D
Sampled:	09/19/11 11:37	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 01:22
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1I22002 Sequence: 1J28614 Calibration: 1236001 Instrument: MS-BNA3

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	15100	11.8	23.6	47.2	D, E
120-12-7	Anthracene		11.8	23.6	47.2	U
1912-24-9	Atrazine		11.8	23.6	47.2	U
100-52-7	Benzaldehyde		11.8	23.6	47.2	U
92-87-5	Benzidine		118	236	472	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	236	472	U
207-08-9	Benzo(k)fluoranthene		11.8	23.6	47.2	U
92-52-4	1,1-Biphenyl	68.1	11.8	23.6	47.2	D
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	Q, 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	Y, 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	12.4	11.8	23.6	47.2	J, D
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		118	236	472	X, 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

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05	File ID:	0916405D.D
Sampled:	09/19/11 11:37	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 01:22
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1I22002 Sequence: 1J28614 Calibration: 1236001 Instrument: MS-BNA3

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	23.6	47.2	U
67-72-1	Hexachloroethane		11.8	23.6	47.2	Q, 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	160	11.8	23.6	47.2	D
91-57-6	2-Methylnaphthalene	178	11.8	23.6	47.2	D
95-48-7	2-Methylphenol		11.8	23.6	47.2	U
108-39-4/106	3-Methylphenol/4-Methylphenol	311	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	69.40	147	50 - 110	*
2-Fluorophenol	94.34	50.65	53.7	20 - 110	
Nitrobenzene-d5	47.17	105.6	224	40 - 110	*
Phenol-d6	94.34	134.0	142	0 - 110	*
Terphenyl-d14	47.17	124.1	263	50 - 135	*
2,4,6-Tribromophenol	94.34	136.2	144	40 - 125	*

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05RE1	File ID:	916405D2.D
Sampled:	09/19/11 11:37	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 20:45
Solids:		Preparation:	EXT_3510	Dilution:	500

Batch: 1I22002 Sequence: 1J28710 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		590	1180	2360	U
208-96-8	Acenaphthylene		590	1180	2360	U
98-86-2	Acetophenone	10700	590	1180	2360	D
120-12-7	Anthracene		590	1180	2360	U
1912-24-9	Atrazine		590	1180	2360	U
100-52-7	Benzaldehyde		590	1180	2360	U
92-87-5	Benzidine		5900	11800	23600	U
56-55-3	Benzo(a)anthracene		590	1180	2360	U
50-32-8	Benzo(a)pyrene		590	1180	2360	U
205-99-2	Benzo(b)fluoranthene		590	1180	2360	U
191-24-2	Benzo(g,h,i)perylene		590	1180	2360	U
65-85-0	Benzoic acid		5900	11800	23600	U
207-08-9	Benzo(k)fluoranthene		590	1180	2360	U
92-52-4	1,1-Biphenyl		590	1180	2360	U
101-55-3	4-Bromophenyl-phenylether		590	1180	2360	U
85-68-7	Butylbenzylphthalate		590	1180	2360	U
105-60-2	Caprolactam		590	1180	2360	Q, U
86-74-8	Carbazole		590	1180	2360	U
59-50-7	4-Chloro-3-methylphenol		590	1180	2360	U
106-47-8	4-Chloroaniline		590	1180	2360	U
111-91-1	Bis(2-chloroethoxy)methane		590	1180	2360	U
111-44-4	Bis(2-chloroethyl)ether		590	1180	2360	U
108-60-1	2,2'-Oxybis-1-chloropropane		590	1180	2360	Y, U
91-58-7	2-Chloronaphthalene		590	1180	2360	U
95-57-8	2-Chlorophenol		590	1180	2360	U
7005-72-3	4-Chlorophenyl phenyl ether		590	1180	2360	U
218-01-9	Chrysene		590	1180	2360	U
53-70-3	Dibenz(a,h)anthracene		590	1180	2360	U
132-64-9	Dibenzofuran		590	1180	2360	U
84-74-2	Di-n-butylphthalate		590	1180	2360	U
91-94-1	3,3'-Dichlorobenzidine		590	1180	2360	U
120-83-2	2,4-Dichlorophenol		590	1180	2360	U
84-66-2	Diethylphthalate		590	1180	2360	U
105-67-9	2,4-Dimethylphenol		2360	4720	9430	U
131-11-3	Dimethyl phthalate		590	1180	2360	U
534-52-1	4,6-Dinitro-2-methylphenol		2360	4720	9430	U
51-28-5	2,4-Dinitrophenol		5900	11800	23600	X, U
121-14-2	2,4-Dinitrotoluene		590	1180	2360	U
606-20-2	2,6-Dinitrotoluene		590	1180	2360	U
117-84-0	Di-n-octylphthalate		590	1180	2360	U

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05RE1	File ID:	916405D2.D
Sampled:	09/19/11 11:37	Prepared:	09/22/11 14:50	Analyzed:	10/13/11 20:45
Solids:		Preparation:	EXT_3510	Dilution:	500

Batch: 1I22002 Sequence: 1J28710 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		590	1180	2360	U
117-81-7	Bis(2-ethylhexyl)phthalate		590	1180	2360	U
206-44-0	Fluoranthene		590	1180	2360	U
86-73-7	Fluorene		590	1180	2360	U
118-74-1	Hexachlorobenzene		590	1180	2360	U
87-68-3	Hexachlorobutadiene		590	1180	2360	X, U
77-47-4	Hexachlorocyclopentadiene		590	1180	2360	U
67-72-1	Hexachloroethane		590	1180	2360	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		590	1180	2360	U
78-59-1	Isophorone		590	1180	2360	U
90-12-0	1-Methylnaphthalene		590	1180	2360	U
91-57-6	2-Methylnaphthalene		590	1180	2360	U
95-48-7	2-Methylphenol		590	1180	2360	U
108-39-4/106	3-Methylphenol/4-Methylphenol		590	1180	2360	U
100-01-6	4-Nitroaniline		2360	4720	9430	U
99-09-2	3-Nitroaniline		2360	4720	9430	U
88-74-4	2-Nitroaniline		2360	4720	9430	U
98-95-3	Nitrobenzene		590	1180	2360	U
100-02-7	4-Nitrophenol		2360	4720	9430	U
88-75-5	2-Nitrophenol		590	1180	2360	U
86-30-6	N-Nitrosodiphenylamine		590	1180	2360	U
621-64-7	N-Nitroso-di-n-propylamine		590	1180	2360	U
87-86-5	Pentachlorophenol		2360	4720	9430	U
85-01-8	Phenanthrene		590	1180	2360	U
108-95-2	Phenol		590	1180	2360	U
129-00-0	Pyrene		590	1180	2360	U
88-06-2	2,4,6-Trichlorophenol		590	1180	2360	U
95-95-4	2,4,5-Trichlorophenol		590	1180	2360	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	0.000		50 - 110	DU
2-Fluorophenol	94.34	0.000		20 - 110	DU
Nitrobenzene-d5	47.17	0.000		40 - 110	DU
Phenol-d6	94.34	0.000		0 - 110	DU
Terphenyl-d14	47.17	0.000		50 - 135	DU
2,4,6-Tribromophenol	94.34	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	0925201.D
Sampled:	09/28/11 15:28	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 11:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	Y, U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	Q, Y, U
100-52-7	Benzaldehyde	15.7	1.18	2.36	4.72	Y
92-87-5	Benzidine		11.8	23.6	47.2	X, Y, 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	23.6	47.2	Y, U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl	2.91	1.18	2.36	4.72	Q, J
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	Y, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	Q, U
218-01-9	Chrysene		1.18	2.36	4.72	Q, 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
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	Y, 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		11.8	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

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	0925201.D
Sampled:	09/28/11 15:28	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 11:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 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	Y, U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	Q, Y, U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	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	34.0	1.18	2.36	4.72	
91-57-6	2-Methylnaphthalene	37.7	1.18	2.36	4.72	
95-48-7	2-Methylphenol	79.2	1.18	2.36	4.72	
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	Y, U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	Q, 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	32.74	69.4	50 - 110	
2-Fluorophenol	94.34	18.65	19.8	20 - 110	*Y
Nitrobenzene-d5	47.17	36.15	76.6	40 - 110	
Phenol-d6	94.34	11.88	12.6	0 - 110	Y
Terphenyl-d14	47.17	25.51	54.1	50 - 135	
2,4,6-Tribromophenol	94.34	61.63	65.3	40 - 125	

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	0925203.D
Sampled:	09/28/11 10:49	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 11:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
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	1460	1.23	2.45	4.90	Y, E
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	Q, Y, U
100-52-7	Benzaldehyde		1.23	2.45	4.90	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, Y, 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	24.5	49.0	Y, U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl	3.32	1.23	2.45	4.90	Q, J
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	Y, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	Q, U
218-01-9	Chrysene		1.23	2.45	4.90	Q, 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
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	Y, 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		12.3	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

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	0925203.D
Sampled:	09/28/11 10:49	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 11:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 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	Y, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	Q, Y, U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	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	60.1	1.23	2.45	4.90	
91-57-6	2-Methylnaphthalene	66.9	1.23	2.45	4.90	
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol	15.7	1.23	2.45	4.90	
100-01-6	4-Nitroaniline		4.90	9.80	19.6	Y, U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	Q, 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	19.69	40.2	50 - 110	*
2-Fluorophenol	98.04	24.02	24.5	20 - 110	Y
Nitrobenzene-d5	49.02	37.77	77.0	40 - 110	
Phenol-d6	98.04	18.17	18.5	0 - 110	Y
Terphenyl-d14	49.02	43.30	88.3	50 - 135	
2,4,6-Tribromophenol	98.04	80.59	82.2	40 - 125	

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03RE1	File ID:	0925203D.D
Sampled:	09/28/11 10:49	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 18:43
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		123	245	490	U
83-32-9	Acenaphthene		123	245	490	U
208-96-8	Acenaphthylene		123	245	490	U
98-86-2	Acetophenone	3560	123	245	490	Y, D
120-12-7	Anthracene		123	245	490	U
1912-24-9	Atrazine		123	245	490	Q, Y, U
100-52-7	Benzaldehyde		123	245	490	Y, U
92-87-5	Benzidine		1230	2450	4900	X, Y, U
56-55-3	Benzo(a)anthracene		123	245	490	U
50-32-8	Benzo(a)pyrene		123	245	490	U
205-99-2	Benzo(b)fluoranthene		123	245	490	U
191-24-2	Benzo(g,h,i)perylene		123	245	490	U
65-85-0	Benzoic acid		1230	2450	4900	Y, U
207-08-9	Benzo(k)fluoranthene		123	245	490	U
92-52-4	1,1-Biphenyl		123	245	490	Q, U
101-55-3	4-Bromophenyl-phenylether		123	245	490	U
85-68-7	Butylbenzylphthalate		123	245	490	Y, U
105-60-2	Caprolactam		123	245	490	Q, U
86-74-8	Carbazole		123	245	490	U
59-50-7	4-Chloro-3-methylphenol		123	245	490	U
106-47-8	4-Chloroaniline		123	245	490	U
111-91-1	Bis(2-chloroethoxy)methane		123	245	490	Q, U
111-44-4	Bis(2-chloroethyl)ether		123	245	490	U
108-60-1	2,2'-Oxybis-1-chloropropane		123	245	490	U
91-58-7	2-Chloronaphthalene		123	245	490	U
95-57-8	2-Chlorophenol		123	245	490	U
7005-72-3	4-Chlorophenyl phenyl ether		123	245	490	Q, U
218-01-9	Chrysene		123	245	490	Q, U
53-70-3	Dibenz(a,h)anthracene		123	245	490	U
132-64-9	Dibenzofuran		123	245	490	U
84-74-2	Di-n-butylphthalate		123	245	490	U
120-83-2	2,4-Dichlorophenol		123	245	490	U
84-66-2	Diethylphthalate		123	245	490	Y, U
105-67-9	2,4-Dimethylphenol		490	980	1960	U
131-11-3	Dimethyl phthalate		123	245	490	U
534-52-1	4,6-Dinitro-2-methylphenol		490	980	1960	U
51-28-5	2,4-Dinitrophenol		1230	2450	4900	U
121-14-2	2,4-Dinitrotoluene		123	245	490	U
606-20-2	2,6-Dinitrotoluene		123	245	490	U
117-84-0	Di-n-octylphthalate		123	245	490	U

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03RE1	File ID:	0925203D.D
Sampled:	09/28/11 10:49	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 18:43
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		123	245	490	U
117-81-7	Bis(2-ethylhexyl)phthalate		123	245	490	Y, U
206-44-0	Fluoranthene		123	245	490	U
86-73-7	Fluorene		123	245	490	Q, Y, U
118-74-1	Hexachlorobenzene		123	245	490	U
87-68-3	Hexachlorobutadiene		123	245	490	U
77-47-4	Hexachlorocyclopentadiene		123	245	490	U
67-72-1	Hexachloroethane		123	245	490	U
193-39-5	Indeno(1,2,3-cd)pyrene		123	245	490	U
78-59-1	Isophorone		123	245	490	U
90-12-0	1-Methylnaphthalene		123	245	490	U
91-57-6	2-Methylnaphthalene		123	245	490	U
95-48-7	2-Methylphenol		123	245	490	U
108-39-4/106	3-Methylphenol/4-Methylphenol		123	245	490	U
100-01-6	4-Nitroaniline		490	980	1960	Y, U
99-09-2	3-Nitroaniline		490	980	1960	U
88-74-4	2-Nitroaniline		490	980	1960	Q, U
98-95-3	Nitrobenzene		123	245	490	U
100-02-7	4-Nitrophenol		490	980	1960	U
88-75-5	2-Nitrophenol		123	245	490	U
86-30-6	N-Nitrosodiphenylamine		123	245	490	U
621-64-7	N-Nitroso-di-n-propylamine		123	245	490	U
87-86-5	Pentachlorophenol		490	980	1960	U
85-01-8	Phenanthrene		123	245	490	U
108-95-2	Phenol		123	245	490	U
129-00-0	Pyrene		123	245	490	U
88-06-2	2,4,6-Trichlorophenol		123	245	490	U
95-95-4	2,4,5-Trichlorophenol		123	245	490	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	32.18	65.6	50 - 110	D
2-Fluorophenol	98.04	28.10	28.7	20 - 110	DY
Nitrobenzene-d5	49.02	41.89	85.5	40 - 110	D
Phenol-d6	98.04	19.49	19.9	0 - 110	DY
Terphenyl-d14	49.02	64.53	132	50 - 135	D
2,4,6-Tribromophenol	98.04	85.62	87.3	40 - 125	D

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	0925205D.D
Sampled:	09/29/11 10:36	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 19:18
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		118	236	472	U
83-32-9	Acenaphthene		118	236	472	U
208-96-8	Acenaphthylene		118	236	472	U
98-86-2	Acetophenone	6390	118	236	472	Y, D, E
120-12-7	Anthracene		118	236	472	U
1912-24-9	Atrazine		118	236	472	Q, Y, U
100-52-7	Benzaldehyde		118	236	472	Y, U
92-87-5	Benzidine		1180	2360	4720	X, Y, U
56-55-3	Benzo(a)anthracene		118	236	472	U
50-32-8	Benzo(a)pyrene		118	236	472	U
205-99-2	Benzo(b)fluoranthene		118	236	472	U
191-24-2	Benzo(g,h,i)perylene		118	236	472	U
65-85-0	Benzoic acid		1180	2360	4720	Y, U
207-08-9	Benzo(k)fluoranthene		118	236	472	U
92-52-4	1,1-Biphenyl		118	236	472	Q, U
101-55-3	4-Bromophenyl-phenylether		118	236	472	U
85-68-7	Butylbenzylphthalate		118	236	472	Y, U
105-60-2	Caprolactam		118	236	472	Q, U
86-74-8	Carbazole		118	236	472	U
59-50-7	4-Chloro-3-methylphenol		118	236	472	U
106-47-8	4-Chloroaniline		118	236	472	U
111-91-1	Bis(2-chloroethoxy)methane		118	236	472	Q, U
111-44-4	Bis(2-chloroethyl)ether		118	236	472	U
108-60-1	2,2'-Oxybis-1-chloropropane		118	236	472	U
91-58-7	2-Chloronaphthalene		118	236	472	U
95-57-8	2-Chlorophenol		118	236	472	U
7005-72-3	4-Chlorophenyl phenyl ether		118	236	472	Q, U
218-01-9	Chrysene		118	236	472	Q, U
53-70-3	Dibenz(a,h)anthracene		118	236	472	U
132-64-9	Dibenzofuran		118	236	472	U
84-74-2	Di-n-butylphthalate		118	236	472	U
120-83-2	2,4-Dichlorophenol		118	236	472	U
84-66-2	Diethylphthalate		118	236	472	Y, U
105-67-9	2,4-Dimethylphenol		472	943	1890	U
131-11-3	Dimethyl phthalate		118	236	472	U
534-52-1	4,6-Dinitro-2-methylphenol		472	943	1890	U
51-28-5	2,4-Dinitrophenol		1180	2360	4720	U
121-14-2	2,4-Dinitrotoluene		118	236	472	U
606-20-2	2,6-Dinitrotoluene		118	236	472	U
117-84-0	Di-n-octylphthalate		118	236	472	U

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	0925205D.D
Sampled:	09/29/11 10:36	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 19:18
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		118	236	472	U
117-81-7	Bis(2-ethylhexyl)phthalate		118	236	472	Y, U
206-44-0	Fluoranthene		118	236	472	U
86-73-7	Fluorene		118	236	472	Q, Y, U
118-74-1	Hexachlorobenzene		118	236	472	U
87-68-3	Hexachlorobutadiene		118	236	472	U
77-47-4	Hexachlorocyclopentadiene		118	236	472	U
67-72-1	Hexachloroethane		118	236	472	U
193-39-5	Indeno(1,2,3-cd)pyrene		118	236	472	U
78-59-1	Isophorone		118	236	472	U
90-12-0	1-Methylnaphthalene	133	118	236	472	D, J
91-57-6	2-Methylnaphthalene	131	118	236	472	D, J
95-48-7	2-Methylphenol		118	236	472	U
108-39-4/106	3-Methylphenol/4-Methylphenol		118	236	472	U
100-01-6	4-Nitroaniline		472	943	1890	Y, U
99-09-2	3-Nitroaniline		472	943	1890	U
88-74-4	2-Nitroaniline		472	943	1890	Q, U
98-95-3	Nitrobenzene		118	236	472	U
100-02-7	4-Nitrophenol		472	943	1890	U
88-75-5	2-Nitrophenol		118	236	472	U
86-30-6	N-Nitrosodiphenylamine		118	236	472	U
621-64-7	N-Nitroso-di-n-propylamine		118	236	472	U
87-86-5	Pentachlorophenol		472	943	1890	U
85-01-8	Phenanthrene		118	236	472	U
108-95-2	Phenol		118	236	472	U
129-00-0	Pyrene		118	236	472	U
88-06-2	2,4,6-Trichlorophenol		118	236	472	U
95-95-4	2,4,5-Trichlorophenol		118	236	472	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	32.24	68.4	50 - 110	D
2-Fluorophenol	94.34	26.88	28.5	20 - 110	DY
Nitrobenzene-d5	47.17	37.90	80.4	40 - 110	D
Phenol-d6	94.34	26.41	28.0	0 - 110	DY
Terphenyl-d14	47.17	50.60	107	50 - 135	D
2,4,6-Tribromophenol	94.34	61.71	65.4	40 - 125	D

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05RE1	File ID:	0925205D.D
Sampled:	09/29/11 10:36	Prepared:	10/03/11 12:10	Analyzed:	10/06/11 13:11
Solids:		Preparation:	EXT_3510	Dilution:	200

Batch: 1J03003 Sequence: 1J28302 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		236	472	943	U
83-32-9	Acenaphthene		236	472	943	U
208-96-8	Acenaphthylene		236	472	943	U
98-86-2	Acetophenone	7380	236	472	943	D
120-12-7	Anthracene		236	472	943	U
1912-24-9	Atrazine		236	472	943	Q, Y, U
100-52-7	Benzaldehyde		236	472	943	Y, U
92-87-5	Benzidine		2360	4720	9430	X, Y, U
56-55-3	Benzo(a)anthracene		236	472	943	U
50-32-8	Benzo(a)pyrene		236	472	943	U
205-99-2	Benzo(b)fluoranthene		236	472	943	U
191-24-2	Benzo(g,h,i)perylene		236	472	943	U
65-85-0	Benzoic acid		2360	4720	9430	U
207-08-9	Benzo(k)fluoranthene		236	472	943	U
92-52-4	1,1-Biphenyl		236	472	943	Q, U
101-55-3	4-Bromophenyl-phenylether		236	472	943	U
85-68-7	Butylbenzylphthalate		236	472	943	U
105-60-2	Caprolactam		236	472	943	Q, U
86-74-8	Carbazole		236	472	943	U
59-50-7	4-Chloro-3-methylphenol		236	472	943	U
106-47-8	4-Chloroaniline		236	472	943	U
111-91-1	Bis(2-chloroethoxy)methane		236	472	943	Q, U
111-44-4	Bis(2-chloroethyl)ether		236	472	943	U
108-60-1	2,2'-Oxybis-1-chloropropane		236	472	943	U
91-58-7	2-Chloronaphthalene		236	472	943	U
95-57-8	2-Chlorophenol		236	472	943	U
7005-72-3	4-Chlorophenyl phenyl ether		236	472	943	Q, U
218-01-9	Chrysene		236	472	943	Q, U
53-70-3	Dibenz(a,h)anthracene		236	472	943	U
132-64-9	Dibenzofuran		236	472	943	U
84-74-2	Di-n-butylphthalate		236	472	943	U
120-83-2	2,4-Dichlorophenol		236	472	943	U
84-66-2	Diethylphthalate		236	472	943	U
105-67-9	2,4-Dimethylphenol		943	1890	3770	U
131-11-3	Dimethyl phthalate		236	472	943	U
534-52-1	4,6-Dinitro-2-methylphenol		943	1890	3770	U
51-28-5	2,4-Dinitrophenol		2360	4720	9430	U
121-14-2	2,4-Dinitrotoluene		236	472	943	U
606-20-2	2,6-Dinitrotoluene		236	472	943	U
117-84-0	Di-n-octylphthalate		236	472	943	U

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05RE1	File ID:	0925205D.D
Sampled:	09/29/11 10:36	Prepared:	10/03/11 12:10	Analyzed:	10/06/11 13:11
Solids:		Preparation:	EXT_3510	Dilution:	200

Batch: 1J03003 Sequence: 1J28302 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		236	472	943	U
117-81-7	Bis(2-ethylhexyl)phthalate		236	472	943	U
206-44-0	Fluoranthene		236	472	943	U
86-73-7	Fluorene		236	472	943	Q, U
118-74-1	Hexachlorobenzene		236	472	943	U
87-68-3	Hexachlorobutadiene		236	472	943	U
77-47-4	Hexachlorocyclopentadiene		236	472	943	U
67-72-1	Hexachloroethane		236	472	943	U
193-39-5	Indeno(1,2,3-cd)pyrene		236	472	943	U
78-59-1	Isophorone		236	472	943	U
90-12-0	1-Methylnaphthalene		236	472	943	U
91-57-6	2-Methylnaphthalene		236	472	943	U
95-48-7	2-Methylphenol		236	472	943	U
108-39-4/106	3-Methylphenol/4-Methylphenol		236	472	943	U
100-01-6	4-Nitroaniline		943	1890	3770	Y, U
99-09-2	3-Nitroaniline		943	1890	3770	U
88-74-4	2-Nitroaniline		943	1890	3770	Q, U
98-95-3	Nitrobenzene		236	472	943	U
100-02-7	4-Nitrophenol		943	1890	3770	U
88-75-5	2-Nitrophenol		236	472	943	U
86-30-6	N-Nitrosodiphenylamine		236	472	943	U
621-64-7	N-Nitroso-di-n-propylamine		236	472	943	U
87-86-5	Pentachlorophenol		943	1890	3770	U
85-01-8	Phenanthrene		236	472	943	U
108-95-2	Phenol		236	472	943	U
129-00-0	Pyrene		236	472	943	U
88-06-2	2,4,6-Trichlorophenol		236	472	943	U
95-95-4	2,4,5-Trichlorophenol		236	472	943	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	0.000		50 - 110	DU
2-Fluorophenol	94.34	0.000		20 - 110	DU
Nitrobenzene-d5	47.17	0.000		40 - 110	DU
Phenol-d6	94.34	0.000		0 - 110	DU
Terphenyl-d14	47.17	0.000		50 - 135	DU
2,4,6-Tribromophenol	94.34	0.000		40 - 125	DU

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27711	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27711-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/03/11 15:18		
2-Fluorobiphenyl	50.00	107	80 - 120	9.816	9.816	0.0000	+/-0.500	
2-Fluorophenol	100.0	112	80 - 120	5.312	5.312	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	107	80 - 120	7.54	7.54	0.0000	+/-0.500	
Phenol-d6	100.0	112	80 - 120	6.365	6.365	0.0000	+/-0.500	
Terphenyl-d14	50.00	111	80 - 120	14.966	14.966	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	96.0	80 - 120	11.67	11.67	0.0000	+/-0.500	
LCS (1I22002-BS1) ug/L				Lab File ID: I22002L1.D		Analyzed: 10/03/11 18:56		
2-Fluorobiphenyl	50.00	50.4	50 - 110	9.816	9.816	0.0000	+/-0.500	
2-Fluorophenol	100.0	40.2	20 - 110	5.313	5.312	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	78.5	40 - 110	7.535	7.54	-0.0050	+/-0.500	
Phenol-d6	100.0	21.1	0 - 110	6.355	6.365	-0.0100	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	14.961	14.966	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	79.5	40 - 125	11.665	11.67	-0.0050	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27903-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/05/11 08:50		
2-Fluorobiphenyl	50.00	89.2	80 - 120	9.713	9.713	0.0000	+/-0.500	
2-Fluorophenol	100.0	77.6	80 - 120	5.039	5.039	0.0000	+/-0.500	*
Nitrobenzene-d5	50.00	93.7	80 - 120	7.42	7.42	0.0000	+/-0.500	
Phenol-d6	100.0	72.8	80 - 120	6.218	6.218	0.0000	+/-0.500	*
Terphenyl-d14	50.00	104	80 - 120	14.628	14.628	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	85.2	80 - 120	11.53	11.53	0.0000	+/-0.500	
LCS (1J03003-BS1) ug/L				Lab File ID: J03003L1.D		Analyzed: 10/05/11 10:07		
2-Fluorobiphenyl	50.00	106	50 - 110	9.719	9.713	0.0060	+/-0.500	
2-Fluorophenol	100.0	30.9	20 - 110	5.042	5.039	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	90.0	40 - 110	7.422	7.42	0.0020	+/-0.500	
Phenol-d6	100.0	18.3	0 - 110	6.212	6.218	-0.0060	+/-0.500	
Terphenyl-d14	50.00	106	50 - 135	14.632	14.628	0.0040	+/-0.500	
2,4,6-Tribromophenol	100.0	83.3	40 - 125	11.534	11.53	0.0040	+/-0.500	
Blank (1J03003-BLK1) ug/L				Lab File ID: J03003B1.D		Analyzed: 10/05/11 10:41		
2-Fluorobiphenyl	50.00	68.1	50 - 110	9.718	9.713	0.0050	+/-0.500	
2-Fluorophenol	100.0	27.8	20 - 110	5.04	5.039	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	85.6	40 - 110	7.418	7.42	-0.0020	+/-0.500	
Phenol-d6	100.0	15.4	0 - 110	6.2	6.218	-0.0180	+/-0.500	
Terphenyl-d14	50.00	107	50 - 135	14.626	14.628	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	77.1	40 - 125	11.524	11.53	-0.0060	+/-0.500	
GW0139 (1109252-01) ug/L				Lab File ID: 0925201.D		Analyzed: 10/05/11 11:16		
2-Fluorobiphenyl	47.17	69.4	50 - 110	9.721	9.713	0.0080	+/-0.500	
2-Fluorophenol	94.34	19.8	20 - 110	5.114	5.039	0.0750	+/-0.500	*
Nitrobenzene-d5	47.17	76.6	40 - 110	7.425	7.42	0.0050	+/-0.500	
Phenol-d6	94.34	12.6	0 - 110	6.279	6.218	0.0610	+/-0.500	
Terphenyl-d14	47.17	54.1	50 - 135	14.634	14.628	0.0060	+/-0.500	
2,4,6-Tribromophenol	94.34	65.3	40 - 125	11.54	11.53	0.0100	+/-0.500	
GW0189 (1109252-03) ug/L				Lab File ID: 0925203.D		Analyzed: 10/05/11 11:50		
2-Fluorobiphenyl	49.02	40.2	50 - 110	9.729	9.713	0.0160	+/-0.500	*
2-Fluorophenol	98.04	24.5	20 - 110	5.183	5.039	0.1440	+/-0.500	
Nitrobenzene-d5	49.02	77.0	40 - 110	7.47	7.42	0.0500	+/-0.500	
Phenol-d6	98.04	18.5	0 - 110	6.358	6.218	0.1400	+/-0.500	
Terphenyl-d14	49.02	88.3	50 - 135	14.638	14.628	0.0100	+/-0.500	
2,4,6-Tribromophenol	98.04	82.2	40 - 125	11.564	11.53	0.0340	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0189 (1109252-03RE1) ug/L				Lab File ID: 0925203D.D		Analyzed: 10/05/11 18:43		
2-Fluorobiphenyl	49.02	65.6	50 - 110	9.719	9.713	0.0060	+/-0.500	
2-Fluorophenol	98.04	28.7	20 - 110	5.046	5.039	0.0070	+/-0.500	
Nitrobenzene-d5	49.02	85.5	40 - 110	7.422	7.42	0.0020	+/-0.500	
Phenol-d6	98.04	19.9	0 - 110	6.21	6.218	-0.0080	+/-0.500	
Terphenyl-d14	49.02	132	50 - 135	14.632	14.628	0.0040	+/-0.500	
2,4,6-Tribromophenol	98.04	87.3	40 - 125	11.526	11.53	-0.0040	+/-0.500	
GW0210 (1109252-05) ug/L				Lab File ID: 0925205D.D		Analyzed: 10/05/11 19:18		
2-Fluorobiphenyl	47.17	68.4	50 - 110	9.719	9.713	0.0060	+/-0.500	
2-Fluorophenol	94.34	28.5	20 - 110	5.045	5.039	0.0060	+/-0.500	
Nitrobenzene-d5	47.17	80.4	40 - 110	7.423	7.42	0.0030	+/-0.500	
Phenol-d6	94.34	28.0	0 - 110	6.208	6.218	-0.0100	+/-0.500	
Terphenyl-d14	47.17	107	50 - 135	14.628	14.628	0.0000	+/-0.500	
2,4,6-Tribromophenol	94.34	65.4	40 - 125	11.522	11.53	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28302	Instrument:	MS-BNA1
		Calibration:	1257001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28302-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/06/11 07:26		
2-Fluorobiphenyl	50.00	84.1	80 - 120	9.716	9.716	0.0000	+/-0.500	
2-Fluorophenol	100.0	81.2	80 - 120	5.043	5.043	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	7.426	7.426	0.0000	+/-0.500	
Phenol-d6	100.0	83.3	80 - 120	6.223	6.223	0.0000	+/-0.500	
Terphenyl-d14	50.00	115	80 - 120	14.633	14.633	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	98.2	80 - 120	11.535	11.535	0.0000	+/-0.500	
GW0210 (1109252-05RE1) ug/L				Lab File ID: 0925205D.D		Analyzed: 10/06/11 13:11		
2-Fluorobiphenyl	47.17		50 - 110		9.716	-9.7160	+/-0.500	*
2-Fluorophenol	94.34		20 - 110		5.043	-5.0430	+/-0.500	*
Nitrobenzene-d5	47.17		40 - 110		7.426	-7.4260	+/-0.500	*
Phenol-d6	94.34		0 - 110		6.223	-6.2230	+/-0.500	*
Terphenyl-d14	47.17		50 - 135		14.633	-14.6330	+/-0.500	*
2,4,6-Tribromophenol	94.34		40 - 125		11.535	-11.5350	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28412	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28412-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/10/11 20:18		
2-Fluorobiphenyl	50.00	106	80 - 120	9.837	9.837	0.0000	+/-0.500	
2-Fluorophenol	100.0	105	80 - 120	5.334	5.334	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	109	80 - 120	7.556	7.556	0.0000	+/-0.500	
Phenol-d6	100.0	101	80 - 120	6.408	6.408	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	80 - 120	14.987	14.987	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	103	80 - 120	11.697	11.697	0.0000	+/-0.500	
Blank (1I22002-BLK1) ug/L				Lab File ID: I22002B1.D		Analyzed: 10/10/11 22:28		
2-Fluorobiphenyl	50.00	58.5	50 - 110	9.829	9.837	-0.0080	+/-0.500	
2-Fluorophenol	100.0	29.1	20 - 110	5.331	5.334	-0.0030	+/-0.500	
Nitrobenzene-d5	50.00	72.8	40 - 110	7.548	7.556	-0.0080	+/-0.500	
Phenol-d6	100.0	16.4	0 - 110	6.389	6.408	-0.0190	+/-0.500	
Terphenyl-d14	50.00	94.5	50 - 135	14.985	14.987	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	79.5	40 - 125	11.683	11.697	-0.0140	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28614	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28614-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/12/11 13:53		
2-Fluorobiphenyl	50.00	108	80 - 120	9.847	9.847	0.0000	+/-0.500	
2-Fluorophenol	100.0	95.6	80 - 120	5.333	5.333	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	102	80 - 120	7.566	7.566	0.0000	+/-0.500	
Phenol-d6	100.0	91.6	80 - 120	6.412	6.412	0.0000	+/-0.500	
Terphenyl-d14	50.00	102	80 - 120	15.002	15.002	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	95.6	80 - 120	11.706	11.706	0.0000	+/-0.500	
GW0134 (1109164-01) ug/L				Lab File ID: 0916401D.D		Analyzed: 10/13/11 00:03		
2-Fluorobiphenyl	48.08	62.0	50 - 110	9.869	9.847	0.0220	+/-0.500	
2-Fluorophenol	96.15	24.6	20 - 110	5.376	5.333	0.0430	+/-0.500	
Nitrobenzene-d5	48.08	88.4	40 - 110	7.583	7.566	0.0170	+/-0.500	
Phenol-d6	96.15	26.3	0 - 110	6.455	6.412	0.0430	+/-0.500	
Terphenyl-d14	48.08	109	50 - 135	15.045	15.002	0.0430	+/-0.500	
2,4,6-Tribromophenol	96.15	56.6	40 - 125	11.76	11.706	0.0540	+/-0.500	
GW0135 (1109164-03) ug/L				Lab File ID: 0916403D.D		Analyzed: 10/13/11 00:43		
2-Fluorobiphenyl	47.17	69.4	50 - 110	9.869	9.847	0.0220	+/-0.500	
2-Fluorophenol	94.34	26.4	20 - 110	5.371	5.333	0.0380	+/-0.500	
Nitrobenzene-d5	47.17	83.1	40 - 110	7.582	7.566	0.0160	+/-0.500	
Phenol-d6	94.34	28.5	0 - 110	6.45	6.412	0.0380	+/-0.500	
Terphenyl-d14	47.17	112	50 - 135	15.04	15.002	0.0380	+/-0.500	
2,4,6-Tribromophenol	94.34	58.6	40 - 125	11.754	11.706	0.0480	+/-0.500	
GW0138 (1109164-05) ug/L				Lab File ID: 0916405D.D		Analyzed: 10/13/11 01:22		
2-Fluorobiphenyl	47.17	147	50 - 110	9.858	9.847	0.0110	+/-0.500	*
2-Fluorophenol	94.34	53.7	20 - 110	5.397	5.333	0.0640	+/-0.500	
Nitrobenzene-d5	47.17	224	40 - 110	7.582	7.566	0.0160	+/-0.500	*
Phenol-d6	94.34	142	0 - 110	6.509	6.412	0.0970	+/-0.500	*
Terphenyl-d14	47.17	263	50 - 135	15.029	15.002	0.0270	+/-0.500	*
2,4,6-Tribromophenol	94.34	144	40 - 125	11.744	11.706	0.0380	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28710	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28710-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/13/11 17:13		
2-Fluorobiphenyl	50.00	103	80 - 120	9.848	9.848	0.0000	+/-0.500	
2-Fluorophenol	100.0	94.1	80 - 120	5.318	5.318	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	107	80 - 120	7.567	7.567	0.0000	+/-0.500	
Phenol-d6	100.0	94.7	80 - 120	6.402	6.402	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	15.003	15.003	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	96.8	80 - 120	11.707	11.707	0.0000	+/-0.500	
GW0138 (1109164-05RE1) ug/L				Lab File ID: 916405D2.D		Analyzed: 10/13/11 20:45		
2-Fluorobiphenyl	47.17		50 - 110		9.848	-9.8480	+/-0.500	*
2-Fluorophenol	94.34		20 - 110		5.318	-5.3180	+/-0.500	*
Nitrobenzene-d5	47.17		40 - 110		7.567	-7.5670	+/-0.500	*
Phenol-d6	94.34		0 - 110		6.402	-6.4020	+/-0.500	*
Terphenyl-d14	47.17		50 - 135		15.003	-15.0030	+/-0.500	*
2,4,6-Tribromophenol	94.34		40 - 125		11.707	-11.7070	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I22002	Laboratory ID:	1I22002-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	36.33	72.7	45 - 110
Acenaphthylene	50.00	34.30	68.6	50 - 105
Acetophenone	50.00	48.14	96.3	50 - 110
Anthracene	50.00	44.20	88.4	55 - 110
Atrazine	50.00	46.04	92.1	70 - 115
Benzaldehyde	50.00	45.09	90.2	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	46.15	92.3	55 - 110
Benzo(a)pyrene	50.00	43.28	86.6	55 - 110
Benzo(b)fluoranthene	50.00	45.66	91.3	45 - 120
Benzo(g,h,i)perylene	50.00	41.98	84.0	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	45.95	91.9	45 - 125
1,1-Biphenyl	50.00	43.01	86.0	50 - 110
4-Bromophenyl-phenylether	50.00	43.39	86.8	50 - 115
Butylbenzylphthalate	50.00	50.53	101	45 - 115
Caprolactam	**50.00**	**6.820**	**13.6**	**20 - 110**
Carbazole	50.00	42.72	85.4	50 - 115
4-Chloro-3-methylphenol	50.00	38.41	76.8	45 - 110
4-Chloroaniline	50.00	38.20	76.4	15 - 110
Bis(2-chloroethoxy)methane	50.00	43.85	87.7	45 - 105
Bis(2-chloroethyl)ether	50.00	44.57	89.1	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	32.10	64.2	25 - 130
2-Chloronaphthalene	50.00	33.50	67.0	50 - 105
2-Chlorophenol	50.00	36.74	73.5	35 - 105
4-Chlorophenyl phenyl ether	50.00	44.52	89.0	50 - 110
Chrysene	50.00	46.49	93.0	55 - 110
Dibenz(a,h)anthracene	50.00	41.54	83.1	40 - 125
Dibenzofuran	50.00	41.05	82.1	55 - 105
Di-n-butylphthalate	50.00	47.55	95.1	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I22002	Laboratory ID:	1I22002-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	41.64	83.3	20 - 110
2,4-Dichlorophenol	50.00	38.00	76.0	40 - 110
Diethylphthalate	50.00	48.10	96.2	40 - 120
2,4-Dimethylphenol	50.00	36.34	72.7	30 - 110
Dimethyl phthalate	50.00	47.77	95.5	25 - 125
4,6-Dinitro-2-methylphenol	50.00	52.03	104	40 - 130
2,4-Dinitrophenol	50.00	49.51	99.0	15 - 140
2,4-Dinitrotoluene	50.00	46.36	92.7	50 - 120
2,6-Dinitrotoluene	50.00	44.73	89.5	50 - 115
Di-n-octylphthalate	50.00	49.63	99.3	35 - 135
1,2-Diphenylhydrazine	50.00	40.11	80.2	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	50.58	101	40 - 125
Fluoranthene	50.00	43.61	87.2	55 - 115
Fluorene	50.00	41.05	82.1	50 - 110
Hexachlorobenzene	50.00	40.21	80.4	50 - 110
Hexachlorobutadiene	50.00	14.63	29.3	25 - 105
Hexachlorocyclopentadiene	50.00	13.04	26.1	10 - 110
Hexachloroethane	**50.00**	**14.66**	**29.3**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	40.88	81.8	45 - 125
Isophorone	50.00	39.73	79.5	50 - 110
1-Methylnaphthalene	50.00	30.07	60.1	30 - 115
2-Methylnaphthalene	50.00	27.90	55.8	45 - 105
2-Methylphenol	50.00	29.71	59.4	40 - 110
3-Methylphenol/4-Methylphenol	50.00	25.70	51.4	30 - 110
4-Nitroaniline	50.00	41.51	83.0	35 - 120
3-Nitroaniline	50.00	35.98	72.0	20 - 125
2-Nitroaniline	50.00	43.95	87.9	50 - 115
Nitrobenzene	50.00	42.15	84.3	30 - 110
4-Nitrophenol	50.00	11.31	22.6	0 - 125
2-Nitrophenol	50.00	41.47	82.9	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I22002	Laboratory ID:	1I22002-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	34.40	68.8	50 - 110
N-Nitroso-di-n-propylamine	50.00	48.10	96.2	35 - 130
Pentachlorophenol	50.00	48.35	96.7	40 - 115
Phenanthrene	50.00	45.07	90.1	50 - 115
Phenol	50.00	10.88	21.8	0 - 115
Pyrene	50.00	46.37	92.7	50 - 130
2,4,6-Trichlorophenol	50.00	41.14	82.3	50 - 115
2,4,5-Trichlorophenol	50.00	41.03	82.1	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03003	Laboratory ID:	1J03003-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	48.35	96.7	20 - 110
Acenaphthene	50.00	47.67	95.3	45 - 110
Acenaphthylene	50.00	50.36	101	50 - 105
Acetophenone	50.00	39.38	78.8	50 - 110
Anthracene	50.00	52.12	104	55 - 110
Atrazine	**50.00**	**67.38**	**135**	**70 - 115**
Benzaldehyde	50.00	53.39	107	10 - 180
Benzidine	50.00	14.69	29.4	0 - 200
Benzo(a)anthracene	50.00	54.62	109	55 - 110
Benzo(a)pyrene	50.00	50.00	100	55 - 110
Benzo(b)fluoranthene	50.00	59.10	118	45 - 120
Benzo(g,h,i)perylene	50.00	51.32	103	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	58.43	117	45 - 125
1,1-Biphenyl	**50.00**	**60.09**	**120**	**50 - 110**
4-Bromophenyl-phenylether	50.00	55.00	110	50 - 115
Butylbenzylphthalate	50.00	52.97	106	45 - 115
Caprolactam	**50.00**	**8.473**	**16.9**	**20 - 110**
Carbazole	50.00	53.39	107	50 - 115
4-Chloro-3-methylphenol	50.00	37.53	75.1	45 - 110
4-Chloroaniline	50.00	39.46	78.9	15 - 110
Bis(2-chloroethoxy)methane	**50.00**	**56.94**	**114**	**45 - 105**
Bis(2-chloroethyl)ether	50.00	42.40	84.8	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	43.52	87.0	25 - 130
2-Chloronaphthalene	50.00	44.27	88.5	50 - 105
2-Chlorophenol	50.00	30.10	60.2	35 - 105
4-Chlorophenyl phenyl ether	**50.00**	**64.13**	**128**	**50 - 110**
Chrysene	**50.00**	**56.92**	**114**	**55 - 110**
Dibenz(a,h)anthracene	50.00	51.20	102	40 - 125
Dibenzofuran	50.00	52.65	105	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03003	Laboratory ID:	1J03003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	54.53	109	55 - 115
2,4-Dichlorophenol	50.00	38.12	76.2	40 - 110
Diethylphthalate	50.00	56.94	114	40 - 120
2,4-Dimethylphenol	50.00	37.06	74.1	30 - 110
Dimethyl phthalate	50.00	58.66	117	25 - 125
4,6-Dinitro-2-methylphenol	50.00	36.04	72.1	40 - 130
2,4-Dinitrophenol	50.00	31.08	62.2	15 - 140
2,4-Dinitrotoluene	50.00	49.39	98.8	50 - 120
2,6-Dinitrotoluene	50.00	53.91	108	50 - 115
Di-n-octylphthalate	50.00	53.38	107	35 - 135
1,2-Diphenylhydrazine	50.00	54.24	108	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	48.52	97.0	40 - 125
Fluoranthene	50.00	56.13	112	55 - 115
Fluorene	**50.00**	**55.43**	**111**	**50 - 110**
Hexachlorobenzene	50.00	50.43	101	50 - 110
Hexachlorobutadiene	50.00	22.41	44.8	25 - 105
Hexachlorocyclopentadiene	50.00	22.54	45.1	10 - 110
Hexachloroethane	50.00	16.12	32.2	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	48.28	96.6	45 - 125
Isophorone	50.00	46.38	92.8	50 - 110
1-Methylnaphthalene	50.00	44.15	88.3	30 - 115
2-Methylnaphthalene	50.00	40.36	80.7	45 - 105
2-Methylphenol	50.00	25.63	51.3	40 - 110
3-Methylphenol/4-Methylphenol	50.00	20.84	41.7	30 - 110
4-Nitroaniline	50.00	44.11	88.2	35 - 120
3-Nitroaniline	50.00	39.48	79.0	20 - 125
2-Nitroaniline	**50.00**	**59.04**	**118**	**50 - 115**
Nitrobenzene	50.00	45.92	91.8	30 - 110
4-Nitrophenol	50.00	10.56	21.1	0 - 125
2-Nitrophenol	50.00	44.94	89.9	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03003	Laboratory ID:	1J03003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	44.94	89.9	50 - 110
N-Nitroso-di-n-propylamine	50.00	45.45	90.9	35 - 130
Pentachlorophenol	50.00	44.15	88.3	40 - 115
Phenanthrene	50.00	49.05	98.1	50 - 115
Phenol	50.00	10.76	21.5	0 - 115
Pyrene	50.00	60.60	121	50 - 130
2,4,6-Trichlorophenol	50.00	51.86	104	50 - 115
2,4,5-Trichlorophenol	50.00	51.35	103	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I22002 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/22/11 14:50	1,040.00	1.00
GW0135	1109164-03	09/22/11 14:50	1,060.00	1.00
GW0138	1109164-05	09/22/11 14:50	1,060.00	1.00
GW0138	1109164-05RE1	09/22/11 14:50	1,060.00	1.00
Blank	1I22002-BLK1	09/22/11 14:50	1,000.00	1.00
LCS	1I22002-BS1	09/22/11 14:50	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J03003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/03/11 12:10	1,060.00	1.00
GW0189	1109252-03	10/03/11 12:10	1,020.00	1.00
GW0189	1109252-03RE1	10/03/11 12:10	1,020.00	1.00
GW0210	1109252-05	10/03/11 12:10	1,060.00	1.00
GW0210	1109252-05RE1	10/03/11 12:10	1,060.00	1.00
Blank	1J03003-BLK1	10/03/11 12:10	1,000.00	1.00
LCS	1J03003-BS1	10/03/11 12:10	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/10/11
Instrument ID:	MS-BNA1	Injection Time:	16:29
Sequence:	1I25701	Lab Sample ID:	1I25701-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.2	PASS
68	Less than 2% of 69	1.13	PASS
69	Less than 200% of 198	37.6	PASS
70	Less than 2% of 69	0.099	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.49	PASS
275	10 - 30% of 198	15.3	PASS
365	1 - 200% of 198	2.02	PASS
441	0.001 - 100% of 443	79.3	PASS
442	40 - 200% of 198	53.7	PASS
443	17 - 23% of 442	18.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/13/11
Instrument ID:	MS-BNA1	Injection Time:	15:01
Sequence:	1I25701	Lab Sample ID:	1I25701-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	33.4	PASS
68	Less than 2% of 69	0.839	PASS
69	Less than 200% of 198	42.4	PASS
70	Less than 2% of 69	0.514	PASS
127	40 - 60% of 198	49.2	PASS
197	Less than 1% of 198	0.297	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.83	PASS
275	10 - 30% of 198	15.2	PASS
365	1 - 200% of 198	2.11	PASS
441	0.001 - 100% of 443	71.1	PASS
442	40 - 200% of 198	49.6	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/03/11
Instrument ID:	MS-BNA3	Injection Time:	14:50
Sequence:	1J27711	Lab Sample ID:	1J27711-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	49.8	PASS
70	Less than 2% of 69	1.38	PASS
127	40 - 60% of 198	47.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.17	PASS
275	10 - 30% of 198	24.6	PASS
365	1 - 200% of 198	2.46	PASS
441	0.001 - 100% of 443	71.6	PASS
442	40 - 200% of 198	59.7	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/05/11
Instrument ID:	MS-BNA1	Injection Time:	08:24
Sequence:	1J27903	Lab Sample ID:	1J27903-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	36.1	PASS
68	Less than 2% of 69	0.569	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.436	PASS
127	40 - 60% of 198	48.3	PASS
197	Less than 1% of 198	0.293	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.66	PASS
275	10 - 30% of 198	17.5	PASS
365	1 - 200% of 198	2.11	PASS
441	0.001 - 100% of 443	75.2	PASS
442	40 - 200% of 198	52.5	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/06/11
Instrument ID:	MS-BNA1	Injection Time:	06:59
Sequence:	1J28302	Lab Sample ID:	1J28302-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.6	PASS
68	Less than 2% of 69	0.353	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.499	PASS
127	40 - 60% of 198	46.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.02	PASS
275	10 - 30% of 198	16.8	PASS
365	1 - 200% of 198	1.59	PASS
441	0.001 - 100% of 443	87.3	PASS
442	40 - 200% of 198	49	PASS
443	17 - 23% of 442	17.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/10/11
Instrument ID:	MS-BNA3	Injection Time:	19:46
Sequence:	1J28412	Lab Sample ID:	1J28412-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	59.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	60.2	PASS
70	Less than 2% of 69	1.21	PASS
127	40 - 60% of 198	54.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.97	PASS
275	10 - 30% of 198	23.6	PASS
365	1 - 200% of 198	2.04	PASS
441	0.001 - 100% of 443	73.3	PASS
442	40 - 200% of 198	50.2	PASS
443	17 - 23% of 442	19.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/12/11
Instrument ID:	MS-BNA3	Injection Time:	13:23
Sequence:	1J28614	Lab Sample ID:	1J28614-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.5	PASS
70	Less than 2% of 69	0.611	PASS
127	40 - 60% of 198	55.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.89	PASS
275	10 - 30% of 198	22.7	PASS
365	1 - 200% of 198	2.18	PASS
441	0.001 - 100% of 443	63.6	PASS
442	40 - 200% of 198	46.2	PASS
443	17 - 23% of 442	21.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/13/11
Instrument ID:	MS-BNA3	Injection Time:	16:45
Sequence:	1J28710	Lab Sample ID:	1J28710-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	45.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	53	PASS
70	Less than 2% of 69	0.499	PASS
127	40 - 60% of 198	49.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.41	PASS
275	10 - 30% of 198	22.6	PASS
365	1 - 200% of 198	2.61	PASS
441	0.001 - 100% of 443	67.9	PASS
442	40 - 200% of 198	49.2	PASS
443	17 - 23% of 442	21.1	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25701	Instrument:	MS-BNA1
Calibration:	1257001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25701-TUN1	SEQ-TUN1.D	09/10/11 16:29
Cal Standard	1I25701-CAL1	SEQ-CAL1.D	09/10/11 16:55
Cal Standard	1I25701-CAL2	SEQ-CAL2.D	09/10/11 17:29
Cal Standard	1I25701-CAL3	SEQ-CAL3.D	09/10/11 18:03
Cal Standard	1I25701-CAL4	SEQ-CAL4.D	09/10/11 18:37
Cal Standard	1I25701-CAL5	SEQ-CAL5.D	09/10/11 19:11
Cal Standard	1I25701-CAL6	SEQ-CAL6.D	09/10/11 19:45
Cal Standard	1I25701-CAL7	SEQ-CAL7.D	09/10/11 20:19
Cal Standard	1I25701-CAL8	SEQ-CAL8.D	09/10/11 20:53
Cal Standard	1I25701-CAL9	SEQ-CAL9.D	09/10/11 21:27
Initial Cal Check	1I25701-ICV1	SEQ-ICV1.D	09/10/11 22:40
MS Tune	1I25701-TUN2	SEQ-TUN2.D	09/13/11 15:01
Initial Cal Check	1I25701-ICV2	SEQ-ICV2.D	09/13/11 15:28

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27711	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J27711-TUN1	SEQ-TUN1.D	10/03/11 14:50
Calibration Check	1J27711-CCV1	SEQ-CCV1.D	10/03/11 15:18
LCS	1I22002-BS1	I22002L1.D	10/03/11 18:56

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27903	Instrument:	MS-BNA1
Calibration:	1257001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J27903-TUN1	SEQ-TUN1.D	10/05/11 08:24
Calibration Check	1J27903-CCV1	SEQ-CCV1.D	10/05/11 08:50
LCS	1J03003-BS1	J03003L1.D	10/05/11 10:07
Blank	1J03003-BLK1	J03003B1.D	10/05/11 10:41
GW0139	1109252-01	0925201.D	10/05/11 11:16
GW0189	1109252-03	0925203.D	10/05/11 11:50
GW0189	1109252-03RE1	0925203D.D	10/05/11 18:43
GW0210	1109252-05	0925205D.D	10/05/11 19:18

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28302	Instrument:	MS-BNA1
Calibration:	1257001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J28302-TUN1	SEQ-TUN1.D	10/06/11 06:59
Calibration Check	1J28302-CCV1	SEQ-CCV1.D	10/06/11 07:26
GW0210	1109252-05RE1	0925205D.D	10/06/11 13:11

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28412	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J28412-TUN1	SEQ-TUN1.D	10/10/11 19:46
Calibration Check	1J28412-CCV1	SEQ-CCV1.D	10/10/11 20:18
Calibration Check	1J28412-CCV2	SEQ-CCV2.D	10/10/11 21:06
Blank	1I22002-BLK1	I22002B1.D	10/10/11 22:28

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28614	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J28614-TUN1	SEQ-TUN1.D	10/12/11 13:23
Calibration Check	1J28614-CCV1	SEQ-CCV1.D	10/12/11 13:53
Calibration Check	1J28614-CCV2	SEQ-CCV2.D	10/12/11 14:36
GW0134	1109164-01	0916401D.D	10/13/11 00:03
GW0135	1109164-03	0916403D.D	10/13/11 00:43
GW0138	1109164-05	0916405D.D	10/13/11 01:22

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28710	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J28710-TUN1	SEQ-TUN1.D	10/13/11 16:45
Calibration Check	1J28710-CCV1	SEQ-CCV1.D	10/13/11 17:13
Calibration Check	1J28710-CCV2	SEQ-CCV2.D	10/13/11 18:05
GW0138	1109164-05RE1	916405D2.D	10/13/11 20:45

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27711	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J27711-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/03/11 15:18			
1,4-Dichlorobenzene-d4	339508	6.846	473419	6.389	72	50 - 200	0.4570	+/-0.50	
Naphthalene-d8	1249552	8.448	1697246	8.029	74	50 - 200	0.4190	+/-0.50	
Acenaphthene-d10	720750	10.676	970176	10.251	74	50 - 200	0.4250	+/-0.50	
Phenanthrene-d10	1258050	12.562	1609148	12.094	78	50 - 200	0.4680	+/-0.50	
Chrysene-d12	1233881	16.948	1722869	16.261	72	50 - 200	0.6870	+/-0.50	
Perylene-d12	1219218	19.843	1702026	19.012	72	50 - 200	0.8310	+/-0.50	
LCS (1I22002-BS1)			Lab File ID: I22002L1.D			Analyzed: 10/03/11 18:56			
1,4-Dichlorobenzene-d4	310904	6.846	339508	6.846	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1208928	8.449	1249552	8.448	97	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	692995	10.671	720750	10.676	96	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1181812	12.557	1258050	12.562	94	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1215021	16.943	1233881	16.948	98	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1202403	19.833	1219218	19.843	99	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J27903-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/05/11 08:50			
1,4-Dichlorobenzene-d4	734656	6.707	644422	6.972	114	50 - 200	-0.2650	+/-0.50	
Naphthalene-d8	2286793	8.349	2151545	8.607	106	50 - 200	-0.2580	+/-0.50	
Acenaphthene-d10	1053029	10.554	962798	10.82	109	50 - 200	-0.2660	+/-0.50	
Phenanthrene-d10	1517490	12.385	1465554	12.662	104	50 - 200	-0.2770	+/-0.50	
Chrysene-d12	1034228	16.479	1028903	16.851	101	50 - 200	-0.3720	+/-0.50	
Perylene-d12	803876	19.191	763782	19.591	105	50 - 200	-0.4000	+/-0.50	
LCS (1J03003-BS1)			Lab File ID: J03003L1.D			Analyzed: 10/05/11 10:07			
1,4-Dichlorobenzene-d4	641311	6.709	734656	6.707	87	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	1978656	8.341	2286793	8.349	87	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	764480	10.55	1053029	10.554	73	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1211622	12.387	1517490	12.385	80	50 - 200	0.0020	+/-0.50	
Chrysene-d12	748358	16.473	1034228	16.479	72	50 - 200	-0.0060	+/-0.50	
Perylene-d12	490527	19.187	803876	19.191	61	50 - 200	-0.0040	+/-0.50	
Blank (1J03003-BLK1)			Lab File ID: J03003B1.D			Analyzed: 10/05/11 10:41			
1,4-Dichlorobenzene-d4	755996	6.707	734656	6.707	103	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2225675	8.343	2286793	8.349	97	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1072185	10.547	1053029	10.554	102	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	1552959	12.383	1517490	12.385	102	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1080589	16.468	1034228	16.479	104	50 - 200	-0.0110	+/-0.50	
Perylene-d12	847455	19.183	803876	19.191	105	50 - 200	-0.0080	+/-0.50	
GW0139 (1109252-01)			Lab File ID: 0925201.D			Analyzed: 10/05/11 11:16			
1,4-Dichlorobenzene-d4	779447	6.711	734656	6.707	106	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2070835	8.362	2286793	8.349	91	50 - 200	0.0130	+/-0.50	
Acenaphthene-d10	1038266	10.568	1053029	10.554	99	50 - 200	0.0140	+/-0.50	
Phenanthrene-d10	1469304	12.392	1517490	12.385	97	50 - 200	0.0070	+/-0.50	
Chrysene-d12	824495	16.467	1034228	16.479	80	50 - 200	-0.0120	+/-0.50	
Perylene-d12	596544	19.185	803876	19.191	74	50 - 200	-0.0060	+/-0.50	
GW0189 (1109252-03)			Lab File ID: 0925203.D			Analyzed: 10/05/11 11:50			
1,4-Dichlorobenzene-d4	592906	6.721	734656	6.707	81	50 - 200	0.0140	+/-0.50	
Naphthalene-d8	1661379	8.375	2286793	8.349	73	50 - 200	0.0260	+/-0.50	
Acenaphthene-d10	1517202	10.572	1053029	10.554	144	50 - 200	0.0180	+/-0.50	
Phenanthrene-d10	1640746	12.4	1517490	12.385	108	50 - 200	0.0150	+/-0.50	
Chrysene-d12	1295297	16.477	1034228	16.479	125	50 - 200	-0.0020	+/-0.50	
Perylene-d12	907369	19.194	803876	19.191	113	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0189 (1109252-03RE1)			Lab File ID: 0925203D.D			Analyzed: 10/05/11 18:43			
1,4-Dichlorobenzene-d4	744890	6.709	734656	6.707	101	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2518987	8.342	2286793	8.349	110	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1165626	10.555	1053029	10.554	111	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1597973	12.391	1517490	12.385	105	50 - 200	0.0060	+/-0.50	
Chrysene-d12	851869	16.47	1034228	16.479	82	50 - 200	-0.0090	+/-0.50	
Perylene-d12	588903	19.191	803876	19.191	73	50 - 200	0.0000	+/-0.50	
GW0210 (1109252-05)			Lab File ID: 0925205D.D			Analyzed: 10/05/11 19:18			
1,4-Dichlorobenzene-d4	816750	6.708	734656	6.707	111	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2783908	8.344	2286793	8.349	122	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1281454	10.554	1053029	10.554	122	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1823022	12.383	1517490	12.385	120	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1152732	16.476	1034228	16.479	111	50 - 200	-0.0030	+/-0.50	
Perylene-d12	865197	19.186	803876	19.191	108	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28302	Instrument:	MS-BNA1
		Calibration:	1257001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J28302-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/06/11 07:26			
1,4-Dichlorobenzene-d4	1085028	6.711	644422	6.972	168	50 - 200	-0.2610	+/-0.50	
Naphthalene-d8	3462552	8.345	2151545	8.607	161	50 - 200	-0.2620	+/-0.50	
Acenaphthene-d10	1679783	10.555	962798	10.82	174	50 - 200	-0.2650	+/-0.50	
Phenanthrene-d10	2262409	12.393	1465554	12.662	154	50 - 200	-0.2690	+/-0.50	
Chrysene-d12	1351246	16.477	1028903	16.851	131	50 - 200	-0.3740	+/-0.50	
Perylene-d12	691949	19.191	763782	19.591	91	50 - 200	-0.4000	+/-0.50	
GW0210 (1109252-05RE1)			Lab File ID: 0925205D.D			Analyzed: 10/06/11 13:11			
1,4-Dichlorobenzene-d4	843570	6.701	1085028	6.711	78	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	2757124	8.343	3462552	8.345	80	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1232949	10.553	1679783	10.555	73	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1530453	12.384	2262409	12.393	68	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	1062406	16.47	1351246	16.477	79	50 - 200	-0.0070	+/-0.50	
Perylene-d12	713188	19.186	691949	19.191	103	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28412	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J28412-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/10/11 20:18			
1,4-Dichlorobenzene-d4	393784	6.862	473419	6.389	83	50 - 200	0.4730	+/-0.50	
Naphthalene-d8	1393721	8.47	1697246	8.029	82	50 - 200	0.4410	+/-0.50	
Acenaphthene-d10	808039	10.698	970176	10.251	83	50 - 200	0.4470	+/-0.50	
Phenanthrene-d10	1477069	12.583	1609148	12.094	92	50 - 200	0.4890	+/-0.50	
Chrysene-d12	1504527	16.975	1722869	16.261	87	50 - 200	0.7140	+/-0.50	
Perylene-d12	1417860	19.875	1702026	19.012	83	50 - 200	0.8630	+/-0.50	
Calibration Check (1J28412-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/10/11 21:06			
1,4-Dichlorobenzene-d4	324161	6.858	393784	6.862	82	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1122799	8.46	1393721	8.47	81	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	644747	10.688	808039	10.698	80	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1193297	12.574	1477069	12.583	81	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	1241031	16.954	1504527	16.975	82	50 - 200	-0.0210	+/-0.50	
Perylene-d12	1209263	19.855	1417860	19.875	85	50 - 200	-0.0200	+/-0.50	
Blank (1I22002-BLK1)			Lab File ID: I22002B1.D			Analyzed: 10/10/11 22:28			
1,4-Dichlorobenzene-d4	477533	6.859	393784	6.862	121	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1661774	8.462	1393721	8.47	119	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	964207	10.689	808039	10.698	119	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1680421	12.575	1477069	12.583	114	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1825641	16.956	1504527	16.975	121	50 - 200	-0.0190	+/-0.50	
Perylene-d12	1794839	19.867	1417860	19.875	127	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28614	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J28614-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/12/11 13:53			
1,4-Dichlorobenzene-d4	461366	6.871	473419	6.389	97	50 - 200	0.4820	+/-0.50	
Naphthalene-d8	1534361	8.479	1697246	8.029	90	50 - 200	0.4500	+/-0.50	
Acenaphthene-d10	914300	10.712	970176	10.251	94	50 - 200	0.4610	+/-0.50	
Phenanthrene-d10	1684582	12.598	1609148	12.094	105	50 - 200	0.5040	+/-0.50	
Chrysene-d12	1710768	16.989	1722869	16.261	99	50 - 200	0.7280	+/-0.50	
Perylene-d12	1551492	19.895	1702026	19.012	91	50 - 200	0.8830	+/-0.50	
Calibration Check (1J28614-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/12/11 14:36			
1,4-Dichlorobenzene-d4	712918	6.872	461366	6.871	155	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2463307	8.48	1534361	8.479	161	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1461323	10.708	914300	10.712	160	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	2643596	12.599	1684582	12.598	157	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2634498	16.985	1710768	16.989	154	50 - 200	-0.0040	+/-0.50	
Perylene-d12	2538674	19.896	1551492	19.895	164	50 - 200	0.0010	+/-0.50	
GW0134 (1109164-01)			Lab File ID: 0916401D.D			Analyzed: 10/13/11 00:03			
1,4-Dichlorobenzene-d4	345982	6.883	461366	6.871	75	50 - 200	0.0120	+/-0.50	
Naphthalene-d8	1289017	8.501	1534361	8.479	84	50 - 200	0.0220	+/-0.50	
Acenaphthene-d10	765316	10.74	914300	10.712	84	50 - 200	0.0280	+/-0.50	
Phenanthrene-d10	1425715	12.631	1684582	12.598	85	50 - 200	0.0330	+/-0.50	
Chrysene-d12	1336141	17.049	1710768	16.989	78	50 - 200	0.0600	+/-0.50	
Perylene-d12	1030383	19.998	1551492	19.895	66	50 - 200	0.1030	+/-0.50	
GW0135 (1109164-03)			Lab File ID: 0916403D.D			Analyzed: 10/13/11 00:43			
1,4-Dichlorobenzene-d4	345993	6.882	461366	6.871	75	50 - 200	0.0110	+/-0.50	
Naphthalene-d8	1310795	8.501	1534361	8.479	85	50 - 200	0.0220	+/-0.50	
Acenaphthene-d10	762327	10.739	914300	10.712	83	50 - 200	0.0270	+/-0.50	
Phenanthrene-d10	1450965	12.631	1684582	12.598	86	50 - 200	0.0330	+/-0.50	
Chrysene-d12	1357440	17.049	1710768	16.989	79	50 - 200	0.0600	+/-0.50	
Perylene-d12	942953	19.992	1551492	19.895	61	50 - 200	0.0970	+/-0.50	
GW0138 (1109164-05)			Lab File ID: 0916405D.D			Analyzed: 10/13/11 01:22			
1,4-Dichlorobenzene-d4	303350	6.877	461366	6.871	66	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	1177196	8.496	1534361	8.479	77	50 - 200	0.0170	+/-0.50	
Acenaphthene-d10	654821	10.723	914300	10.712	72	50 - 200	0.0110	+/-0.50	
Phenanthrene-d10	1263078	12.62	1684582	12.598	75	50 - 200	0.0220	+/-0.50	
Chrysene-d12	1254770	17.033	1710768	16.989	73	50 - 200	0.0440	+/-0.50	
Perylene-d12	961320	19.976	1551492	19.895	62	50 - 200	0.0810	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28710	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J28710-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/13/11 17:13			
1,4-Dichlorobenzene-d4	406756	6.867	473419	6.389	86	50 - 200	0.4780	+/-0.50	
Naphthalene-d8	1362209	8.48	1697246	8.029	80	50 - 200	0.4510	+/-0.50	
Acenaphthene-d10	843890	10.708	970176	10.251	87	50 - 200	0.4570	+/-0.50	
Phenanthrene-d10	1488086	12.594	1609148	12.094	92	50 - 200	0.5000	+/-0.50	
Chrysene-d12	1576514	16.99	1722869	16.261	92	50 - 200	0.7290	+/-0.50	
Perylene-d12	1407436	19.896	1702026	19.012	83	50 - 200	0.8840	+/-0.50	
Calibration Check (1J28710-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/13/11 18:05			
1,4-Dichlorobenzene-d4	345258	6.872	406756	6.867	85	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	1211340	8.48	1362209	8.48	89	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	755645	10.708	843890	10.708	90	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1321317	12.594	1488086	12.594	89	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1405628	16.985	1576514	16.99	89	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1281053	19.897	1407436	19.896	91	50 - 200	0.0010	+/-0.50	
GW0138 (1109164-05RE1)			Lab File ID: 916405D2.D			Analyzed: 10/13/11 20:45			
1,4-Dichlorobenzene-d4	280816	6.869	406756	6.867	69	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	935974	8.477	1362209	8.48	69	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	562618	10.704	843890	10.708	67	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	978921	12.59	1488086	12.594	66	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	1144046	16.976	1576514	16.99	73	50 - 200	-0.0140	+/-0.50	
Perylene-d12	1052580	19.888	1407436	19.896	75	50 - 200	-0.0080	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974255	60	2.113941
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735506	40	0.2647946	50	0.2615824	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617164	10	0.8673336	20	0.9412286	40	0.8081919	50	0.8346687	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469079	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539724	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178277
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019166	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147531	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1236001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

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	1.291838	10	1.2633	20	1.265434	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523559	40	1.3491	50	1.379529	60	1.434977
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.384137	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235792
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252791
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427944	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.252403	40	0.2278087	50	0.2304763	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782144	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962932
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215084	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013249	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549956	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
3-Methylphenol/4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957
4-Nitroaniline	5	0.3430184	10	0.3360742	20	0.3479662	40	0.3116399	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121726	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493317	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896114	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.2297189	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591354	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729038
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679836	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866966	40	0.6961461	50	0.7143354	60	0.7532491
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132208	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189466

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	1.070429	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086366	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159518								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983805	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	1.115859	100	1.111806								
1,4-Dichlorobenzene	80	1.392333	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208455	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.801643	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617697	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.73083								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	1.25282	100	1.246708								
4-Methylphenol	80	1.25282	100	1.246708								
3-Methylphenol/4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
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	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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	0.412504	60	0.4101254	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
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	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1236001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	4/29/11 17:45	4/30/11 1:58

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	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
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)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288297	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.808313	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.862294	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654446	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890508	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20773	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157595	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400766	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008035	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492853	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.038149	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185734	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697976	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755142	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1236001	Instrument:	MS-BNA3		
Matrix:	Water	Calibration Dates:	4/29/11 17:45	4/30/11 1:58	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.467	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.641037	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326679	7.594375	0.1603634			15	
Dimethyl phthalate	1.24444	5.685732	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453443	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449692	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.73062	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748592	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.012161	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.186857	4.354208	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3749749	6.237497	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780522	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161856	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83851	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	
4-Nitroaniline	0.3272887	5.141507	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120651	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241441	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033426	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409371	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277093	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444734	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940559	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435465	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869354	9.329125	9.747652E-02			15	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1257001
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/10/11 16:55 9/10/11 21:27

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
3,3'-Dichlorobenzidine	5	0.2765937	10	0.3591035	20	0.3681972	40	0.3690805	50	0.4005189	60	0.4010792
Acenaphthene	5	1.253522	10	1.206302	20	1.25895	40	1.291044	50	1.16693	60	1.190615
Acenaphthylene	5	1.723144	10	2.041578	20	1.845324	40	1.783262	50	1.741059	60	1.844693
Acetophenone	5	1.758022	10	1.915831	20	1.638468	40	1.415585	50	1.625036	60	1.46674
Aniline	5	1.724911	10	1.957254	20	1.576385	40	1.6606	50	1.749156	60	1.663546
Anthracene	5	1.033788	10	1.316707	20	1.094874	40	1.042717	50	0.982979	60	1.120186
Atrazine	5	0.202838	10	0.2248304	20	0.2210561	40	0.1976665	50	0.1837201	60	0.1797618
Benzaldehyde	5	0.8523933	10	0.9935928	20	0.7316149	40	0.8012218	50	0.8193694	60	0.6463485
Benzidine	5	0.4238351	10	0.4859271	20	0.5394329	40	0.5857219	50	0.5117475	60	0.4990704
Benzo(a)anthracene	5	1.04275	10	1.255395	20	1.20398	40	1.213164	50	1.2495	60	1.242613
Benzo(a)pyrene	5	0.9179211	10	1.046195	20	1.160181	40	1.120785	50	1.095661	60	1.088656
Benzo(b)fluoranthene	5	1.029667	10	1.127974	20	1.20282	40	1.288732	50	1.22798	60	1.188228
Benzo(g,h,i)perylene	5	0.6647747	10	0.8275675	20	0.8268573	40	0.8846595	50	0.8540973	60	0.8584052
Benzoic acid	5	0.1610307	10	0.1848476	20	0.2023344	40	0.2537321	50	0.2553058	60	0.2584887
Benzo(k)fluoranthene	5	1.094325	10	1.194478	20	1.196844	40	1.251737	50	1.238451	60	1.147959
Benzyl alcohol	5	0.7593303	10	0.8629323	20	0.785341	40	0.7511491	50	0.8056209	60	0.8145736
1,1-Biphenyl	5	1.520155	10	1.603576	20	1.648798	40	1.574161	50	1.340824	60	1.343569
4-Bromophenyl-phenylether	5	0.2081429	10	0.2174275	20	0.2389046	40	0.2095385	50	0.2131482	60	0.2355122
Butylbenzylphthalate	5	0.8328724	10	0.9208578	20	0.9806272	40	1.020188	50	0.9442628	60	0.980521
Caprolactam	5	0.1054917	10	0.1162418	20	0.1007897	40	0.1088241	50	0.1113944	60	0.1154222
Carbazole	5	1.030378	10	1.127423	20	1.058225	40	0.9971308	50	1.025539	60	1.133249
4-Chloro-3-methylphenol	5	0.2576136	10	0.2604081	20	0.2455231	40	0.2610659	50	0.2715312	60	0.2567078
4-Chloroaniline	5	0.5085599	10	0.5104554	20	0.4299194	40	0.4414935	50	0.4214911	60	0.3825808
Bis(2-chloroethoxy)methane	5	0.458296	10	0.4190845	20	0.3724352	40	0.4234906	50	0.3769218	60	0.3951356
Bis(2-chloroethyl)ether	5	1.266455	10	1.437888	20	1.210565	40	1.253286	50	1.298796	60	1.278871
2,2'-Oxybis-1-chloropropane	5	1.8112	10	2.049536	20	1.755029	40	1.801784	50	1.90027	60	1.722658
2-Chloronaphthalene	5	1.327396	10	1.419998	20	1.244863	40	1.274397	50	1.105185	60	1.215939
2-Chlorophenol	5	1.515091	10	1.744406	20	1.455611	40	1.422791	50	1.556357	60	1.421963
4-Chlorophenyl phenyl ether	5	0.4844961	10	0.578091	20	0.5061073	40	0.5563181	50	0.4630671	60	0.4966114
Chrysene	5	1.157751	10	1.219709	20	1.1636	40	1.122197	50	1.125595	60	1.216993
Dibenz(a,h)anthracene	5	0.6638438	10	0.7120223	20	0.728146	40	0.8478964	50	0.8773235	60	0.7911652

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11_16:55 9/10/11_21:27

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
Dibenzofuran	5	1.654562	10	1.613972	20	1.5209	40	1.620809	50	1.396493	60	1.555416
Di-n-butylphthalate	5	1.437169	10	1.576609	20	1.632225	40	1.562995	50	1.534256	60	1.65395
1,4-Dichlorobenzene	5	1.668556	10	1.73016	20	1.543847	40	1.604528	50	1.65125	60	1.579411
1,3-Dichlorobenzene	5	1.687683	10	1.890514	20	1.509731	40	1.548552	50	1.690746	60	1.576822
1,2-Dichlorobenzene	5	1.610965	10	1.727455	20	1.621033	40	1.57031	50	1.47446	60	1.570651
2,6-Dichlorophenol	5	0.3305166	10	0.3255433	20	0.2854949	40	0.3076464	50	0.3167549	60	0.2831726
2,4-Dichlorophenol	5	0.3575056	10	0.3465531	20	0.3036057	40	0.3174635	50	0.2903621	60	0.302912
Diethylphthalate	5	1.442949	10	1.510012	20	1.460975	40	1.514318	50	1.49234	60	1.443097
2,4-Dimethylphenol	5	0.3477561	10	0.3258219	20	0.3003753	40	0.317081	50	0.344486	60	0.2951597
Dimethyl phthalate	5	1.491187	10	1.527115	20	1.43968	40	1.406937	50	1.31959	60	1.360078
4,6-Dinitro-2-methylphenol	5	0.1076884	10	0.1474486	20	0.1721278	40	0.1997163	50	0.1869435	60	0.2040181
2,4-Dinitrophenol	5	0.1108904	10	0.1424831	20	0.1719545	40	0.227058	50	0.2153383	60	0.2488056
2,4-Dinitrotoluene	5	0.4395194	10	0.4477005	20	0.4454295	40	0.4794931	50	0.4496988	60	0.474272
2,6-Dinitrotoluene	5	0.3892686	10	0.3572156	20	0.3860348	40	0.3581748	50	0.3748284	60	0.363136
Di-n-octylphthalate	5	1.866264	10	2.01372	20	2.257873	40	2.829522	50	2.529843	60	2.548569
1,4-Dioxane	5	0.577055	10	0.5535138	20	0.5472736	40	0.521683	50	0.4935159	60	~~0.3392503~~
1,2-Diphenylhydrazine	5	0.7029666	10	0.7401211	20	0.7380437	40	0.741858	50	0.7460217	60	0.8366615
Bis(2-ethylhexyl)phthalate	5	1.101055	10	1.239924	20	1.352049	40	1.430737	50	1.338864	60	1.483097
Fluoranthene	5	1.043038	10	1.160236	20	1.040213	40	0.9926983	50	0.9664456	60	1.096828
Fluorene	5	1.094411	10	1.393145	20	1.187549	40	1.276953	50	1.0475	60	1.133402
2-Fluorobiphenyl	5	1.473991	10	1.345399	20	1.423783	40	1.3053	50	1.209567	60	1.297022
2-Fluorophenol	5	1.482346	10	1.561194	20	1.320236	40	1.391469	50	1.431322	60	1.37364
Hexachlorobenzene	5	0.2527021	10	0.2667261	20	0.2682445	40	0.247591	50	0.2530574	60	0.2724392
Hexachlorobutadiene	5	0.2149597	10	0.2024588	20	0.1857575	40	0.2048881	50	0.1932247	60	0.1834199
Hexachlorocyclopentadiene	5	0.294644	10	0.3517376	20	0.3477564	40	0.3719814	50	0.3307146	60	0.3827502
Hexachloroethane	5	0.7523456	10	0.7929738	20	0.6777919	40	0.7004261	50	0.7588626	60	0.7292762
Indeno(1,2,3-cd)pyrene	5	0.5989416	10	0.7736439	20	0.7714515	40	0.8414679	50	0.8501015	60	0.830473
Isophorone	5	0.6156039	10	0.5933154	20	0.5152563	40	0.5405376	50	0.571318	60	0.6022496
1-Methylnaphthalene	5	0.5081641	10	0.5125537	20	0.4388774	40	0.4563614	50	0.4852649	60	0.4469304
2-Methylnaphthalene	5	0.5433458	10	0.5240158	20	0.5074089	40	0.4964651	50	0.5270547	60	0.4486591
2-Methylphenol	5	1.036805	10	1.251204	20	1.076494	40	1.101319	50	1.219829	60	1.083216

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_029	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1257001		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	9/10/11_16:55	9/10/11_21:27

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	1.174586	10	1.265067	20	1.10926	40	1.010085	50	1.044199	60	1.048865
4-Methylphenol	5	1.174586	10	1.265067	20	1.10926	40	1.010085	50	1.044199	60	1.048865
3-Methylphenol/4-Methylphenol	5	1.174586	10	1.265067	20	1.10926	40	1.010085	50	1.044199	60	1.048865
Naphthalene	5	1.328734	10	1.259045	20	1.093715	40	1.12849	50	1.141349	60	1.016975
4-Nitroaniline	5	0.3435386	10	0.4109632	20	0.4192578	40	0.4554694	50	0.4417507	60	0.4453092
3-Nitroaniline	5	0.422456	10	0.4667867	20	0.465831	40	0.4474594	50	0.4447217	60	0.4940349
2-Nitroaniline	5	0.2446325	10	0.2685647	20	0.2505705	40	0.2873843	50	0.2594468	60	0.2833674
Nitrobenzene	5	0.3031585	10	0.2964663	20	0.2646955	40	0.31066	50	0.2853439	60	0.2853786
Nitrobenzene-d5	5	0.3122097	10	0.31247	20	0.2779683	40	0.3309413	50	0.3133756	60	0.3099061
4-Nitrophenol	5	0.13969	10	0.1317368	20	0.1478699	40	0.1738007	50	0.1635334	60	0.1902387
2-Nitrophenol	5	0.2295171	10	0.2282452	20	0.2089967	40	0.2419354	50	0.2291767	60	0.2238339
N-Nitrosodimethylamine	5	0.528809	10	0.5362231	20	0.5141605	40	0.6225687	50	0.6497669	60	0.6142275
N-Nitrosodiphenylamine	5	0.6135924	10	0.6901091	20	0.646579	40	0.6140975	50	0.6169803	60	0.720555
N-Nitroso-di-n-propylamine	5	0.6626134	10	0.7118208	20	0.6404786	40	0.5666458	50	0.6776173	60	0.6327267
Pentachlorophenol	5	0.1665003	10	0.167764	20	0.1932138	40	0.1956966	50	0.1925995	60	0.2077664
Phenanthrene	5	1.178634	10	1.218754	20	1.088526	40	1.041595	50	0.9348914	60	1.100556
Phenol	5	1.432751	10	1.701147	20	1.429532	40	1.513386	50	1.549217	60	1.29893
Phenol-d6	5	1.67904	10	1.760757	20	1.517384	40	1.663034	50	1.652776	60	1.554059
Pyrene	5	1.425487	10	1.365409	20	1.539471	40	1.384537	50	1.426181	60	1.428015
Pyridine	5	1.221919	10	1.38833	20	1.16323	40	1.260711	50	1.222867	60	1.206556
Terphenyl-d14	5	0.6925277	10	0.8002669	20	0.7752649	40	0.8218326	50	0.7309527	60	0.803636
1,2,4,5-Tetrachlorobenzene	5	0.2802882	10	0.3118009	20	0.2709912	40	0.2763516	50	0.2706276	60	0.2641992
2,3,4,6-Tetrachlorophenol	5	0.3308008	10	0.3291164	20	0.32645	40	0.3574904	50	0.3033511	60	0.3447624
2,4,6-Tribromophenol	5	0.1404527	10	0.1452919	20	0.1552839	40	0.1634426	50	0.1538977	60	0.1643005
1,2,4-Trichlorobenzene	5	0.3837072	10	0.3059514	20	0.2995534	40	0.3028145	50	0.3270507	60	0.2873434
2,4,6-Trichlorophenol	5	0.3576148	10	0.4286264	20	0.370546	40	0.462637	50	0.3719431	60	0.3768957
2,4,5-Trichlorophenol	5	0.3739425	10	0.41865	20	0.3845992	40	0.4457664	50	0.3809884	60	0.4281839

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

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
3,3'-Dichlorobenzidine	80	0.4070965	100	0.3444226								
Acenaphthene	80	1.332476	100	1.060561								
Acenaphthylene	80	1.924045	100	1.606731								
Acetophenone	80	~~1.178579~~	100	~~1.317486~~								
Aniline	80	1.599967	100	1.51741								
Anthracene	80	0.9519004	100	0.9423928								
Atrazine	80	~~0.1312173~~	100	~~0.1387201~~								
Benzaldehyde	80	~~0.5268026~~	100	~~0.467966~~								
Benzidine	80	~~0.3594153~~	100	~~0.2714703~~								
Benzo(a)anthracene	80	1.255031	100	1.227372								
Benzo(a)pyrene	80	1.127458	100	1.095661								
Benzo(b)fluoranthene	80	1.293326	100	1.218633								
Benzo(g,h,i)perylene	80	0.7126754	100	0.8400355								
Benzoic acid	80	0.2743328	100	0.2811543								
Benzo(k)fluoranthene	80	1.309306	100	1.320129								
Benzyl alcohol	80	0.7138551	100	0.7861788								
1,1-Biphenyl	80	1.544109	100	1.304474								
4-Bromophenyl-phenylether	80	0.2077947	100	0.2207034								
Butylbenzylphthalate	80	1.059084	100	1.102484								
Caprolactam	80	0.1318029	100									
Carbazole	80	0.9342418	100	1.076922								
4-Chloro-3-methylphenol	80	0.2803836	100	0.2420408								
4-Chloroaniline	80	0.3738367	100	0.3398619								
Bis(2-chloroethoxy)methane	80	0.3993775	100	0.4112802								
Bis(2-chloroethyl)ether	80	1.259671	100	1.268297								
2,2'-Oxybis-1-chloropropane	80	1.490494	100	1.750242								
2-Chloronaphthalene	80	1.336319	100	1.097725								
2-Chlorophenol	80	1.391108	100	1.236679								
4-Chlorophenyl phenyl ether	80	0.564188	100	0.4537004								
Chrysene	80	1.211279	100	1.135603								
Dibenz(a,h)anthracene	80	0.7430608	100	0.8730546								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

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
Dibenzofuran	80	1.687892	100	1.322755								
Di-n-butylphthalate	80	1.414877	100	1.489049								
1,4-Dichlorobenzene	80	1.417496	100	1.447155								
1,3-Dichlorobenzene	80	1.33735	100	1.46778								
1,2-Dichlorobenzene	80	1.438576	100	1.531086								
2,6-Dichlorophenol	80	0.2845493	100	0.2588119								
2,4-Dichlorophenol	80	0.3054094	100	0.3114821								
Diethylphthalate	80	1.491923	100	1.358285								
2,4-Dimethylphenol	80	0.3372433	100	0.3244942								
Dimethyl phthalate	80	1.468374	100	1.248652								
4,6-Dinitro-2-methylphenol	80	0.1965102	100	0.211339								
2,4-Dinitrophenol	80	0.2954728	100	~~0.2509406~~								
2,4-Dinitrotoluene	80	0.5508348	100	0.4354016								
2,6-Dinitrotoluene	80	0.4702265	100	0.3680973								
Di-n-octylphthalate	80	2.772625	100	2.82337								
1,4-Dioxane	80	~~0.9857528~~	100	~~0.4272239~~								
1,2-Diphenylhydrazine	80	0.7686142	100	0.7422181								
Bis(2-ethylhexyl)phthalate	80	1.524695	100	1.428241								
Fluoranthene	80	0.8509739	100	0.9424213								
Fluorene	80	1.216434	100	1.039865								
2-Fluorobiphenyl	80	1.478656	100	1.143107								
2-Fluorophenol	80	1.313756	100	1.350565	200	1.053024						
Hexachlorobenzene	80	0.2417735	100	0.2628742								
Hexachlorobutadiene	80	0.1839426	100	0.1960631								
Hexachlorocyclopentadiene	80	0.4117793	100	0.3285772								
Hexachloroethane	80	0.6479536	100	0.7262751								
Indeno(1,2,3-cd)pyrene	80	0.7075872	100	0.8498765								
Isophorone	80	0.6190702	100	0.5275148								
1-Methylnaphthalene	80	0.4688323	100	0.409534								
2-Methylnaphthalene	80	0.4777927	100	0.4089162								
2-Methylphenol	80	1.001809	100	1.107214								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

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	0.8544883	100	0.9579631								
4-Methylphenol	80	0.8544883	100	0.9579631								
3-Methylphenol/4-Methylphenol	80	0.8544883	100	0.9579631								
Naphthalene	80	0.9103076	100	0.8948393								
4-Nitroaniline	80	0.5289593	100	0.4305257								
3-Nitroaniline	80	0.505039	100	0.4231225								
2-Nitroaniline	80	0.3463494	100	0.2873848								
Nitrobenzene	80	0.2787216	100	0.2966583								
Nitrobenzene-d5	80	0.3284857	100	0.3218329								
4-Nitrophenol	80	~~0.2144948~~	100	~~0.1818078~~								
2-Nitrophenol	80	0.2596093	100	0.2315326								
N-Nitrosodimethylamine	80	0.6064137	100	0.6920768								
N-Nitrosodiphenylamine	80	0.6089421	100	0.6280442								
N-Nitroso-di-n-propylamine	80	0.5402654	100	0.5995647								
Pentachlorophenol	80	0.1712121	100	0.1999055								
Phenanthrene	80	0.9918138	100	0.9239188								
Phenol	80	1.428658	100	1.42999								
Phenol-d6	80	1.616419	100	1.598738	200	1.185591						
Pyrene	80	1.495958	100	1.55802								
Pyridine	80	0.989204	100	1.26167								
Terphenyl-d14	80	0.9127464	100	0.9356734								
1,2,4,5-Tetrachlorobenzene	80	0.2721473	100	0.248434								
2,3,4,6-Tetrachlorophenol	80	0.3929412	100	0.3199546								
2,4,6-Tribromophenol	80	0.1419103	100	0.1579801	200	0.1528592						
1,2,4-Trichlorobenzene	80	0.3065798	100	0.2911002								
2,4,6-Trichlorophenol	80	0.4890976	100	0.4019529								
2,4,5-Trichlorophenol	80	0.4813727	100	0.3777783								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3657615	11.61398	16.79425	0.0349288			15	
Acenaphthene	1.22005	6.901354	10.85938	0.0600376			CCC (30)	
Acenaphthylene	1.81373	7.317589	10.64463	6.407281E-02			15	
Acetophenone	1.636614	11.28483	7.485167	8.756375E-02			15	
Aniline	1.681154	8.039873	6.543125	6.285011E-02			15	
Anthracene	1.060693	11.44549	12.7535	6.453642E-02			15	
Atrazine	0.2016455	9.229404	12.288	4.056052E-02			15	
Benzaldehyde	0.8074234	14.50212	6.414333	4.242629E-02			15	
Benzidine	0.5076225	10.67883	14.551	1.434621E-02			15	
Benzo(a)anthracene	1.211226	5.8397	16.82813	3.039245E-02			15	
Benzo(a)pyrene	1.081565	6.839327	19.48587	4.064051E-02			CCC (30)	
Benzo(b)fluoranthene	1.19717	7.199178	18.88037	4.779321E-02			15	
Benzo(g,h,i)perylene	0.8086341	9.568134	22.55463	0.0704086			15	
Benzoic acid	0.2339033	19.1444	8.2885	0.6146899	0.9978808		0.995	
Benzo(k)fluoranthene	1.219154	6.316763	18.93625	0.0525975			15	
Benzyl alcohol	0.7848726	5.74677	7.13825	0.1292875			15	
1,1-Biphenyl	1.484958	9.068812	10.09775	0.0376721			15	
4-Bromophenyl-phenylether	0.2188965	5.571949	12.0955	5.157281E-02			15	
Butylbenzylphthalate	0.9801122	8.561921	15.82075	2.700878E-02			15	
Caprolactam	0.1128524	8.826022	9.155286	0.3783966			15	
Carbazole	1.047889	6.336259	12.95363	3.877578E-02			15	
4-Chloro-3-methylphenol	0.2594093	4.822758	9.30775	0.1030947			CCC (30)	
4-Chloroaniline	0.4260248	14.37427	8.701375	0.1081533			15	
Bis(2-chloroethoxy)methane	0.4070027	6.80256	8.2945	6.873109E-02			15	
Bis(2-chloroethyl)ether	1.284229	5.215956	6.62275	9.158454E-02			15	
2,2'-Oxybis-1-chloropropane	1.785152	8.906661	7.314125	0.0833014			15	
2-Chloronaphthalene	1.252728	8.961521	10.12563	5.479706E-02			15	
2-Chlorophenol	1.468001	9.977145	6.689625	6.194925E-02			15	
4-Chlorophenyl phenyl ether	0.5128224	9.285268	11.49162	2.500606E-02			15	
Chrysene	1.169091	3.542724	16.89913	4.095883E-02			15	
Dibenz(a,h)anthracene	0.7795641	10.28853	21.95125	4.987003E-02			15	
Dibenzofuran	1.5466	8.288981	11.07238	0.0685793			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.537641	5.614653	13.41163	2.593919E-02			15	
1,4-Dichlorobenzene	1.5803	6.825025	6.9915	4.017477E-02			CCC (30)	
1,3-Dichlorobenzene	1.588647	10.56224	6.8935	4.423727E-02			15	
1,2-Dichlorobenzene	1.568067	5.752663	7.18425	4.624515E-02			15	
2,6-Dichlorophenol	0.2990612	8.33041	8.706125	5.999107E-02			15	
2,4-Dichlorophenol	0.3169117	7.319496	8.415875	7.826741E-02			CCC (30)	
Diethylphthalate	1.464237	3.491581	11.34687	8.151547E-02			15	
2,4-Dimethylphenol	0.3240522	5.948167	8.157625	7.292536E-02			15	
Dimethyl phthalate	1.407702	6.64562	10.47738	8.585737E-02			15	
4,6-Dinitro-2-methylphenol	0.178224	19.65976	11.55225	8.150049E-02	0.9969059		0.995	
2,4-Dinitrophenol	0.2017147	31.66538	10.88557	6.854064E-02		0.9977751	SPCC (0.05)	
2,4-Dinitrotoluene	0.4652937	8.165545	11.0515	8.135495E-02			15	
2,6-Dinitrotoluene	0.3833728	9.670011	10.5555	8.260715E-02			15	
Di-n-octylphthalate	2.455223	15.17258	18.2215	1.060891E-02	0.9959081		CCC (30)	
1,4-Dioxane	0.5386083	5.94065	3.5022	0.1173749			15	
1,2-Diphenylhydrazine	0.7520631	5.129666	11.68463	4.014904E-02			15	
Bis(2-ethylhexyl)phthalate	1.362333	10.1512	16.93213	1.342509E-02			15	
Fluoranthene	1.011607	9.462898	14.3485	3.340265E-02			CCC (30)	
Fluorene	1.173657	10.31453	11.49888	4.555226E-02			15	
2-Fluorobiphenyl	1.334603	9.081331	9.97225	3.397177E-02			15	
2-Fluorophenol	1.364172	10.35376	5.301556	3.725569E-02			15	
Hexachlorobenzene	0.258176	4.236044	12.1665	3.849317E-02			15	
Hexachlorobutadiene	0.1955893	5.781479	8.78475	4.215739E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3524926	10.29927	9.7055	2.895425E-02			SPCC (0.05)	
Hexachloroethane	0.7232381	6.459682	7.619625	5.413655E-02			15	
Indeno(1,2,3-cd)pyrene	0.7779429	11.31398	21.88412	5.517184E-02			15	
Isophorone	0.5731082	7.123074	8.017875	0.1112196			15	
1-Methylnaphthalene	0.4658148	7.570245	9.634875	3.393566E-02			15	
2-Methylnaphthalene	0.4917073	9.13729	9.5105	2.985221E-02			15	
2-Methylphenol	1.109736	7.690573	7.26775	7.987018E-02			15	
3-Methylphenol	1.058064	12.01303	7.4705	0.1222108			15	
4-Methylphenol	1.058064	12.01303	7.4705	0.1222108			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_029	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1257001		Instrument:	MS-BNA1	
Matrix:	Water		Calibration Dates:	9/10/11 16:55	9/10/11 21:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.058064	12.01303	7.4705	0.1222108			15	
Naphthalene	1.096682	14.00181	8.635375	6.090623E-02			15	
4-Nitroaniline	0.4344717	11.86687	11.51825	0.120674			15	
3-Nitroaniline	0.4586814	6.599001	10.7605	7.804296E-02			15	
2-Nitroaniline	0.2784625	11.4964	10.2475	5.730027E-02			15	
Nitrobenzene	0.2901353	5.03957	7.708	7.692248E-02			15	
Nitrobenzene-d5	0.3133987	5.224007	7.68075	7.321264E-02			15	
4-Nitrophenol	0.1578116	14.01832	10.94267	5.772434E-02			SPCC (0.05)	
2-Nitrophenol	0.2316059	6.286708	8.113375	5.994476E-02			CCC (30)	
N-Nitrosodimethylamine	0.5955308	10.62989	3.81525	9.491339E-02			15	
N-Nitrosodiphenylamine	0.6423624	6.446747	11.6385	6.136556E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.6289666	9.138625	7.489	0.1364515			SPCC (0.05)	
Pentachlorophenol	0.1868323	8.541545	12.40613	3.195651E-02			CCC (30)	
Phenanthrene	1.059836	10.14307	12.68925	3.755502E-02			15	
Phenol	1.472951	7.996695	6.4835	0.1451123			CCC (30)	
Phenol-d6	1.580866	10.40602	6.463889	0.1370529			15	
Pyrene	1.452885	4.853788	14.7075	4.062704E-02			15	
Pyridine	1.214311	9.241393	3.860625	0.2203153			15	
Terphenyl-d14	0.8091126	10.22101	14.95925	3.256362E-02			15	
1,2,4,5-Tetrachlorobenzene	0.274355	6.52968	9.7195	5.396971E-02			15	
2,3,4,6-Tetrachlorophenol	0.3381084	8.087746	11.16075	4.810391E-02			15	
2,4,6-Tribromophenol	0.1528243	5.700446	11.78989	0.0335614			15	
1,2,4-Trichlorobenzene	0.3130126	9.891411	8.53175	4.031596E-02			15	
2,4,6-Trichlorophenol	0.4074142	11.81895	9.859875	5.313493E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4114102	9.453346	9.9045	6.643582E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	50.99	1.110356	1.132237		2.0	20
Acenaphthylene	A	50.00	52.08	1.725208	1.796804		4.1	20
Anthracene	A	50.00	53.21	1.092671	1.162801		6.4	20
Benzo(a)anthracene	A	50.00	53.94	1.119297	1.207582		7.9	20
Benzo(a)pyrene	A	50.00	54.76	1.045862	1.145479		9.5	20
Benzo(b)fluoranthene	A	50.00	53.30	1.093698	1.165866		6.6	20
Benzo(g,h,i)perylene	A	50.00	55.29	1.033139	1.142352		10.6	20
Benzoic acid	A	50.00	56.42	0.2679395	0.302351		12.8	20
Benzo(k)fluoranthene	A	50.00	54.50	1.107729	1.207431		9.0	20
4-Bromophenyl-phenylether	A	50.00	52.91	0.2284778	0.2417889		5.8	20
Butylbenzylphthalate	A	50.00	56.82	0.5129818	0.582953		13.6	20
Carbazole	A	50.00	51.29	1.044381	1.071248		2.6	20
4-Chloro-3-methylphenol	A	50.00	52.69	0.3113523	0.3281338		5.4	20
4-Chloroaniline	A	50.00	50.78	0.4225325	0.4291082		1.6	20
Bis(2-chloroethoxy)methane	A	50.00	54.60	0.4269873	0.4662333		9.2	20
Bis(2-chloroethyl)ether	A	50.00	52.57	1.297842	1.3646		5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.93	1.947114	2.022377		3.9	20
2-Chloronaphthalene	A	50.00	52.76	1.087766	1.147861		5.5	20
2-Chlorophenol	A	50.00	53.41	1.315004	1.404776		6.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.82	0.6233489	0.6461009		3.6	20
Chrysene	A	50.00	53.37	1.047865	1.118417		6.7	20
Dibenz(a,h)anthracene	A	50.00	56.42	1.004478	1.133417		12.8	20
Dibenzofuran	A	50.00	53.17	1.535116	1.632439		6.3	20
Di-n-butylphthalate	A	50.00	52.16	1.182012	1.233187		4.3	20
2,4-Dichlorophenol	A	50.00	52.27	0.3046728	0.3185106		4.5	20
Diethylphthalate	A	50.00	52.18	1.194731	1.246888		4.4	20
2,4-Dimethylphenol	A	50.00	53.80	0.3636609	0.3913226		7.6	20
Dimethyl phthalate	A	50.00	52.08	1.24444	1.296196		4.2	20
2,4-Dinitrotoluene	A	50.00	52.99	0.3929838	0.4165004		6.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.3207071		7.2	20
Di-n-octylphthalate	A	50.00	55.56	1.204345	1.338299		11.1	20
1,2-Diphenylhydrazine	A	50.00	51.69	0.8507103	0.8794004		3.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.80	0.6793074	0.7445394		9.6	20
Fluoranthene	A	50.00	52.70	1.233837	1.300481		5.4	20
Fluorene	A	50.00	52.74	1.337519	1.410746		5.5	20
Hexachlorobenzene	A	50.00	53.53	0.244362	0.2616019		7.1	20
Hexachlorobutadiene	A	50.00	56.62	0.186857	0.2116138		13.2	20
Hexachlorocyclopentadiene	A	50.00	50.51	0.3749749	0.3787812	0.05	1.0	20
Hexachloroethane	A	50.00	53.43	0.5464632	0.5839846		6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.78	1.038008	1.157962		11.6	20
Isophorone	A	50.00	51.26	0.7442763	0.7630284		2.5	20
1-Methylnaphthalene	A	50.00	50.47	0.5872691	0.5928174		0.9	20
2-Methylnaphthalene	A	50.00	52.21	0.5974192	0.6238767		4.4	20
2-Methylphenol	A	50.00	52.67	1.208635	1.273291		5.3	20
3-Methylphenol/4-Methylphenol	A	50.00	51.20	1.268409	1.298786		2.4	20
4-Nitroaniline	A	50.00	53.01	0.3272887	0.3469818		6.0	20
3-Nitroaniline	A	50.00	53.20	0.3230815	0.3437513		6.4	20
2-Nitroaniline	A	50.00	53.86	0.3700237	0.3985975		7.7	20
Nitrobenzene	A	50.00	52.75	0.4107927	0.4333935		5.5	20
4-Nitrophenol	A	50.00	53.70	0.2721678	0.292285	0.05	7.4	20
2-Nitrophenol	A	50.00	53.57	0.1941449	0.2080171		7.1	20
N-Nitrosodiphenylamine	A	50.00	53.24	0.6728889	0.7164793		6.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.25	1.033966	1.12186	0.05	8.5	20
Phenanthrene	A	50.00	53.38	1.075866	1.148675		6.8	20
Phenol	A	50.00	52.06	1.687698	1.757079		4.1	20
Pyrene	A	50.00	54.76	1.163766	1.274472		9.5	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.382004	0.4101383		7.4	20
2,4,5-Trichlorophenol	A	50.00	52.48	0.4142645	0.4348178		5.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorobiphenyl	A	50.00	54.11	1.265417	1.369371		8.2	20
2-Fluorophenol	A	100.0	114.6	1.142171	1.308424		14.6	20
Nitrobenzene-d5	A	50.00	55.94	0.4075494	0.4559688		11.9	20
Terphenyl-d14	A	50.00	54.87	0.7462196	0.8189273		9.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.109869	0.1200227		9.2	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.88	1.801986	1.761675		-2.2	20
Atrazine	A	50.00	50.39	0.2344682	0.2362964		0.8	20
Benzidine	A	50.00	49.05	0.641297	0.6290564		-1.9	20
1,1-Biphenyl	A	50.00	51.20	1.444453	1.479098		2.4	20
Caprolactam	A	50.00	56.58	0.1128421	0.1276823		13.2	20
3,3'-Dichlorobenzidine	A	50.00	52.77	0.4067228	0.4292329		5.5	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV3	Injection Time:	17:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	A	50.00	53.45	0.1454148	0.1554342		6.9	20
2,4-Dinitrophenol	A	50.00	61.89	0.1854397	0.2295477	0.05	23.8	20 *
Pentachlorophenol	A	50.00	56.14	0.1623094	0.1822508		12.3	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	05/02/11
Lab Sample ID:	1E12203-ICV4	Injection Time:	14:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	50.85	1.010105	1.027374		1.7	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/10/11
Lab Sample ID:	1I25701-ICV1	Injection Time:	22:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	47.24	1.22005	1.152612		-5.5	20
Acenaphthylene	A	50.00	49.71	1.81373	1.803288		-0.6	20
Acetophenone	A	50.00	40.56	1.636614	1.327505		-18.9	20
Anthracene	A	50.00	42.43	1.060693	0.9001322		-15.1	20
Atrazine	A	50.00	46.05	0.2016455	0.1857194		-7.9	20
Benzaldehyde	A	50.00	43.90	0.8074234	0.7088936		-12.2	20
Benzo(a)anthracene	A	50.00	46.11	1.211226	1.11709		-7.8	20
Benzo(a)pyrene	A	50.00	47.91	1.081565	1.036249		-4.2	20
Benzo(b)fluoranthene	A	50.00	50.92	1.19717	1.219297		1.8	20
Benzo(g,h,i)perylene	A	50.00	46.22	0.8086341	0.7474806		-7.6	20
Benzoic acid	L	50.00	41.65	0.2339033	0.2149473		-16.7	20
Benzo(k)fluoranthene	A	50.00	47.73	1.219154	1.163794		-4.5	20
1,1-Biphenyl	A	50.00	47.31	1.484958	1.405077		-5.4	20
4-Bromophenyl-phenylether	A	50.00	44.31	0.2188965	0.1939739		-11.4	20
Butylbenzylphthalate	A	50.00	49.72	0.9801122	0.9746325		-0.6	20
Caprolactam	A	50.00	50.38	0.1128524	0.1137137		0.8	20
Carbazole	A	50.00	49.31	1.047889	1.033476		-1.4	20
4-Chloro-3-methylphenol	A	50.00	55.45	0.2594093	0.2876596		10.9	20
4-Chloroaniline	A	50.00	47.05	0.4260248	0.4009177		-5.9	20
Bis(2-chloroethoxy)methane	A	50.00	47.01	0.4070027	0.3826302		-6.0	20
Bis(2-chloroethyl)ether	A	50.00	48.76	1.284229	1.252298		-2.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.30	1.785152	1.724416		-3.4	20
2-Chloronaphthalene	A	50.00	48.92	1.252728	1.225695		-2.2	20
2-Chlorophenol	A	50.00	47.24	1.468001	1.386972		-5.5	20
4-Chlorophenyl phenyl ether	A	50.00	49.98	0.5128224	0.5126259		-0.04	20
Chrysene	A	50.00	46.27	1.169091	1.081807		-7.5	20
Dibenz(a,h)anthracene	A	50.00	45.76	0.7795641	0.7135269		-8.5	20
Dibenzofuran	A	50.00	46.56	1.5466	1.440104		-6.9	20
Di-n-butylphthalate	A	50.00	50.14	1.537641	1.54193		0.3	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/10/11
Lab Sample ID:	1I25701-ICV1	Injection Time:	22:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	51.32	0.3169117	0.3252501		2.6	20
Diethylphthalate	A	50.00	49.32	1.464237	1.444229		-1.4	20
2,4-Dimethylphenol	A	50.00	48.26	0.3240522	0.3128018		-3.5	20
Dimethyl phthalate	A	50.00	51.41	1.407702	1.447295		2.8	20
4,6-Dinitro-2-methylphenol	L	50.00	41.23	0.178224	0.1609085		-17.5	20
2,4-Dinitrophenol	Q	50.00	47.54	0.2017147	0.2134396	0.05	-4.9	20
2,4-Dinitrotoluene	A	50.00	49.21	0.4652937	0.4579799		-1.6	20
2,6-Dinitrotoluene	A	50.00	48.96	0.3833728	0.3753696		-2.1	20
Di-n-octylphthalate	L	50.00	51.29	2.455223	2.754281		2.6	20
1,2-Diphenylhydrazine	A	50.00	49.89	0.7520631	0.7503685		-0.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	47.47	1.362333	1.293379		-5.1	20
Fluoranthene	A	50.00	43.44	1.011607	0.8789396		-13.1	20
Fluorene	A	50.00	48.17	1.173657	1.13068		-3.7	20
Hexachlorobenzene	A	50.00	47.88	0.258176	0.2472172		-4.2	20
Hexachlorobutadiene	A	50.00	47.97	0.1955893	0.1876474		-4.1	20
Hexachlorocyclopentadiene	A	50.00	52.26	0.3524926	0.3684454	0.05	4.5	20
Hexachloroethane	A	50.00	47.87	0.7232381	0.6924717		-4.3	20
Indeno(1,2,3-cd)pyrene	A	50.00	46.99	0.7779429	0.7310602		-6.0	20
Isophorone	A	50.00	49.64	0.5731082	0.56903		-0.7	20
1-Methylnaphthalene	A	50.00	51.85	0.4658148	0.4830789		3.7	20
2-Methylnaphthalene	A	50.00	48.26	0.4917073	0.4746376		-3.5	20
2-Methylphenol	A	50.00	48.99	1.109736	1.087424		-2.0	20
3-Methylphenol/4-Methylphenol	A	50.00	47.19	1.058064	0.9984971		-5.6	20
4-Nitroaniline	A	50.00	46.86	0.4344717	0.4072093		-6.3	20
3-Nitroaniline	A	50.00	52.33	0.4586814	0.4800309		4.7	20
2-Nitroaniline	A	50.00	59.49	0.2784625	0.3313174		19.0	20
Nitrobenzene	A	50.00	53.28	0.2901353	0.3091627		6.6	20
4-Nitrophenol	A	50.00	51.05	0.1578116	0.1611266	0.05	2.1	20
2-Nitrophenol	A	50.00	49.75	0.2316059	0.230451		-0.5	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/10/11
Lab Sample ID:	1I25701-ICV1	Injection Time:	22:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	46.63	0.6423624	0.5990456		-6.7	20
N-Nitroso-di-n-propylamine	A	50.00	46.34	0.6289666	0.5829753	0.05	-7.3	20
Pentachlorophenol	A	50.00	42.91	0.1868323	0.1603248		-14.2	20
Phenanthrene	A	50.00	44.04	1.059836	0.9335354		-11.9	20
Phenol	A	50.00	47.81	1.472951	1.408437		-4.4	20
Pyrene	A	50.00	47.50	1.452885	1.380131		-5.0	20
2,4,6-Trichlorophenol	A	50.00	49.44	0.4074142	0.4028538		-1.1	20
2,4,5-Trichlorophenol	A	50.00	49.94	0.4114102	0.4108754		-0.1	20
2-Fluorobiphenyl	A	50.00	48.12	1.334603	1.284474		-3.8	20
2-Fluorophenol	A	100.0	81.00	1.364172	1.10504		-19.0	20
Nitrobenzene-d5	A	50.00	53.81	0.3133987	0.337298		7.6	20
Phenol-d6	A	100.0	91.53	1.580866	1.447012		-8.5	20
Terphenyl-d14	A	50.00	49.19	0.8091126	0.7959832		-1.6	20
2,4,6-Tribromophenol	A	100.0	86.74	0.1528243	0.1325628		-13.3	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/13/11
Lab Sample ID:	1I25701-ICV2	Injection Time:	15:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	57.94	0.3657615	0.4238501		15.9	20
Benzidine	A	50.00	75.17	0.5076225	0.7631836		50.3	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J27711	Injection Date:	10/03/11
Lab Sample ID:	1J27711-CCV1	Injection Time:	15:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.46	1.110356	1.16491		4.9	20
Acenaphthylene	A	50.00	53.06	1.725208	1.830917		6.1	20
Acetophenone	A	50.00	55.57	1.801986	2.002783		11.1	20
Anthracene	A	50.00	53.04	1.092671	1.159133		6.1	20
Atrazine	A	50.00	47.32	0.2344682	0.2219149		-5.4	20
Benzaldehyde	A	50.00	50.11	1.010105	1.012335		0.2	20
Benzidine	A	50.00	67.19	0.641297	0.8618329		34.4	20 *
Benzo(a)anthracene	A	50.00	54.62	1.119297	1.222736		9.2	20
Benzo(a)pyrene	A	50.00	54.50	1.045862	1.140073		9.0	20
Benzo(b)fluoranthene	A	50.00	58.23	1.093698	1.273819		16.5	20
Benzo(g,h,i)perylene	A	50.00	49.43	1.033139	1.021357		-1.1	20
Benzoic acid	A	50.00	56.35	0.2679395	0.3019463		12.7	20
Benzo(k)fluoranthene	A	50.00	54.59	1.107729	1.209483		9.2	20
1,1-Biphenyl	A	50.00	52.14	1.444453	1.506273		4.3	20
4-Bromophenyl-phenylether	A	50.00	49.61	0.2284778	0.2266943		-0.8	20
Butylbenzylphthalate	A	50.00	53.47	0.5129818	0.5485975		6.9	20
Caprolactam	A	50.00	46.20	0.1128421	0.104262		-7.6	20
Carbazole	A	50.00	49.92	1.044381	1.042642		-0.2	20
4-Chloro-3-methylphenol	A	50.00	57.30	0.3113523	0.3568005		14.6	20
4-Chloroaniline	A	50.00	54.84	0.4225325	0.4634307		9.7	20
Bis(2-chloroethoxy)methane	A	50.00	48.90	0.4269873	0.4176204		-2.2	20
Bis(2-chloroethyl)ether	A	50.00	51.72	1.297842	1.342394		3.4	20
2,2'-Oxybis-1-chloropropane	A	50.00	35.01	1.947114	1.363281		-30.0	20 *
2-Chloronaphthalene	A	50.00	59.61	1.087766	1.296836		19.2	20
2-Chlorophenol	A	50.00	53.99	1.315004	1.41984		8.0	20
4-Chlorophenyl phenyl ether	A	50.00	55.61	0.6233489	0.6933211		11.2	20
Chrysene	A	50.00	55.80	1.047865	1.169386		11.6	20
Dibenz(a,h)anthracene	A	50.00	49.14	1.004478	0.9872125		-1.7	20
Dibenzofuran	A	50.00	53.14	1.535116	1.631532		6.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J27711	Injection Date:	10/03/11
Lab Sample ID:	1J27711-CCV1	Injection Time:	15:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	51.34	1.182012	1.213721		2.7	20
3,3'-Dichlorobenzidine	A	50.00	57.96	0.4067228	0.4715041		15.9	20
2,4-Dichlorophenol	A	50.00	51.61	0.3046728	0.314489		3.2	20
Diethylphthalate	A	50.00	52.41	1.194731	1.252259		4.8	20
2,4-Dimethylphenol	A	50.00	56.28	0.3636609	0.4093185		12.6	20
Dimethyl phthalate	A	50.00	52.60	1.24444	1.309262		5.2	20
4,6-Dinitro-2-methylphenol	A	50.00	59.79	0.1454148	0.1738786		19.6	20
2,4-Dinitrophenol	A	50.00	61.99	0.1854397	0.2299238	0.05	24.0	20 *
2,4-Dinitrotoluene	A	50.00	53.25	0.3929838	0.4185041		6.5	20
2,6-Dinitrotoluene	A	50.00	51.79	0.2991862	0.3098861		3.6	20
Di-n-octylphthalate	A	50.00	54.65	1.204345	1.316252		9.3	20
1,2-Diphenylhydrazine	A	50.00	47.99	0.8507103	0.8165838		-4.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.89	0.6793074	0.7456816		9.8	20
Fluoranthene	A	50.00	49.72	1.233837	1.226891		-0.6	20
Fluorene	A	50.00	52.32	1.337519	1.399627		4.6	20
Hexachlorobenzene	A	50.00	46.65	0.244362	0.2280107		-6.7	20
Hexachlorobutadiene	A	50.00	53.57	0.186857	0.2001933		7.1	20
Hexachlorocyclopentadiene	A	50.00	53.66	0.3749749	0.4024219	0.05	7.3	20
Hexachloroethane	A	50.00	53.45	0.5464632	0.5841206		6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	51.38	1.038008	1.066558		2.8	20
Isophorone	A	50.00	50.12	0.7442763	0.7461247		0.2	20
1-Methylnaphthalene	A	50.00	51.37	0.5872691	0.6034041		2.7	20
2-Methylnaphthalene	A	50.00	51.27	0.5974192	0.6126228		2.5	20
2-Methylphenol	A	50.00	55.91	1.208635	1.351396		11.8	20
3-Methylphenol/4-Methylphenol	A	50.00	57.41	1.268409	1.456289		14.8	20
4-Nitroaniline	A	50.00	54.60	0.3272887	0.3574044		9.2	20
3-Nitroaniline	A	50.00	53.63	0.3230815	0.346529		7.3	20
2-Nitroaniline	A	50.00	64.49	0.3700237	0.4772284		29.0	20 *
Nitrobenzene	A	50.00	51.11	0.4107927	0.4199419		2.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J27711	Injection Date:	10/03/11
Lab Sample ID:	1J27711-CCV1	Injection Time:	15:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	54.38	0.2721678	0.2959839	0.05	8.8	20
2-Nitrophenol	A	50.00	54.21	0.1941449	0.2104799		8.4	20
N-Nitrosodiphenylamine	A	50.00	51.20	0.6728889	0.6890257		2.4	20
N-Nitroso-di-n-propylamine	A	50.00	52.45	1.033966	1.08464	0.05	4.9	20
Pentachlorophenol	A	50.00	55.24	0.1623094	0.1793213		10.5	20
Phenanthrene	A	50.00	52.56	1.075866	1.131057		5.1	20
Phenol	A	50.00	54.06	1.687698	1.82468		8.1	20
Pyrene	A	50.00	55.07	1.163766	1.28186		10.1	20
2,4,6-Trichlorophenol	A	50.00	50.93	0.382004	0.3891358		1.9	20
2,4,5-Trichlorophenol	A	50.00	51.10	0.4142645	0.42342		2.2	20
2-Fluorobiphenyl	A	50.00	53.64	1.265417	1.357553		7.3	20
2-Fluorophenol	A	100.0	112.5	1.142171	1.284577		12.5	20
Nitrobenzene-d5	A	50.00	53.32	0.4075494	0.434573		6.6	20
Phenol-d6	A	100.0	111.7	1.572986	1.757781		11.7	20
Terphenyl-d14	A	50.00	55.55	0.7462196	0.8289843		11.1	20
2,4,6-Tribromophenol	A	100.0	96.04	0.109869	0.1055131		-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

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J27903	Injection Date:	10/05/11
Lab Sample ID:	1J27903-CCV1	Injection Time:	08:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	46.42	0.3657615	0.3396025		-7.2	20
Acenaphthene	A	50.00	41.31	1.22005	1.008085		-17.4	20
Acenaphthylene	A	50.00	41.48	1.81373	1.504807		-17.0	20
Acetophenone	A	50.00	36.87	1.636614	1.206831		-26.3	20 *
Anthracene	A	50.00	49.50	1.060693	1.049984		-1.0	20
Atrazine	A	50.00	38.54	0.2016455	0.155434		-22.9	20 *
Benzaldehyde	A	50.00	34.63	0.8074234	0.5591951		-30.7	20 *
Benzidine	A	50.00	36.31	0.5076225	0.3686847		-27.4	20 *
Benzo(a)anthracene	A	50.00	44.81	1.211226	1.085587		-10.4	20
Benzo(a)pyrene	A	50.00	49.21	1.081565	1.064458		-1.6	20
Benzo(b)fluoranthene	A	50.00	44.86	1.19717	1.074244		-10.3	20
Benzo(g,h,i)perylene	A	50.00	48.65	0.8086341	0.7868736		-2.7	20
Benzoic acid	L	50.00	38.03	0.2339033	0.193981		-23.9	20 *
Benzo(k)fluoranthene	A	50.00	43.92	1.219154	1.070896		-12.2	20
1,1-Biphenyl	A	50.00	43.97	1.484958	1.306009		-12.1	20
4-Bromophenyl-phenylether	A	50.00	48.38	0.2188965	0.2118108		-3.2	20
Butylbenzylphthalate	A	50.00	39.11	0.9801122	0.7666263		-21.8	20 *
Caprolactam	A	50.00	45.68	0.1128524	0.1030939		-8.6	20
Carbazole	A	50.00	43.31	1.047889	0.9077305		-13.4	20
4-Chloro-3-methylphenol	A	50.00	45.24	0.2594093	0.2346885		-9.5	20
4-Chloroaniline	A	50.00	46.08	0.4260248	0.3926676		-7.8	20
Bis(2-chloroethoxy)methane	A	50.00	41.66	0.4070027	0.3390992		-16.7	20
Bis(2-chloroethyl)ether	A	50.00	40.23	1.284229	1.033278		-19.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	42.17	1.785152	1.505723		-15.7	20
2-Chloronaphthalene	A	50.00	43.64	1.252728	1.093362		-12.7	20
2-Chlorophenol	A	50.00	40.78	1.468001	1.197396		-18.4	20
4-Chlorophenyl phenyl ether	A	50.00	44.32	0.5128224	0.454566		-11.4	20
Chrysene	A	50.00	46.43	1.169091	1.085645		-7.1	20
Dibenz(a,h)anthracene	A	50.00	47.80	0.7795641	0.7452423		-4.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J27903	Injection Date:	10/05/11
Lab Sample ID:	1J27903-CCV1	Injection Time:	08:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.00	46.28	1.5466	1.431462		-7.4	20
Di-n-butylphthalate	A	50.00	43.86	1.537641	1.348713		-12.3	20
2,4-Dichlorophenol	A	50.00	42.22	0.3169117	0.2675779		-15.6	20
Diethylphthalate	A	50.00	36.40	1.464237	1.065848		-27.2	20 *
2,4-Dimethylphenol	A	50.00	43.40	0.3240522	0.2812694		-13.2	20
Dimethyl phthalate	A	50.00	41.90	1.407702	1.179563		-16.2	20
4,6-Dinitro-2-methylphenol	L	50.00	40.69	0.178224	0.158624		-18.6	20
2,4-Dinitrophenol	Q	50.00	42.90	0.2017147	0.1870285	0.05	-14.2	20
2,4-Dinitrotoluene	A	50.00	42.32	0.4652937	0.3938224		-15.4	20
2,6-Dinitrotoluene	A	50.00	40.28	0.3833728	0.3088067		-19.5	20
Di-n-octylphthalate	L	50.00	41.73	2.455223	2.204223		-16.5	20
1,2-Diphenylhydrazine	A	50.00	44.17	0.7520631	0.6643961		-11.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	37.84	1.362333	1.031079		-24.3	20 *
Fluoranthene	A	50.00	48.87	1.011607	0.9888292		-2.3	20
Fluorene	A	50.00	39.85	1.173657	0.9355002		-20.3	20 *
Hexachlorobenzene	A	50.00	43.73	0.258176	0.2258018		-12.5	20
Hexachlorobutadiene	A	50.00	46.03	0.1955893	0.1800513		-7.9	20
Hexachlorocyclopentadiene	A	50.00	50.01	0.3524926	0.3525966	0.05	0.03	20
Hexachloroethane	A	50.00	42.34	0.7232381	0.6123944		-15.3	20
Indeno(1,2,3-cd)pyrene	A	50.00	47.19	0.7779429	0.7341879		-5.6	20
Isophorone	A	50.00	47.64	0.5731082	0.5461189		-4.7	20
1-Methylnaphthalene	A	50.00	48.93	0.4658148	0.4558097		-2.1	20
2-Methylnaphthalene	A	50.00	44.92	0.4917073	0.4417719		-10.2	20
2-Methylphenol	A	50.00	42.87	1.109736	0.951506		-14.3	20
3-Methylphenol/4-Methylphenol	A	50.00	40.49	1.058064	0.8568146		-19.0	20
4-Nitroaniline	A	50.00	37.24	0.4344717	0.3236165		-25.5	20 *
3-Nitroaniline	A	50.00	40.52	0.4586814	0.371736		-19.0	20
2-Nitroaniline	A	50.00	43.89	0.2784625	0.244443		-12.2	20
Nitrobenzene	A	50.00	47.34	0.2901353	0.2747243		-5.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J27903	Injection Date:	10/05/11
Lab Sample ID:	1J27903-CCV1	Injection Time:	08:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	46.47	0.1578116	0.1466657	0.05	-7.1	20
2-Nitrophenol	A	50.00	45.30	0.2316059	0.2098324		-9.4	20
N-Nitrosodiphenylamine	A	50.00	45.98	0.6423624	0.5907792		-8.0	20
N-Nitroso-di-n-propylamine	A	50.00	44.59	0.6289666	0.5608851	0.05	-10.8	20
Pentachlorophenol	A	50.00	44.15	0.1868323	0.1649835		-11.7	20
Phenanthrene	A	50.00	44.66	1.059836	0.9465625		-10.7	20
Phenol	A	50.00	42.32	1.472951	1.246845		-15.4	20
Pyrene	A	50.00	46.42	1.452885	1.348889		-7.2	20
2,4,6-Trichlorophenol	A	50.00	46.25	0.4074142	0.3768375		-7.5	20
2,4,5-Trichlorophenol	A	50.00	49.18	0.4114102	0.4047015		-1.6	20
2-Fluorobiphenyl	A	50.00	44.58	1.334603	1.190041		-10.8	20
2-Fluorophenol	A	100.0	77.65	1.364172	1.059324		-22.3	20 *
Nitrobenzene-d5	A	50.00	46.85	0.3133987	0.2936441		-6.3	20
Phenol-d6	A	100.0	72.78	1.580866	1.150597		-27.2	20 *
Terphenyl-d14	A	50.00	51.87	0.8091126	0.8393391		3.7	20
2,4,6-Tribromophenol	A	100.0	85.21	0.1528243	0.1302285		-14.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J28302	Injection Date:	10/06/11
Lab Sample ID:	1J28302-CCV1	Injection Time:	07:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	44.18	0.3657615	0.3231915		-11.6	20
Acenaphthene	A	50.00	41.21	1.22005	1.005471		-17.6	20
Acenaphthylene	A	50.00	47.14	1.81373	1.709993		-5.7	20
Acetophenone	A	50.00	40.11	1.636614	1.312818		-19.8	20
Anthracene	A	50.00	51.56	1.060693	1.093815		3.1	20
Atrazine	A	50.00	35.58	0.2016455	0.1434881		-28.8	20 *
Benzaldehyde	A	50.00	37.15	0.8074234	0.5999919		-25.7	20 *
Benzidine	A	50.00	34.00	0.5076225	0.345157		-32.0	20 *
Benzo(a)anthracene	A	50.00	45.38	1.211226	1.099272		-9.2	20
Benzo(a)pyrene	A	50.00	50.75	1.081565	1.097719		1.5	20
Benzo(b)fluoranthene	A	50.00	54.14	1.19717	1.296379		8.3	20
Benzo(g,h,i)perylene	A	50.00	42.96	0.8086341	0.6947379		-14.1	20
Benzoic acid	L	50.00	44.04	0.2339033	0.2288044		-11.9	20
Benzo(k)fluoranthene	A	50.00	51.93	1.219154	1.266156		3.9	20
1,1-Biphenyl	A	50.00	41.44	1.484958	1.230686		-17.1	20
4-Bromophenyl-phenylether	A	50.00	53.12	0.2188965	0.2325595		6.2	20
Butylbenzylphthalate	A	50.00	46.41	0.9801122	0.9096724		-7.2	20
Caprolactam	A	50.00	45.22	0.1128524	0.1020551		-9.6	20
Carbazole	A	50.00	47.38	1.047889	0.9930014		-5.2	20
4-Chloro-3-methylphenol	A	50.00	47.50	0.2594093	0.2464226		-5.0	20
4-Chloroaniline	A	50.00	45.34	0.4260248	0.3863647		-9.3	20
Bis(2-chloroethoxy)methane	A	50.00	46.10	0.4070027	0.3752328		-7.8	20
Bis(2-chloroethyl)ether	A	50.00	43.08	1.284229	1.106524		-13.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	46.24	1.785152	1.651036		-7.5	20
2-Chloronaphthalene	A	50.00	41.68	1.252728	1.044391		-16.6	20
2-Chlorophenol	A	50.00	45.56	1.468001	1.337622		-8.9	20
4-Chlorophenyl phenyl ether	A	50.00	48.78	0.5128224	0.5002827		-2.4	20
Chrysene	A	50.00	41.31	1.169091	0.9659683		-17.4	20
Dibenz(a,h)anthracene	A	50.00	40.56	0.7795641	0.6324408		-18.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J28302	Injection Date:	10/06/11
Lab Sample ID:	1J28302-CCV1	Injection Time:	07:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.00	47.84	1.5466	1.479851		-4.3	20
Di-n-butylphthalate	A	50.00	44.97	1.537641	1.383092		-10.1	20
2,4-Dichlorophenol	A	50.00	48.30	0.3169117	0.3061081		-3.4	20
Diethylphthalate	A	50.00	42.36	1.464237	1.240403		-15.3	20
2,4-Dimethylphenol	A	50.00	47.97	0.3240522	0.3109256		-4.1	20
Dimethyl phthalate	A	50.00	42.16	1.407702	1.187121		-15.7	20
4,6-Dinitro-2-methylphenol	L	50.00	43.16	0.178224	0.1691634		-13.7	20
2,4-Dinitrophenol	Q	50.00	40.66	0.2017147	0.1747673	0.05	-18.7	20
2,4-Dinitrotoluene	A	50.00	42.22	0.4652937	0.3929331		-15.6	20
2,6-Dinitrotoluene	A	50.00	41.08	0.3833728	0.314975		-17.8	20
Di-n-octylphthalate	L	50.00	58.77	2.455223	3.184883		17.5	20
1,2-Diphenylhydrazine	A	50.00	49.91	0.7520631	0.7506982		-0.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	44.44	1.362333	1.210732		-11.1	20
Fluoranthene	A	50.00	48.02	1.011607	0.9715467		-4.0	20
Fluorene	A	50.00	44.65	1.173657	1.04811		-10.7	20
Hexachlorobenzene	A	50.00	48.13	0.258176	0.2485047		-3.7	20
Hexachlorobutadiene	A	50.00	44.98	0.1955893	0.1759609		-10.0	20
Hexachlorocyclopentadiene	A	50.00	45.96	0.3524926	0.3240304	0.05	-8.1	20
Hexachloroethane	A	50.00	41.51	0.7232381	0.6004579		-17.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	41.35	0.7779429	0.6433122		-17.3	20
Isophorone	A	50.00	48.18	0.5731082	0.5522496		-3.6	20
1-Methylnaphthalene	A	50.00	52.25	0.4658148	0.4867552		4.5	20
2-Methylnaphthalene	A	50.00	49.97	0.4917073	0.4914197		-0.06	20
2-Methylphenol	A	50.00	46.33	1.109736	1.028362		-7.3	20
3-Methylphenol/4-Methylphenol	A	50.00	46.64	1.058064	0.9868649		-6.7	20
4-Nitroaniline	A	50.00	36.25	0.4344717	0.3149897		-27.5	20 *
3-Nitroaniline	A	50.00	40.67	0.4586814	0.3731206		-18.7	20
2-Nitroaniline	A	50.00	45.88	0.2784625	0.2554901		-8.2	20
Nitrobenzene	A	50.00	51.25	0.2901353	0.2974158		2.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J28302	Injection Date:	10/06/11
Lab Sample ID:	1J28302-CCV1	Injection Time:	07:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	48.50	0.1578116	0.1530864	0.05	-3.0	20
2-Nitrophenol	A	50.00	52.29	0.2316059	0.2422283		4.6	20
N-Nitrosodiphenylamine	A	50.00	50.56	0.6423624	0.6495059		1.1	20
N-Nitroso-di-n-propylamine	A	50.00	49.68	0.6289666	0.6248923	0.05	-0.6	20
Pentachlorophenol	A	50.00	47.05	0.1868323	0.175796		-5.9	20
Phenanthrene	A	50.00	48.92	1.059836	1.037012		-2.2	20
Phenol	A	50.00	46.95	1.472951	1.383151		-6.1	20
Pyrene	A	50.00	52.82	1.452885	1.534712		5.6	20
2,4,6-Trichlorophenol	A	50.00	48.74	0.4074142	0.3971675		-2.5	20
2,4,5-Trichlorophenol	A	50.00	51.83	0.4114102	0.4264432		3.7	20
2-Fluorobiphenyl	A	50.00	42.03	1.334603	1.121768		-15.9	20
2-Fluorophenol	A	100.0	81.17	1.364172	1.107324		-18.8	20
Nitrobenzene-d5	A	50.00	51.82	0.3133987	0.3248198		3.6	20
Phenol-d6	A	100.0	83.26	1.580866	1.316226		-16.7	20
Terphenyl-d14	A	50.00	57.55	0.8091126	0.9313164		15.1	20
2,4,6-Tribromophenol	A	100.0	98.25	0.1528243	0.1501518		-1.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28412	Injection Date:	10/10/11
Lab Sample ID:	1J28412-CCV1	Injection Time:	20:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	49.57	1.110356	1.100822		-0.9	20
Acenaphthylene	A	50.00	50.12	1.725208	1.729419		0.2	20
Acetophenone	A	50.00	50.76	1.801986	1.82947		1.5	20
Anthracene	A	50.00	47.10	1.092671	1.029229		-5.8	20
Atrazine	A	50.00	40.48	0.2344682	0.189823		-19.0	20
Benzidine	A	50.00	47.34	0.641297	0.6071814		-5.3	20
Benzo(a)anthracene	A	50.00	50.43	1.119297	1.128817		0.9	20
Benzo(a)pyrene	A	50.00	51.19	1.045862	1.070723		2.4	20
Benzo(b)fluoranthene	A	50.00	57.34	1.093698	1.254189		14.7	20
Benzo(g,h,i)perylene	A	50.00	49.31	1.033139	1.018798		-1.4	20
Benzoic acid	A	50.00	55.48	0.2679395	0.2972842		11.0	20
Benzo(k)fluoranthene	A	50.00	49.96	1.107729	1.106752		-0.09	20
1,1-Biphenyl	A	50.00	47.64	1.444453	1.376257		-4.7	20
4-Bromophenyl-phenylether	A	50.00	49.14	0.2284778	0.224542		-1.7	20
Butylbenzylphthalate	A	50.00	50.99	0.5129818	0.5231821		2.0	20
Caprolactam	A	50.00	47.34	0.1128421	0.1068495		-5.3	20
Carbazole	A	50.00	45.31	1.044381	0.9464473		-9.4	20
4-Chloro-3-methylphenol	A	50.00	50.68	0.3113523	0.3156064		1.4	20
4-Chloroaniline	A	50.00	48.53	0.4225325	0.4100987		-2.9	20
Bis(2-chloroethoxy)methane	A	50.00	49.57	0.4269873	0.4232985		-0.9	20
Bis(2-chloroethyl)ether	A	50.00	50.64	1.297842	1.314402		1.3	20
2,2'-Oxybis-1-chloropropane	A	50.00	42.01	1.947114	1.636136		-16.0	20
2-Chloronaphthalene	A	50.00	57.01	1.087766	1.240218		14.0	20
2-Chlorophenol	A	50.00	47.93	1.315004	1.260535		-4.1	20
4-Chlorophenyl phenyl ether	A	50.00	55.68	0.6233489	0.6941645		11.4	20
Chrysene	A	50.00	50.72	1.047865	1.062873		1.4	20
Dibenz(a,h)anthracene	A	50.00	51.44	1.004478	1.033443		2.9	20
Dibenzofuran	A	50.00	51.59	1.535116	1.583876		3.2	20
Di-n-butylphthalate	A	50.00	49.18	1.182012	1.162678		-1.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28412	Injection Date:	10/10/11
Lab Sample ID:	1J28412-CCV1	Injection Time:	20:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
3,3'-Dichlorobenzidine	A	50.00	51.95	0.4067228	0.4226179		3.9	20	
2,4-Dichlorophenol	A	50.00	48.07	0.3046728	0.2929057		-3.9	20	
Diethylphthalate	A	50.00	53.79	1.194731	1.285189		7.6	20	
2,4-Dimethylphenol	A	50.00	53.04	0.3636609	0.3857386		6.1	20	
Dimethyl phthalate	A	50.00	49.66	1.24444	1.236061		-0.7	20	
4,6-Dinitro-2-methylphenol	A	50.00	52.92	0.1454148	0.1538923		5.8	20	
2,4-Dinitrophenol	A	50.00	61.88	0.1854397	0.2294909	0.05	23.8	20	*
2,4-Dinitrotoluene	A	50.00	51.16	0.3929838	0.4020667		2.3	20	
2,6-Dinitrotoluene	A	50.00	49.46	0.2991862	0.2959451		-1.1	20	
Di-n-octylphthalate	A	50.00	55.23	1.204345	1.330333		10.5	20	
1,2-Diphenylhydrazine	A	50.00	48.16	0.8507103	0.819374		-3.7	20	
Bis(2-ethylhexyl)phthalate	A	50.00	53.08	0.6793074	0.7211579		6.2	20	
Fluoranthene	A	50.00	47.56	1.233837	1.173653		-4.9	20	
Fluorene	A	50.00	48.92	1.337519	1.308579		-2.2	20	
Hexachlorobenzene	A	50.00	48.15	0.244362	0.2353065		-3.7	20	
Hexachlorobutadiene	A	50.00	57.20	0.186857	0.2137535		14.4	20	
Hexachlorocyclopentadiene	A	50.00	59.86	0.3749749	0.4489011	0.05	19.7	20	
Hexachloroethane	A	50.00	51.33	0.5464632	0.5609918		2.7	20	
Indeno(1,2,3-cd)pyrene	A	50.00	51.59	1.038008	1.071022		3.2	20	
Isophorone	A	50.00	50.17	0.7442763	0.7468737		0.3	20	
1-Methylnaphthalene	A	50.00	46.19	0.5872691	0.5425201		-7.6	20	
2-Methylnaphthalene	A	50.00	47.91	0.5974192	0.5724847		-4.2	20	
2-Methylphenol	A	50.00	47.89	1.208635	1.157563		-4.2	20	
3-Methylphenol/4-Methylphenol	A	50.00	50.91	1.268409	1.291451		1.8	20	
4-Nitroaniline	A	50.00	49.05	0.3272887	0.3210885		-1.9	20	
3-Nitroaniline	A	50.00	46.27	0.3230815	0.2989598		-7.5	20	
2-Nitroaniline	A	50.00	53.79	0.3700237	0.398059		7.6	20	
Nitrobenzene	A	50.00	55.06	0.4107927	0.4523953		10.1	20	
4-Nitrophenol	A	50.00	63.72	0.2721678	0.3468565	0.05	27.4	20	*

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28412	Injection Date:	10/10/11
Lab Sample ID:	1J28412-CCV1	Injection Time:	20:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	49.09	0.1941449	0.1906086		-1.8	20
N-Nitrosodiphenylamine	A	50.00	47.26	0.6728889	0.636058		-5.5	20
N-Nitroso-di-n-propylamine	A	50.00	53.16	1.033966	1.099378	0.05	6.3	20
Pentachlorophenol	A	50.00	49.44	0.1623094	0.1604886		-1.1	20
Phenanthrene	A	50.00	46.14	1.075866	0.9929183		-7.7	20
Phenol	A	50.00	51.53	1.687698	1.739477		3.1	20
Pyrene	A	50.00	49.70	1.163766	1.156705		-0.6	20
2,4,6-Trichlorophenol	A	50.00	51.06	0.382004	0.3901099		2.1	20
2,4,5-Trichlorophenol	A	50.00	50.88	0.4142645	0.4215232		1.8	20
2-Fluorobiphenyl	A	50.00	52.97	1.265417	1.34069		5.9	20
2-Fluorophenol	A	100.0	104.6	1.142171	1.194243		4.6	20
Nitrobenzene-d5	A	50.00	54.33	0.4075494	0.4428697		8.7	20
Phenol-d6	A	100.0	100.5	1.572986	1.58156		0.5	20
Terphenyl-d14	A	50.00	52.41	0.7462196	0.7822174		4.8	20
2,4,6-Tribromophenol	A	100.0	103.0	0.109869	0.1131969		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

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28412	Injection Date:	10/10/11
Lab Sample ID:	1J28412-CCV2	Injection Time:	21:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	47.52	1.010105	0.9599279		-5.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28614	Injection Date:	10/12/11
Lab Sample ID:	1J28614-CCV1	Injection Time:	13:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	50.23	1.110356	1.115477		0.5	20
Acenaphthylene	A	50.00	51.63	1.725208	1.78151		3.3	20
Acetophenone	A	50.00	48.92	1.801986	1.762982		-2.2	20
Anthracene	A	50.00	47.22	1.092671	1.031931		-5.6	20
Benzidine	A	50.00	44.50	0.641297	0.570778		-11.0	20
Benzo(a)anthracene	A	50.00	49.46	1.119297	1.107127		-1.1	20
Benzo(a)pyrene	A	50.00	51.31	1.045862	1.073283		2.6	20
Benzo(b)fluoranthene	A	50.00	57.12	1.093698	1.249468		14.2	20
Benzo(g,h,i)perylene	A	50.00	47.92	1.033139	0.9901617		-4.2	20
Benzoic acid	A	50.00	53.88	0.2679395	0.2887513		7.8	20
Benzo(k)fluoranthene	A	50.00	48.34	1.107729	1.070943		-3.3	20
1,1-Biphenyl	A	50.00	48.00	1.444453	1.386713		-4.0	20
4-Bromophenyl-phenylether	A	50.00	46.41	0.2284778	0.2120555		-7.2	20
Butylbenzylphthalate	A	50.00	51.52	0.5129818	0.5285991		3.0	20
Caprolactam	A	50.00	45.11	0.1128421	0.1018081		-9.8	20
Carbazole	A	50.00	46.09	1.044381	0.9628022		-7.8	20
4-Chloro-3-methylphenol	A	50.00	50.89	0.3113523	0.3169064		1.8	20
4-Chloroaniline	A	50.00	48.94	0.4225325	0.4135752		-2.1	20
Bis(2-chloroethoxy)methane	A	50.00	45.48	0.4269873	0.3883587		-9.0	20
Bis(2-chloroethyl)ether	A	50.00	45.05	1.297842	1.169289		-9.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	25.98	1.947114	1.011589		-48.0	20 *
2-Chloronaphthalene	A	50.00	51.58	1.087766	1.122075		3.2	20
2-Chlorophenol	A	50.00	44.90	1.315004	1.180833		-10.2	20
4-Chlorophenyl phenyl ether	A	50.00	55.77	0.6233489	0.6953324		11.5	20
Chrysene	A	50.00	49.26	1.047865	1.0324		-1.5	20
Dibenz(a,h)anthracene	A	50.00	49.96	1.004478	1.003746		-0.07	20
Dibenzofuran	A	50.00	53.52	1.535116	1.643094		7.0	20
Di-n-butylphthalate	A	50.00	49.57	1.182012	1.171811		-0.9	20
3,3'-Dichlorobenzidine	A	50.00	48.50	0.4067228	0.3944886		-3.0	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28614	Injection Date:	10/12/11
Lab Sample ID:	1J28614-CCV1	Injection Time:	13:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.82	0.3046728	0.3035453		-0.4	20
Diethylphthalate	A	50.00	54.89	1.194731	1.311493		9.8	20
2,4-Dimethylphenol	A	50.00	51.81	0.3636609	0.3768443		3.6	20
Dimethyl phthalate	A	50.00	51.18	1.24444	1.273912		2.4	20
4,6-Dinitro-2-methylphenol	A	50.00	51.66	0.1454148	0.1502307		3.3	20
2,4-Dinitrophenol	A	50.00	58.83	0.1854397	0.2181726	0.05	17.7	20
2,4-Dinitrotoluene	A	50.00	52.06	0.3929838	0.4091944		4.1	20
2,6-Dinitrotoluene	A	50.00	49.60	0.2991862	0.2967647		-0.8	20
Di-n-octylphthalate	A	50.00	56.89	1.204345	1.370199		13.8	20
1,2-Diphenylhydrazine	A	50.00	43.90	0.8507103	0.7469727		-12.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.31	0.6793074	0.7378001		8.6	20
Fluoranthene	A	50.00	48.01	1.233837	1.18463		-4.0	20
Fluorene	A	50.00	49.57	1.337519	1.325896		-0.9	20
Hexachlorobenzene	A	50.00	45.48	0.244362	0.222261		-9.0	20
Hexachlorobutadiene	A	50.00	58.26	0.186857	0.2177162		16.5	20
Hexachlorocyclopentadiene	A	50.00	58.43	0.3749749	0.4381897	0.05	16.9	20
Hexachloroethane	A	50.00	49.68	0.5464632	0.5429425		-0.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	49.52	1.038008	1.028048		-1.0	20
Isophorone	A	50.00	46.47	0.7442763	0.6917058		-7.1	20
1-Methylnaphthalene	A	50.00	49.08	0.5872691	0.5764797		-1.8	20
2-Methylnaphthalene	A	50.00	48.87	0.5974192	0.5839116		-2.3	20
2-Methylphenol	A	50.00	43.85	1.208635	1.060069		-12.3	20
3-Methylphenol/4-Methylphenol	A	50.00	47.01	1.268409	1.192443		-6.0	20
4-Nitroaniline	A	50.00	46.66	0.3272887	0.3054175		-6.7	20
3-Nitroaniline	A	50.00	46.83	0.3230815	0.3025746		-6.3	20
2-Nitroaniline	A	50.00	49.10	0.3700237	0.3633372		-1.8	20
Nitrobenzene	A	50.00	51.26	0.4107927	0.4211463		2.5	20
4-Nitrophenol	A	50.00	47.54	0.2721678	0.2587536	0.05	-4.9	20
2-Nitrophenol	A	50.00	49.78	0.1941449	0.1932896		-0.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28614	Injection Date:	10/12/11
Lab Sample ID:	1J28614-CCV1	Injection Time:	13:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	46.74	0.6728889	0.6289712		-6.5	20
N-Nitroso-di-n-propylamine	A	50.00	46.85	1.033966	0.968869	0.05	-6.3	20
Pentachlorophenol	A	50.00	46.95	0.1623094	0.1524134		-6.1	20
Phenanthrene	A	50.00	47.31	1.075866	1.017993		-5.4	20
Phenol	A	50.00	45.96	1.687698	1.551246		-8.1	20
Pyrene	A	50.00	50.22	1.163766	1.168814		0.4	20
2,4,6-Trichlorophenol	A	50.00	50.85	0.382004	0.3885307		1.7	20
2,4,5-Trichlorophenol	A	50.00	48.92	0.4142645	0.4053444		-2.2	20
2-Fluorobiphenyl	A	50.00	54.19	1.265417	1.371475		8.4	20
2-Fluorophenol	A	100.0	95.61	1.142171	1.092018		-4.4	20
Nitrobenzene-d5	A	50.00	51.06	0.4075494	0.416156		2.1	20
Phenol-d6	A	100.0	91.60	1.572986	1.440844		-8.4	20
Terphenyl-d14	A	50.00	50.92	0.7462196	0.7599506		1.8	20
2,4,6-Tribromophenol	A	100.0	95.64	0.109869	0.1050737		-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

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28614	Injection Date:	10/12/11
Lab Sample ID:	1J28614-CCV2	Injection Time:	14:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	49.58	0.2344682	0.2324818		-0.8	20
Benzaldehyde	A	50.00	47.93	1.010105	0.9683739		-4.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28710	Injection Date:	10/13/11
Lab Sample ID:	1J28710-CCV1	Injection Time:	17:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.21	1.110356	1.070503		-3.6	20
Acenaphthylene	A	50.00	49.61	1.725208	1.71166		-0.8	20
Acetophenone	A	50.00	48.60	1.801986	1.751474		-2.8	20
Anthracene	A	50.00	49.59	1.092671	1.083799		-0.8	20
Benzidine	A	50.00	47.34	0.641297	0.6071604		-5.3	20
Benzo(a)anthracene	A	50.00	50.02	1.119297	1.11969		0.04	20
Benzo(a)pyrene	A	50.00	50.91	1.045862	1.06489		1.8	20
Benzo(b)fluoranthene	A	50.00	56.43	1.093698	1.234344		12.9	20
Benzo(g,h,i)perylene	A	50.00	47.99	1.033139	0.9916961		-4.0	20
Benzoic acid	A	50.00	51.13	0.2679395	0.2740155		2.3	20
Benzo(k)fluoranthene	A	50.00	51.29	1.107729	1.136205		2.6	20
1,1-Biphenyl	A	50.00	46.64	1.444453	1.347444		-6.7	20
4-Bromophenyl-phenylether	A	50.00	48.96	0.2284778	0.223707		-2.1	20
Butylbenzylphthalate	A	50.00	50.04	0.5129818	0.5134351		0.09	20
Caprolactam	A	50.00	47.17	0.1128421	0.1064471		-5.7	20
Carbazole	A	50.00	46.04	1.044381	0.9616396		-7.9	20
4-Chloro-3-methylphenol	A	50.00	52.33	0.3113523	0.3258402		4.7	20
4-Chloroaniline	A	50.00	48.88	0.4225325	0.4130708		-2.2	20
Bis(2-chloroethoxy)methane	A	50.00	47.19	0.4269873	0.4029925		-5.6	20
Bis(2-chloroethyl)ether	A	50.00	45.99	1.297842	1.19375		-8.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	39.01	1.947114	1.518949		-22.0	20 *
2-Chloronaphthalene	A	50.00	55.00	1.087766	1.196511		10.0	20
2-Chlorophenol	A	50.00	45.25	1.315004	1.19015		-9.5	20
4-Chlorophenyl phenyl ether	A	50.00	52.61	0.6233489	0.6559101		5.2	20
Chrysene	A	50.00	50.35	1.047865	1.055145		0.7	20
Dibenz(a,h)anthracene	A	50.00	48.60	1.004478	0.97634		-2.8	20
Dibenzofuran	A	50.00	50.88	1.535116	1.562094		1.8	20
Di-n-butylphthalate	A	50.00	49.38	1.182012	1.167445		-1.2	20
3,3'-Dichlorobenzidine	A	50.00	49.67	0.4067228	0.4040256		-0.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28710	Injection Date:	10/13/11
Lab Sample ID:	1J28710-CCV1	Injection Time:	17:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	51.99	0.3046728	0.3168154		4.0	20
Diethylphthalate	A	50.00	51.96	1.194731	1.241469		3.9	20
2,4-Dimethylphenol	A	50.00	52.86	0.3636609	0.3844873		5.7	20
Dimethyl phthalate	A	50.00	50.59	1.24444	1.259154		1.2	20
4,6-Dinitro-2-methylphenol	A	50.00	52.22	0.1454148	0.1518708		4.4	20
2,4-Dinitrophenol	A	50.00	53.38	0.1854397	0.1979879	0.05	6.8	20
2,4-Dinitrotoluene	A	50.00	52.37	0.3929838	0.4115854		4.7	20
2,6-Dinitrotoluene	A	50.00	49.47	0.2991862	0.2960272		-1.1	20
Di-n-octylphthalate	A	50.00	56.17	1.204345	1.35296		12.3	20
1,2-Diphenylhydrazine	A	50.00	47.34	0.8507103	0.8055352		-5.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	52.58	0.6793074	0.714399		5.2	20
Fluoranthene	A	50.00	48.27	1.233837	1.191244		-3.5	20
Fluorene	A	50.00	50.52	1.337519	1.351532		1.0	20
Hexachlorobenzene	A	50.00	47.93	0.244362	0.2342392		-4.1	20
Hexachlorobutadiene	A	50.00	61.35	0.186857	0.2292658		22.7	20 *
Hexachlorocyclopentadiene	A	50.00	56.17	0.3749749	0.421235	0.05	12.3	20
Hexachloroethane	A	50.00	49.20	0.5464632	0.5377514		-1.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.72	1.038008	1.053043		1.4	20
Isophorone	A	50.00	49.97	0.7442763	0.7438189		-0.06	20
1-Methylnaphthalene	A	50.00	49.11	0.5872691	0.5768525		-1.8	20
2-Methylnaphthalene	A	50.00	49.07	0.5974192	0.586263		-1.9	20
2-Methylphenol	A	50.00	46.00	1.208635	1.111886		-8.0	20
3-Methylphenol/4-Methylphenol	A	50.00	48.99	1.268409	1.242703		-2.0	20
4-Nitroaniline	A	50.00	44.88	0.3272887	0.2937435		-10.2	20
3-Nitroaniline	A	50.00	44.52	0.3230815	0.2876839		-11.0	20
2-Nitroaniline	A	50.00	49.91	0.3700237	0.3693249		-0.2	20
Nitrobenzene	A	50.00	54.79	0.4107927	0.4501242		9.6	20
4-Nitrophenol	A	50.00	49.02	0.2721678	0.2668424	0.05	-2.0	20
2-Nitrophenol	A	50.00	49.86	0.1941449	0.1935856		-0.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28710	Injection Date:	10/13/11
Lab Sample ID:	1J28710-CCV1	Injection Time:	17:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	46.83	0.6728889	0.630162		-6.3	20
N-Nitroso-di-n-propylamine	A	50.00	51.23	1.033966	1.059342	0.05	2.5	20
Pentachlorophenol	A	50.00	45.87	0.1623094	0.1489064		-8.3	20
Phenanthrene	A	50.00	49.55	1.075866	1.066217		-0.9	20
Phenol	A	50.00	48.01	1.687698	1.620573		-4.0	20
Pyrene	A	50.00	48.39	1.163766	1.12636		-3.2	20
2,4,6-Trichlorophenol	A	50.00	50.28	0.382004	0.384106		0.6	20
2,4,5-Trichlorophenol	A	50.00	47.00	0.4142645	0.38941		-6.0	20
2-Fluorobiphenyl	A	50.00	51.48	1.265417	1.302807		3.0	20
2-Fluorophenol	A	100.0	94.12	1.142171	1.074987		-5.9	20
Nitrobenzene-d5	A	50.00	53.56	0.4075494	0.4365744		7.1	20
Phenol-d6	A	100.0	94.72	1.572986	1.489918		-5.3	20
Terphenyl-d14	A	50.00	51.36	0.7462196	0.7665119		2.7	20
2,4,6-Tribromophenol	A	100.0	96.80	0.109869	0.1063511		-3.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28710	Injection Date:	10/13/11
Lab Sample ID:	1J28710-CCV2	Injection Time:	18:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	51.08	0.2344682	0.2395295		2.2	20
Benzaldehyde	A	50.00	50.43	1.010105	1.018802		0.9	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: I22002-BLK1 File ID: I22002B1.D

Sampled: Prepared: Analyzed: 10/10/11 22:28

Solids: Preparation: EXT_3510 Dilution:

Batch: I22002 Sequence: 1J28412 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	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		12.5	25.0	50.0	X, 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_029

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

Matrix: Laboratory ID: 1I22002-BLK1 File ID: I22002B1.D

Sampled: Prepared: Analyzed: 10/10/11 22:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I22002 Sequence: 1J28412 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, 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
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	X, 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	29.26	58.5	50 - 110	
2-Fluorophenol	100.0	29.12	29.1	20 - 110	
Nitrobenzene-d5	50.00	36.40	72.8	40 - 110	
Phenol-d6	100.0	16.37	16.4	0 - 110	
Terphenyl-d14	50.00	47.25	94.5	50 - 135	
2,4,6-Tribromophenol	100.0	79.47	79.5	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_029

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

Matrix: | Laboratory ID: I22002-BS1 | File ID: I22002L1.D

Sampled: | Prepared: | Analyzed: 10/03/11 18:56

Solids: | Preparation: EXT_3510 | Dilution:

Batch: I22002 | Sequence: 1J27711 | Calibration: 1236001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	36.33	1.25	2.50	5.00	
208-96-8	Acenaphthylene	34.30	1.25	2.50	5.00	
98-86-2	Acetophenone	48.14	1.25	2.50	5.00	
120-12-7	Anthracene	44.20	1.25	2.50	5.00	
1912-24-9	Atrazine	46.04	1.25	2.50	5.00	
100-52-7	Benzaldehyde	45.09	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	46.15	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	43.28	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	45.66	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	41.98	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	45.95	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	43.01	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	43.39	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	50.53	1.25	2.50	5.00	
105-60-2	Caprolactam	6.820	1.25	2.50	5.00	
86-74-8	Carbazole	42.72	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	38.41	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	38.20	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	43.85	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	44.57	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	32.10	1.25	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	33.50	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	36.74	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	44.52	1.25	2.50	5.00	
218-01-9	Chrysene	46.49	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	41.54	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.05	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	47.55	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	41.64	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	38.00	1.25	2.50	5.00	
84-66-2	Diethylphthalate	48.10	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	36.34	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	47.77	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	52.03	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	49.51	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	46.36	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	44.73	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	49.63	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_029

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

Matrix: | Laboratory ID: I22002-BS1 | File ID: I22002L1.D

Sampled: | Prepared: | Analyzed: 10/03/11 18:56

Solids: | Preparation: EXT_3510 | Dilution:

Batch: I22002 | Sequence: 1J27711 | Calibration: 1236001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	40.11	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	50.58	1.25	2.50	5.00	
206-44-0	Fluoranthene	43.61	1.25	2.50	5.00	
86-73-7	Fluorene	41.05	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	40.21	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	14.63	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	13.04	1.25	2.50	5.00	
67-72-1	Hexachloroethane	14.66	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	40.88	1.25	2.50	5.00	
78-59-1	Isophorone	39.73	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	30.07	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	27.90	1.25	2.50	5.00	
95-48-7	2-Methylphenol	29.71	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	25.70	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	41.51	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	35.98	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	43.95	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	42.15	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	11.31	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	41.47	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	34.40	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	48.10	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	48.35	5.00	10.0	20.0	
85-01-8	Phenanthrene	45.07	1.25	2.50	5.00	
108-95-2	Phenol	10.88	1.25	2.50	5.00	
129-00-0	Pyrene	46.37	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	41.14	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	41.03	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	25.20	50.4	50 - 110	
2-Fluorophenol	100.0	40.15	40.2	20 - 110	
Nitrobenzene-d5	50.00	39.26	78.5	40 - 110	
Phenol-d6	100.0	21.09	21.1	0 - 110	
Terphenyl-d14	50.00	52.30	105	50 - 135	
2,4,6-Tribromophenol	100.0	79.51	79.5	40 - 125	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03003-BLK1 File ID: J03003B1.D

Sampled: Prepared: Analyzed: 10/05/11 10:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
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	Y, U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, Y, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	X, Y, 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	25.0	50.0	Y, 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	Q, U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Y, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	Q, U
218-01-9	Chrysene		1.25	2.50	5.00	Q, 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
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	Y, 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		12.5	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03003-BLK1 File ID: J03003B1.D

Sampled: Prepared: Analyzed: 10/05/11 10:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 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	Y, U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	Q, Y, U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	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
100-01-6	4-Nitroaniline		5.00	10.0	20.0	Y, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	Q, 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	34.03	68.1	50 - 110	
2-Fluorophenol	100.0	27.80	27.8	20 - 110	Y
Nitrobenzene-d5	50.00	42.80	85.6	40 - 110	
Phenol-d6	100.0	15.43	15.4	0 - 110	Y
Terphenyl-d14	50.00	53.46	107	50 - 135	
2,4,6-Tribromophenol	100.0	77.13	77.1	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_029

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

Matrix: | Laboratory ID: 1J03003-BS1 | File ID: J03003L1.D

Sampled: | Prepared: | Analyzed: 10/05/11 10:07

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1J03003 | Sequence: 1J27903 | Calibration: 1257001 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	48.35	1.25	2.50	5.00	
83-32-9	Acenaphthene	47.67	1.25	2.50	5.00	
208-96-8	Acenaphthylene	50.36	1.25	2.50	5.00	
98-86-2	Acetophenone	39.38	1.25	2.50	5.00	Y
120-12-7	Anthracene	52.12	1.25	2.50	5.00	
1912-24-9	Atrazine	67.38	1.25	2.50	5.00	Y, E
100-52-7	Benzaldehyde	53.39	1.25	2.50	5.00	Y
92-87-5	Benzidine	14.69	12.5	25.0	50.0	X, Y, J
56-55-3	Benzo(a)anthracene	54.62	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	50.00	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	59.10	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	51.32	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	Y, U
207-08-9	Benzo(k)fluoranthene	58.43	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	60.09	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	55.00	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	52.97	1.25	2.50	5.00	Y
105-60-2	Caprolactam	8.473	1.25	2.50	5.00	
86-74-8	Carbazole	53.39	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	37.53	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	39.46	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	56.94	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	42.40	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	43.52	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	44.27	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	30.10	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	64.13	1.25	2.50	5.00	
218-01-9	Chrysene	56.92	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	51.20	1.25	2.50	5.00	
132-64-9	Dibenzofuran	52.65	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	54.53	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	38.12	1.25	2.50	5.00	
84-66-2	Diethylphthalate	56.94	1.25	2.50	5.00	Y
105-67-9	2,4-Dimethylphenol	37.06	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	58.66	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	36.04	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	31.08	12.5	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	49.39	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	53.91	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	53.38	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Matrix: Laboratory ID: 1J03003-BS1 File ID: J03003L1.D

Sampled: Prepared: Analyzed: 10/05/11 10:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	54.24	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	48.52	1.25	2.50	5.00	Y
206-44-0	Fluoranthene	56.13	1.25	2.50	5.00	
86-73-7	Fluorene	55.43	1.25	2.50	5.00	Y
118-74-1	Hexachlorobenzene	50.43	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	22.41	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	22.54	1.25	2.50	5.00	
67-72-1	Hexachloroethane	16.12	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	48.28	1.25	2.50	5.00	
78-59-1	Isophorone	46.38	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	44.15	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	40.36	1.25	2.50	5.00	
95-48-7	2-Methylphenol	25.63	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	20.84	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	44.11	5.00	10.0	20.0	Y
99-09-2	3-Nitroaniline	39.48	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	59.04	5.00	10.0	20.0	
98-95-3	Nitrobenzene	45.92	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	10.56	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	44.94	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	44.94	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	45.45	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	44.15	5.00	10.0	20.0	
85-01-8	Phenanthrene	49.05	1.25	2.50	5.00	
108-95-2	Phenol	10.76	1.25	2.50	5.00	
129-00-0	Pyrene	60.60	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	51.86	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	51.35	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	52.85	106	50 - 110	
2-Fluorophenol	100.0	30.93	30.9	20 - 110	Y
Nitrobenzene-d5	50.00	45.01	90.0	40 - 110	
Phenol-d6	100.0	18.34	18.3	0 - 110	Y
Terphenyl-d14	50.00	53.17	106	50 - 135	
2,4,6-Tribromophenol	100.0	83.27	83.3	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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
GW0134	09/20/11 12:59	09/21/11 08:30	09/22/11 14:50	2.04	7.00	10/13/11 00:03	20.38	40.00	
GW0135	09/20/11 12:59	09/21/11 08:30	09/22/11 14:50	2.04	7.00	10/13/11 00:43	20.41	40.00	
GW0138	09/19/11 11:37	09/21/11 08:30	09/22/11 14:50	3.09	7.00	10/13/11 01:22	20.44	40.00	
GW0138	09/19/11 11:37	09/21/11 08:30	09/22/11 14:50	3.09	7.00	10/13/11 20:45	21.25	40.00	
GW0139	09/28/11 15:28	09/30/11 08:15	10/03/11 12:10	4.82	7.00	10/05/11 11:16	1.96	40.00	
GW0189	09/28/11 10:49	09/30/11 08:15	10/03/11 12:10	5.01	7.00	10/05/11 11:50	1.99	40.00	
GW0189	09/28/11 10:49	09/30/11 08:15	10/03/11 12:10	5.01	7.00	10/05/11 18:43	2.27	40.00	
GW0210	09/29/11 10:36	09/30/11 08:15	10/03/11 12:10	4.02	7.00	10/05/11 19:18	2.30	40.00	
GW0210	09/29/11 10:36	09/30/11 08:15	10/03/11 12:10	4.02	7.00	10/06/11 13:11	3.04	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26927	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I26927-CAL1	003F0301.D	09/23/11 14:35
Cal Standard	1I26927-CAL2	004F0401.D	09/23/11 15:15
Cal Standard	1I26927-CAL3	005F0501.D	09/23/11 15:55
Cal Standard	1I26927-CAL4	006F0601.D	09/23/11 16:34
Cal Standard	1I26927-CAL5	007F0701.D	09/23/11 17:14
Cal Standard	1I26927-CAL6	008F0801.D	09/23/11 17:53
Initial Cal Check	1I26927-ICV1	009F0901.D	09/23/11 18:33

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27210	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I27210-CCV1	003F0301.D	09/28/11 17:37
LCS	1I27030-BS1	004F0401.D	09/28/11 18:16
Blank	1I27030-BLK1	005F0501.D	09/28/11 18:56
GW0134	1109164-01	009F0901.D	09/28/11 21:36
GW0135	1109164-03	010F1001.D	09/28/11 22:16
GW0138	1109164-05	011F1101.D	09/28/11 22:55
Calibration Check	1I27210-CCV2	013F1301.D	09/29/11 00:15

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28503	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28503-CCV1	003F0301.D	10/10/11 16:09
LCS	1J10014-BS1	004F0401.D	10/10/11 16:48
Blank	1J10014-BLK1	005F0501.D	10/10/11 17:27
GW0139	1109252-01	006F0601.D	10/10/11 18:06
GW0189	1109252-03	007F0701.D	10/10/11 18:45
GW0210	1109252-05	008F0801.D	10/10/11 19:24
Calibration Check	1J28503-CCV2	017F1701.D	10/11/11 08:29

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01	File ID:	009F0901.D
Sampled:	09/20/11 12:59	Prepared:	09/28/11 15:40	Analyzed:	09/28/11 21:36
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 1I27030 Sequence: 1I27210 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	61.6	1.00	2.00	3.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04737	94.7	50 - 150	

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03	File ID:	010F1001.D
Sampled:	09/20/11 12:59	Prepared:	09/28/11 15:40	Analyzed:	09/28/11 22:16
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 1I27030 Sequence: 1I27210 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	43.6	1.00	2.00	3.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04569	91.4	50 - 150	

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05	File ID:	011F1101.D
Sampled:	09/19/11 11:37	Prepared:	09/28/11 15:40	Analyzed:	09/28/11 22:55
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 1I27030 Sequence: 1I27210 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	26.4	1.00	2.00	3.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05021	100	50 - 150	

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	006F0601.D
Sampled:	09/28/11 15:28	Prepared:	10/10/11 15:01	Analyzed:	10/10/11 18:06
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 1J10014 Sequence: 1J28503 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	12.9	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04764	95.3	50 - 150	

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	007F0701.D
Sampled:	09/28/11 10:49	Prepared:	10/10/11 15:01	Analyzed:	10/10/11 18:45
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 1J10014 Sequence: 1J28503 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	35.0	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04833	96.7	50 - 150	

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	008F0801.D
Sampled:	09/29/11 10:36	Prepared:	10/10/11 15:01	Analyzed:	10/10/11 19:24
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 1J10014 Sequence: 1J28503 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	44.1	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05033	101	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I27030	Laboratory ID:	1I27030-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	0.4752	95.0	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J10014	Laboratory ID:	1J10014-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	0.4664	93.3	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I27030 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/28/11 15:40	5.00	5.00
GW0135	1109164-03	09/28/11 15:40	5.00	5.00
GW0138	1109164-05	09/28/11 15:40	5.00	5.00
Blank	1I27030-BLK1	09/27/11 13:06	5.00	5.00
LCS	1I27030-BS1	09/27/11 13:06	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J10014 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/10/11 15:01	5.00	5.00
GW0189	1109252-03	10/10/11 15:01	5.00	5.00
GW0210	1109252-05	10/10/11 15:01	5.00	5.00
Blank	1J10014-BLK1	10/10/11 15:01	5.00	5.00
LCS	1J10014-BS1	10/10/11 15:01	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26927	Instrument:	GL-GCVOA2
Calibration:	1269006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0631	GRO Cal 0.1ppm	1I26927-CAL1	003F0301.D	09/23/11 14:35
11I0632	GRO Cal 0.2ppm	1I26927-CAL2	004F0401.D	09/23/11 15:15
11I0633	GRO Cal 0.5ppm	1I26927-CAL3	005F0501.D	09/23/11 15:55
11I0634	GRO Cal 1.0ppm	1I26927-CAL4	006F0601.D	09/23/11 16:34
11I0635	GRO Cal 2.0ppm	1I26927-CAL5	007F0701.D	09/23/11 17:14
11I0636	GRO Cal 5.0ppm	1I26927-CAL6	008F0801.D	09/23/11 17:53

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1269006	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	9/23/11_14:35	9/23/11_17:53

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	3188740	0.2	2712460	0.5	1411068	1	1373003	2	1322475	5	1275322
Bromofluorobenzene	0.01	1718300	0.02	1371850	0.05	1001380	0.1	1121160	0.2	1130485	0.5	912802

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1269006	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	9/23/11 14:35	9/23/11 17:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1880511	44.8658	7.793	1.770253E-02	0.9990881		0.995	
Bromofluorobenzene	1209330	24.26723	20.268	1.370141E-02		0.9988025	0.99	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	009F0901.D	Calibration Date:	09/23/11 14:35
Sequence:	1I26927	Injection Date:	09/23/11
Lab Sample ID:	1I26927-ICV1	Injection Time:	18:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4798	1880511	1545794		-4.0	20
Bromofluorobenzene	Q	0.05000	0.05264	1209330	1283600		5.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	003F0301.D	Calibration Date:	09/23/11 14:35
Sequence:	1I27210	Injection Date:	09/28/11
Lab Sample ID:	1I27210-CCV1	Injection Time:	17:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4833	1880511	1554284		-3.3	20
Bromofluorobenzene	Q	0.05000	0.05256	1209330	1281540		5.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	013F1301.D	Calibration Date:	09/23/11 14:35
Sequence:	1I27210	Injection Date:	09/29/11
Lab Sample ID:	1I27210-CCV2	Injection Time:	00:15

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4792	1880511	1544076		-4.2	20
Bromofluorobenzene	Q	0.05000	0.05092	1209330	1241340		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

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	003F0301.D	Calibration Date:	09/23/11 14:35
Sequence:	1J28503	Injection Date:	10/10/11
Lab Sample ID:	1J28503-CCV1	Injection Time:	16:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4839	1880511	1555776		-3.2	20
Bromofluorobenzene	Q	0.05000	0.05204	1209330	1268920		4.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	017F1701.D	Calibration Date:	09/23/11 14:35
Sequence:	1J28503	Injection Date:	10/11/11
Lab Sample ID:	1J28503-CCV2	Injection Time:	08:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4345	1880511	1433576		-13.1	20
Bromofluorobenzene	Q	0.05000	0.04563	1209330	1110620		-8.7	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27210	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27210-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 09/28/11 17:37		
Bromofluorobenzene	0.05000	105	80 - 120	20.27	20.27	0.0000	+/-0.210	
LCS (1I27030-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 09/28/11 18:16		
Bromofluorobenzene	0.05000	101	50 - 150	20.27	20.27	0.0000	+/-0.210	
Blank (1I27030-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 09/28/11 18:56		
Bromofluorobenzene	0.05000	96.7	50 - 150	20.273	20.27	0.0030	+/-0.210	
GW0134 (1109164-01) mg/L				Lab File ID: 009F0901.D		Analyzed: 09/28/11 21:36		
Bromofluorobenzene	0.05000	94.7	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0135 (1109164-03) mg/L				Lab File ID: 010F1001.D		Analyzed: 09/28/11 22:16		
Bromofluorobenzene	0.05000	91.4	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0138 (1109164-05) mg/L				Lab File ID: 011F1101.D		Analyzed: 09/28/11 22:55		
Bromofluorobenzene	0.05000	100	50 - 150	20.273	20.27	0.0030	+/-0.210	
Calibration Check (1I27210-CCV2) ug/mL				Lab File ID: 013F1301.D		Analyzed: 09/29/11 00:15		
Bromofluorobenzene	0.05000	102	80 - 120	20.273	20.27	0.0030	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28503	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28503-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 10/10/11 16:09		
Bromofluorobenzene	0.05000	104	80 - 120	20.27	20.27	0.0000	+/-0.210	
LCS (1J10014-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/10/11 16:48		
Bromofluorobenzene	0.05000	92.9	50 - 150	20.273	20.27	0.0030	+/-0.210	
Blank (1J10014-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/10/11 17:27		
Bromofluorobenzene	0.05000	99.4	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0139 (1109252-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 10/10/11 18:06		
Bromofluorobenzene	0.05000	95.3	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0189 (1109252-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 10/10/11 18:45		
Bromofluorobenzene	0.05000	96.7	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0210 (1109252-05) mg/L				Lab File ID: 008F0801.D		Analyzed: 10/10/11 19:24		
Bromofluorobenzene	0.05000	101	50 - 150	20.28	20.27	0.0100	+/-0.210	
Calibration Check (1J28503-CCV2) ug/mL				Lab File ID: 017F1701.D		Analyzed: 10/11/11 08:29		
Bromofluorobenzene	0.05000	91.3	80 - 120	20.283	20.27	0.0130	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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
GW0134	09/20/11 12:59	09/21/11 08:30	09/28/11 15:40	N/A	14.00	09/28/11 21:36	8.32	14.00	
GW0135	09/20/11 12:59	09/21/11 08:30	09/28/11 15:40	N/A	14.00	09/28/11 22:16	8.35	14.00	
GW0138	09/19/11 11:37	09/21/11 08:30	09/28/11 15:40	N/A	14.00	09/28/11 22:55	9.43	14.00	
GW0139	09/28/11 15:28	09/30/11 08:15	10/10/11 15:01	N/A	14.00	10/10/11 18:06	12.07	14.00	
GW0189	09/28/11 10:49	09/30/11 08:15	10/10/11 15:01	N/A	14.00	10/10/11 18:45	12.29	14.00	
GW0210	09/29/11 10:36	09/30/11 08:15	10/10/11 15:01	N/A	14.00	10/10/11 19:24	11.33	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1I27030-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	09/28/11 18:56
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1I27030 Sequence: 1I27210 Calibration: 1269006 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	0.04835	96.7	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1I27030-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	09/28/11 18:16
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1I27030 Sequence: 1I27210 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4752	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05064	101	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1J10014-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/10/11 17:27
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1J10014 Sequence: 1J28503 Calibration: 1269006 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	0.04969	99.4	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1J10014-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/10/11 16:48
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1J10014	Sequence:	1J28503	Calibration:	1269006	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4664	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04646	92.9	50 - 150	

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27113	Instrument:	GL-GCFID2
Calibration:	1271003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I27113-CAL6	003F0301.D	09/27/11 18:24
Cal Standard	1I27113-CAL5	004F0401.D	09/27/11 18:57
Cal Standard	1I27113-CAL4	005F0501.D	09/27/11 19:31
Cal Standard	1I27113-CAL3	006F0601.D	09/27/11 20:04
Cal Standard	1I27113-CAL2	007F0701.D	09/27/11 20:38
Cal Standard	1I27113-CAL1	008F0801.D	09/27/11 21:11
Initial Cal Check	1I27113-ICV1	009F0901.D	09/27/11 21:44

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27114	Instrument:	GL-GCFID2
Calibration:	1271003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I27114-CCV1	010F1001.D	09/27/11 22:18
Blank	1I22003-BLK1	026F2601.D	09/28/11 07:08
LCS	1I22003-BS1	027F2701.D	09/28/11 07:41
LCS Dup	1I22003-BSD1	028F2801.D	09/28/11 08:14
Calibration Check	1I27114-CCV2	032F3201.D	09/28/11 10:28

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27306	Instrument:	GL-GCFID2
Calibration:	1271003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I27306-CCV1	003F0301.D	09/29/11 15:46
GW0134	1109164-01	004F0401.D	09/29/11 16:19
GW0135	1109164-03	005F0501.D	09/29/11 16:53
GW0138	1109164-05	006F0601.D	09/29/11 17:26
Calibration Check	1I27306-CCV2	007F0701.D	09/29/11 17:59

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27912	Instrument:	GL-GCFID2
Calibration:	1271003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J27912-CCV1	003F0301.D	10/05/11 12:17
Blank	1J03007-BLK1	004F0401.D	10/05/11 12:50
LCS	1J03007-BS1	005F0501.D	10/05/11 13:23
LCS Dup	1J03007-BSD1	006F0601.D	10/05/11 13:56
Calibration Check	1J27912-CCV2	010F1001.D	10/05/11 16:10

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28003	Instrument:	GL-GCFID2
Calibration:	1271003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28003-CCV1	005F0501.D	10/06/11 19:09
GW0139	1109252-01	015F1501.D	10/07/11 00:41
GW0189	1109252-03	016F1601.D	10/07/11 01:14
GW0210	1109252-05	017F1701.D	10/07/11 01:47
Calibration Check	1J28003-CCV2	018F1801.D	10/07/11 02:20

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01	File ID:	004F0401.D
Sampled:	09/20/11 12:59	Prepared:	09/26/11 13:13	Analyzed:	09/29/11 16:19
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1I22003 Sequence: 1I27306 Calibration: 1271003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	45.4	1.92	1.92	1.92	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.007575	39.4	30 - 140	

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03	File ID:	005F0501.D
Sampled:	09/20/11 12:59	Prepared:	09/26/11 13:13	Analyzed:	09/29/11 16:53
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1I22003 Sequence: 1I27306 Calibration: 1271003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	52.0	1.89	1.89	1.89	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.03497	185	30 - 140	*

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05	File ID:	006F0601.D
Sampled:	09/19/11 11:37	Prepared:	09/26/11 13:13	Analyzed:	09/29/11 17:26
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1I22003 Sequence: 1I27306 Calibration: 1271003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	38.8	1.89	1.89	1.89	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.02516	133	30 - 140	

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	015F1501.D
Sampled:	09/28/11 15:28	Prepared:	10/04/11 11:15	Analyzed:	10/07/11 00:41
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1J03007 Sequence: 1J28003 Calibration: 1271003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	9.62	1.96	1.96	1.96	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01187	60.5	30 - 140	

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	016F1601.D
Sampled:	09/28/11 10:49	Prepared:	10/04/11 11:15	Analyzed:	10/07/11 01:14
Solids:		Preparation:	EXT_3510	Dilution:	50

Batch: 1J03007 Sequence: 1J28003 Calibration: 1271003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	20.5	4.90	4.90	4.90	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01270	64.8	30 - 140	D

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	017F1701.D
Sampled:	09/29/11 10:36	Prepared:	10/04/11 11:15	Analyzed:	10/07/11 01:47
Solids:		Preparation:	EXT_3510	Dilution:	50

Batch: 1J03007 Sequence: 1J28003 Calibration: 1271003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	49.1	4.81	4.81	4.81	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01730	90.0	30 - 140	D

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I22003	Laboratory ID:	1I22003-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**	**0.4933**	**49.3**	**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**	**0.4281**	**42.8 ***	**14.1**	**50**	**50 - 150**

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J03007	Laboratory ID:	1J03007-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**	**0.4010**	**40.1**	**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**	**0.4342**	**43.4 ***	**7.95**	**50**	**50 - 150**

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I22003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/26/11 13:13	1,040.00	1.00
GW0135	1109164-03	09/26/11 13:13	1,060.00	1.00
GW0138	1109164-05	09/26/11 13:13	1,060.00	1.00
Blank	1I22003-BLK1	09/26/11 13:13	1,000.00	1.00
LCS	1I22003-BS1	09/26/11 13:13	1,000.00	1.00
LCS Dup	1I22003-BSD1	09/26/11 13:13	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J03007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/04/11 11:15	1,020.00	1.00
GW0189	1109252-03	10/04/11 11:15	1,020.00	1.00
GW0210	1109252-05	10/04/11 11:15	1,040.00	1.00
Blank	1J03007-BLK1	10/04/11 11:15	1,000.00	1.00
LCS	1J03007-BS1	10/04/11 11:15	1,000.00	1.00
LCS Dup	1J03007-BSD1	10/04/11 11:15	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27113	Instrument:	GL-GCFID2
Calibration:	1271003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0778	DRO ICAL6@100ppm	1I27113-CAL6	003F0301.D	09/27/11 18:24
11I0777	DRO ICAL5@250ppm	1I27113-CAL5	004F0401.D	09/27/11 18:57
11I0776	DRO ICAL4@500ppm	1I27113-CAL4	005F0501.D	09/27/11 19:31
11I0775	DRO ICAL3@1000ppm	1I27113-CAL3	006F0601.D	09/27/11 20:04
11I0774	DRO ICAL2@2500ppm	1I27113-CAL2	007F0701.D	09/27/11 20:38
11I0773	DRO ICAL1@5000ppm	1I27113-CAL1	008F0801.D	09/27/11 21:11

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1271003	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	9/27/11_18:24	9/27/11_21:11

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	5000	1863.777	2500	~~2133.844~~	1000	1511.594	500	1695.068	250	1430.46	100	863.39
o-Terphenyl	250	2086.788	125	2105.344	50	1973.54	25	2013.6	12.5	2046.16	5	1792.4

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1271003	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	9/27/11 18:24	9/27/11 21:11

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1472.858	25.78552	6.3	3.466125E-03	0.9990486		0.995	
o-Terphenyl	2002.972	5.678833	11.33133	3.536029E-02			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	009F0901.D	Calibration Date:	09/27/11 14:07
Sequence:	1I27113	Injection Date:	09/27/11
Lab Sample ID:	1I27113-ICV1	Injection Time:	21:44

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1040	1472.858	1799.56		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

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	010F1001.D	Calibration Date:	09/27/11 14:07
Sequence:	1I27114	Injection Date:	09/27/11
Lab Sample ID:	1I27114-CCV1	Injection Time:	22:18

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	915.8	1472.858	1565.001		-8.4	20
o-Terphenyl	A	50.00	48.34	2002.972	1936.44		-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

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	032F3201.D	Calibration Date:	09/27/11 14:07
Sequence:	1I27114	Injection Date:	09/28/11
Lab Sample ID:	1I27114-CCV2	Injection Time:	10:28

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	822.9	1472.858	1389.185		-17.7	20
o-Terphenyl	A	50.00	45.68	2002.972	1830.08		-8.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	003F0301.D	Calibration Date:	09/27/11 14:07
Sequence:	1I27306	Injection Date:	09/29/11
Lab Sample ID:	1I27306-CCV1	Injection Time:	15:46

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	865.3	1472.858	1469.353		-13.5	20
o-Terphenyl	A	50.00	50.26	2002.972	2013.38		0.5	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	007F0701.D	Calibration Date:	09/27/11 14:07
Sequence:	1I27306	Injection Date:	09/29/11
Lab Sample ID:	1I27306-CCV2	Injection Time:	17:59

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	880.6	1472.858	1498.283		-11.9	20
o-Terphenyl	A	50.00	51.04	2002.972	2044.44		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

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	003F0301.D	Calibration Date:	09/27/11 14:07
Sequence:	1J27912	Injection Date:	10/05/11
Lab Sample ID:	1J27912-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	849.2	1472.858	1438.96		-15.1	20
o-Terphenyl	A	50.00	44.57	2002.972	1785.32		-10.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	010F1001.D	Calibration Date:	09/27/11 14:07
Sequence:	1J27912	Injection Date:	10/05/11
Lab Sample ID:	1J27912-CCV2	Injection Time:	16:10

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	851.0	1472.858	1442.213		-14.9	20
o-Terphenyl	A	50.00	46.67	2002.972	1869.7		-6.7	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	005F0501.D	Calibration Date:	09/27/11 14:07
Sequence:	1J28003	Injection Date:	10/06/11
Lab Sample ID:	1J28003-CCV1	Injection Time:	19:09

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	842.9	1472.858	1426.982		-15.7	20
o-Terphenyl	A	50.00	43.54	2002.972	1744.16		-12.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1271003
Lab File ID:	018F1801.D	Calibration Date:	09/27/11 14:07
Sequence:	1J28003	Injection Date:	10/07/11
Lab Sample ID:	1J28003-CCV2	Injection Time:	02:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	816.9	1472.858	1377.736		-18.3	20
o-Terphenyl	A	50.00	43.40	2002.972	1738.62		-13.2	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27114	Instrument:	GL-GCFID2
		Calibration:	1271003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27114-CCV1) mg/L				Lab File ID: 010F1001.D		Analyzed: 09/27/11 22:18		
o-Terphenyl	50.00	96.7	80 - 120	11.306	11.306	0.0000	+/-0.050	
Blank (1I22003-BLK1) mg/L				Lab File ID: 026F2601.D		Analyzed: 09/28/11 07:08		
o-Terphenyl	0.02000	71.3	30 - 140	11.323	11.306	0.0170	+/-0.050	
LCS (1I22003-BS1) mg/L				Lab File ID: 027F2701.D		Analyzed: 09/28/11 07:41		
o-Terphenyl	0.02000	72.7	30 - 140	11.326	11.306	0.0200	+/-0.050	
LCS Dup (1I22003-BSD1) mg/L				Lab File ID: 028F2801.D		Analyzed: 09/28/11 08:14		
o-Terphenyl	0.02000	69.6	30 - 140	11.356	11.306	0.0500	+/-0.050	
Calibration Check (1I27114-CCV2) mg/L				Lab File ID: 032F3201.D		Analyzed: 09/28/11 10:28		
o-Terphenyl	50.00	91.4	80 - 120	11.356	11.306	0.0500	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27306	Instrument:	GL-GCFID2
		Calibration:	1271003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27306-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 09/29/11 15:46		
o-Terphenyl	50.00	101	80 - 120	11.363	11.363	0.0000	+/-0.050	
GW0134 (1109164-01) mg/L				Lab File ID: 004F0401.D		Analyzed: 09/29/11 16:19		
o-Terphenyl	0.01923	39.4	30 - 140	11.356	11.363	-0.0070	+/-0.050	
GW0135 (1109164-03) mg/L				Lab File ID: 005F0501.D		Analyzed: 09/29/11 16:53		
o-Terphenyl	0.01887	185	30 - 140	11.34	11.363	-0.0230	+/-0.050	*
GW0138 (1109164-05) mg/L				Lab File ID: 006F0601.D		Analyzed: 09/29/11 17:26		
o-Terphenyl	0.01887	133	30 - 140	11.303	11.363	-0.0600	+/-0.050	*
Calibration Check (1I27306-CCV2) mg/L				Lab File ID: 007F0701.D		Analyzed: 09/29/11 17:59		
o-Terphenyl	50.00	102	80 - 120	11.38	11.363	0.0170	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27912	Instrument:	GL-GCFID2
		Calibration:	1271003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27912-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 10/05/11 12:17		
o-Terphenyl	50.00	89.1	80 - 120	11.326	11.326	0.0000	+/-0.050	
Blank (1J03007-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/05/11 12:50		
o-Terphenyl	0.02000	72.1	30 - 140	11.36	11.326	0.0340	+/-0.050	
LCS (1J03007-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/05/11 13:23		
o-Terphenyl	0.02000	61.9	30 - 140	11.33	11.326	0.0040	+/-0.050	
LCS Dup (1J03007-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 10/05/11 13:56		
o-Terphenyl	0.02000	63.6	30 - 140	11.33	11.326	0.0040	+/-0.050	
Calibration Check (1J27912-CCV2) mg/L				Lab File ID: 010F1001.D		Analyzed: 10/05/11 16:10		
o-Terphenyl	50.00	93.3	80 - 120	11.323	11.326	-0.0030	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28003	Instrument:	GL-GCFID2
		Calibration:	1271003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28003-CCV1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/06/11 19:09		
o-Terphenyl	50.00	87.1	80 - 120	11.29	11.29	0.0000	+/-0.050	
GW0139 (1109252-01) mg/L				Lab File ID: 015F1501.D		Analyzed: 10/07/11 00:41		
o-Terphenyl	0.01961	60.5	30 - 140	11.263	11.29	-0.0270	+/-0.050	
GW0189 (1109252-03) mg/L				Lab File ID: 016F1601.D		Analyzed: 10/07/11 01:14		
o-Terphenyl	0.01961	64.8	30 - 140	11.266	11.29	-0.0240	+/-0.050	
GW0210 (1109252-05) mg/L				Lab File ID: 017F1701.D		Analyzed: 10/07/11 01:47		
o-Terphenyl	0.01923	90.0	30 - 140	11.253	11.29	-0.0370	+/-0.050	
Calibration Check (1J28003-CCV2) mg/L				Lab File ID: 018F1801.D		Analyzed: 10/07/11 02:20		
o-Terphenyl	50.00	86.8	80 - 120	11.25	11.29	-0.0400	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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
GW0134	09/20/11 12:59	09/21/11 08:30	09/26/11 13:13	5.97	7.00	09/29/11 16:19	3.13	40.00	
GW0135	09/20/11 12:59	09/21/11 08:30	09/26/11 13:13	5.97	7.00	09/29/11 16:53	3.15	40.00	
GW0138	09/19/11 11:37	09/21/11 08:30	09/26/11 13:13	7.03	7.00	09/29/11 17:26	3.18	40.00	
GW0139	09/28/11 15:28	09/30/11 08:15	10/04/11 11:15	5.78	7.00	10/07/11 00:41	2.56	40.00	
GW0189	09/28/11 10:49	09/30/11 08:15	10/04/11 11:15	5.98	7.00	10/07/11 01:14	2.58	40.00	
GW0210	09/29/11 10:36	09/30/11 08:15	10/04/11 11:15	4.99	7.00	10/07/11 01:47	2.61	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1I22003-BLK1	File ID:	026F2601.D
Sampled:		Prepared:		Analyzed:	09/28/11 07:08
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1I22003	Sequence:	1I27114	Calibration:	1271003	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01426	71.3	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1I22003-BS1	File ID:	027F2701.D
Sampled:		Prepared:		Analyzed:	09/28/11 07:41
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1I22003	Sequence:	1I27114	Calibration:	1271003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4933	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01453	72.7	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1I22003-BSD1	File ID:	028F2801.D
Sampled:		Prepared:		Analyzed:	09/28/11 08:14
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1I22003	Sequence:	1I27114	Calibration:	1271003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4281	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01391	69.6	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1J03007-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/05/11 12:50
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1J03007	Sequence:	1J27912	Calibration:	1271003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.124	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01442	72.1	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1J03007-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/05/11 13:23
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1J03007	Sequence:	1J27912	Calibration:	1271003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4010	0.100	0.100	0.100	B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01239	61.9	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1J03007-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	10/05/11 13:56
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1J03007	Sequence:	1J27912	Calibration:	1271003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4342	0.100	0.100	0.100	B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01272	63.6	30 - 140	

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H21706	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H21706-CAL1	002R0101.D	07/24/11 05:47
Cal Standard	1H21706-CAL1	002F0101.D	07/24/11 05:47
Cal Standard	1H21706-CAL2	003R0101.D	07/24/11 06:08
Cal Standard	1H21706-CAL2	003F0101.D	07/24/11 06:08
Cal Standard	1H21706-CAL3	004R0101.D	07/24/11 06:29
Cal Standard	1H21706-CAL3	004F0101.D	07/24/11 06:29
Cal Standard	1H21706-CAL4	005R0101.D	07/24/11 06:50
Cal Standard	1H21706-CAL4	005F0101.D	07/24/11 06:50
Cal Standard	1H21706-CAL5	006R0101.D	07/24/11 07:11
Cal Standard	1H21706-CAL5	006F0101.D	07/24/11 07:11
Cal Standard	1H21706-CAL6	007R0101.D	07/24/11 07:33
Cal Standard	1H21706-CAL6	007F0101.D	07/24/11 07:33
Initial Cal Check	1H21706-ICV1	008R0101.D	07/24/11 07:54
Initial Cal Check	1H21706-ICV1	008F0101.D	07/24/11 07:54

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27102	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I27102-CCV1	002R0101.D	09/26/11 13:46
Calibration Check	1I27102-CCV1	002F0101.D	09/26/11 13:46
Blank	1I21013-BLK1	003R0101.D	09/26/11 14:07
Blank	1I21013-BLK1	003F0101.D	09/26/11 14:07
LCS	1I21013-BS1	004R0101.D	09/26/11 14:29
LCS	1I21013-BS1	004F0101.D	09/26/11 14:29
Calibration Check	1I27102-CCV2	017R0101.D	09/26/11 19:06
Calibration Check	1I27102-CCV2	017F0101.D	09/26/11 19:06

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27202	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I27202-CCV1	002R0101.D	09/27/11 12:50
Calibration Check	1I27202-CCV1	002F0101.D	09/27/11 12:50
GW0134	1109164-01RE1	004R0101.D	09/27/11 13:33
GW0134	1109164-01RE1	004F0101.D	09/27/11 13:33
GW0135	1109164-03RE1	005R0101.D	09/27/11 13:55
GW0135	1109164-03RE1	005F0101.D	09/27/11 13:55
GW0138	1109164-05RE1	007R0101.D	09/27/11 14:38
GW0138	1109164-05RE1	007F0101.D	09/27/11 14:38
Calibration Check	1I27202-CCV2	008R0101.D	09/27/11 14:59
Calibration Check	1I27202-CCV2	008F0101.D	09/27/11 14:59

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28615	Instrument:	GL-ECD2
Calibration:	1286007		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28615-CAL1	002R0101.D	10/11/11 16:47
Cal Standard	1J28615-CAL1	002F0101.D	10/11/11 16:47
Cal Standard	1J28615-CAL2	003F0101.D	10/11/11 17:08
Cal Standard	1J28615-CAL2	003R0101.D	10/11/11 17:08
Cal Standard	1J28615-CAL3	004F0101.D	10/11/11 17:29
Cal Standard	1J28615-CAL3	004R0101.D	10/11/11 17:29
Cal Standard	1J28615-CAL4	005R0101.D	10/11/11 17:51
Cal Standard	1J28615-CAL4	005F0101.D	10/11/11 17:51
Cal Standard	1J28615-CAL5	006R0101.D	10/11/11 18:12
Cal Standard	1J28615-CAL5	006F0101.D	10/11/11 18:12
Cal Standard	1J28615-CAL6	007F0101.D	10/11/11 18:33
Cal Standard	1J28615-CAL6	007R0101.D	10/11/11 18:33
Cal Standard	1J28615-CAL7	008F0101.D	10/11/11 18:55
Cal Standard	1J28615-CAL7	008R0101.D	10/11/11 18:55
Cal Standard	1J28615-CAL8	009F0101.D	10/11/11 19:16
Cal Standard	1J28615-CAL8	009R0101.D	10/11/11 19:16
Initial Cal Check	1J28615-ICV1	010R0101.D	10/11/11 19:37
Initial Cal Check	1J28615-ICV1	010F0101.D	10/11/11 19:37

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28702	Instrument:	GL-ECD2
Calibration:	1286007		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28702-CCV1	011R0101.D	10/11/11 19:59
Calibration Check	1J28702-CCV1	011F0101.D	10/11/11 19:59
Blank	1J10007-BLK1	012R0101.D	10/11/11 20:20
Blank	1J10007-BLK1	012F0101.D	10/11/11 20:20
LCS	1J10007-BS1	013R0101.D	10/11/11 20:42
LCS	1J10007-BS1	013F0101.D	10/11/11 20:42
Calibration Check	1J28702-CCV2	024R0101.D	10/12/11 00:34
Calibration Check	1J28702-CCV2	024F0101.D	10/12/11 00:34

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28705	Instrument:	GL-ECD2
Calibration:	1286007		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28705-CCV1	002R0101.D	10/12/11 12:41
Calibration Check	1J28705-CCV1	002F0101.D	10/12/11 12:41
GW0139	1109252-01	003R0101.D	10/12/11 13:02
GW0139	1109252-01	003F0101.D	10/12/11 13:02
GW0189	1109252-03	005R0101.D	10/12/11 13:45
GW0189	1109252-03	005F0101.D	10/12/11 13:45
Calibration Check	1J28705-CCV2	007R0101.D	10/12/11 14:28
Calibration Check	1J28705-CCV2	007F0101.D	10/12/11 14:28

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28706	Instrument:	GL-ECD2
Calibration:	1286007		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28706-CCV1	002R0101.D	10/13/11 07:24
Calibration Check	1J28706-CCV1	002F0101.D	10/13/11 07:24
GW0210	1109252-05	003R0101.D	10/13/11 07:45
GW0210	1109252-05	003F0101.D	10/13/11 07:45
Calibration Check	1J28706-CCV2	004R0101.D	10/13/11 08:06
Calibration Check	1J28706-CCV2	004F0101.D	10/13/11 08:06

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01RE1	File ID:	004R0101.D
Sampled:	09/20/11 12:59	Prepared:	09/21/11 09:42	Analyzed:	09/27/11 13:33
Solids:		Preparation:	EDB	Dilution:	100

Batch: 1I21013 Sequence: 1I27202 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	61.8	0.949	1.90	2.85	DPZ-01

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03RE1	File ID:	005R0101.D
Sampled:	09/20/11 12:59	Prepared:	09/21/11 09:42	Analyzed:	09/27/11 13:55
Solids:		Preparation:	EDB	Dilution:	100

Batch: 1I21013 Sequence: 1I27202 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	65.5	0.955	1.91	2.86	DZ-01

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05RE1	File ID:	007R0101.D
Sampled:	09/19/11 11:37	Prepared:	09/21/11 09:42	Analyzed:	09/27/11 14:38
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1I21013 Sequence: 1I27202 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	136	1.90	3.81	5.71	DZ-01

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01	File ID:	003F0101.D
Sampled:	09/28/11 15:28	Prepared:	10/10/11 09:48	Analyzed:	10/12/11 13:02
Solids:		Preparation:	EDB	Dilution:	5

Batch: 1J10007 Sequence: 1J28705 Calibration: 1286007 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	3.22	0.0477	0.0953	0.143	DXP

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03	File ID:	005F0101.D
Sampled:	09/28/11 10:49	Prepared:	10/10/11 09:48	Analyzed:	10/12/11 13:45
Solids:		Preparation:	EDB	Dilution:	100

Batch: 1J10007 Sequence: 1J28705 Calibration: 1286007 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	91.8	0.954	1.91	2.86	DX

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05	File ID:	003F0101.D
Sampled:	09/29/11 10:36	Prepared:	10/10/11 09:48	Analyzed:	10/13/11 07:45
Solids:		Preparation:	EDB	Dilution:	500

Batch: 1J10007 Sequence: 1J28706 Calibration: 1286007 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	314	4.75	9.51	14.3	DX

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I21013	Laboratory ID:	1I21013-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**	**0.8518**	**170**	**70 - 130**
1,2-Dibromoethane [2C]	0.5000	0.4342	86.8	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J10007	Laboratory ID:	1J10007-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	0.4055	81.1	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4142	82.8	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I21013 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01RE1	09/21/11 09:42	36.88	35.00
GW0135	1109164-03RE1	09/21/11 09:42	36.65	35.00
GW0138	1109164-05RE1	09/21/11 09:42	36.75	35.00
Blank	1I21013-BLK1	09/21/11 09:42	35.00	35.00
LCS	1I21013-BS1	09/21/11 09:42	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J10007 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/10/11 09:48	36.71	35.00
GW0189	1109252-03	10/10/11 09:48	36.69	35.00
GW0210	1109252-05	10/10/11 09:48	36.82	35.00
Blank	1J10007-BLK1	10/10/11 09:48	35.00	35.00
LCS	1J10007-BS1	10/10/11 09:48	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1I21013-BLK1	File ID:	003F0101.D
Sampled:		Prepared:	09/21/11 09:42	Analyzed:	09/26/11 14:07
Solids:		Preparation:	EDB	Dilution:	

Batch: 1I21013 Sequence: 1I27102 Calibration: 1217001 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	UX

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_029
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1J10007-BLK1	File ID:	012F0101.D
Sampled:		Prepared:	10/10/11 09:48	Analyzed:	10/11/11 20:20
Solids:		Preparation:	EDB	Dilution:	

Batch: 1J10007 Sequence: 1J28702 Calibration: 1286007 Instrument: GL-ECD2

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

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H21706	Instrument:	GL-ECD2
Calibration:	1217001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0585	EDB ICAL 1 (0.03ppb)	1H21706-CAL1	002R0101.D	07/24/11 05:47
11G0585	EDB ICAL 1 (0.03ppb)	1H21706-CAL1	002F0101.D	07/24/11 05:47
11G0586	EDB ICAL 2 (0.05ppb)	1H21706-CAL2	003R0101.D	07/24/11 06:08
11G0586	EDB ICAL 2 (0.05ppb)	1H21706-CAL2	003F0101.D	07/24/11 06:08
11G0587	EDB ICAL 3 (0.10ppb)	1H21706-CAL3	004R0101.D	07/24/11 06:29
11G0587	EDB ICAL 3 (0.10ppb)	1H21706-CAL3	004F0101.D	07/24/11 06:29
11G0588	EDB ICAL 4 (0.20ppb)	1H21706-CAL4	005R0101.D	07/24/11 06:50
11G0588	EDB ICAL 4 (0.20ppb)	1H21706-CAL4	005F0101.D	07/24/11 06:50
11G0589	EDB ICAL 5 (0.50ppb)/CCV	1H21706-CAL5	006R0101.D	07/24/11 07:11
11G0589	EDB ICAL 5 (0.50ppb)/CCV	1H21706-CAL5	006F0101.D	07/24/11 07:11
11G0590	EDB ICAL 6 (1.00ppb)	1H21706-CAL6	007R0101.D	07/24/11 07:33
11G0590	EDB ICAL 6 (1.00ppb)	1H21706-CAL6	007F0101.D	07/24/11 07:33

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28615	Instrument:	GL-ECD2
Calibration:	1286007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11J0147	EDB ICAL 1 (0.03ppb)	1J28615-CAL1	002R0101.D	10/11/11 16:47
11J0147	EDB ICAL 1 (0.03ppb)	1J28615-CAL1	002F0101.D	10/11/11 16:47
11J0148	EDB ICAL 2 (0.05ppb)	1J28615-CAL2	003F0101.D	10/11/11 17:08
11J0148	EDB ICAL 2 (0.05ppb)	1J28615-CAL2	003R0101.D	10/11/11 17:08
11J0149	EDB ICAL 3 (0.10ppb)	1J28615-CAL3	004F0101.D	10/11/11 17:29
11J0149	EDB ICAL 3 (0.10ppb)	1J28615-CAL3	004R0101.D	10/11/11 17:29
11J0150	EDB ICAL 4 (0.15ppb)	1J28615-CAL4	005R0101.D	10/11/11 17:51
11J0150	EDB ICAL 4 (0.15ppb)	1J28615-CAL4	005F0101.D	10/11/11 17:51
11J0151	EDB ICAL 5 (0.2ppb)	1J28615-CAL5	006R0101.D	10/11/11 18:12
11J0151	EDB ICAL 5 (0.2ppb)	1J28615-CAL5	006F0101.D	10/11/11 18:12
11J0152	EDB ICAL 6 (0.4ppb)	1J28615-CAL6	007F0101.D	10/11/11 18:33
11J0152	EDB ICAL 6 (0.4ppb)	1J28615-CAL6	007R0101.D	10/11/11 18:33
11J0153	EDB ICAL 7 (0.5ppb)	1J28615-CAL7	008F0101.D	10/11/11 18:55
11J0153	EDB ICAL 7 (0.5ppb)	1J28615-CAL7	008R0101.D	10/11/11 18:55
11J0154	EDB ICAL 8 (1.0ppb)	1J28615-CAL8	009R0101.D	10/11/11 19:16
11J0154	EDB ICAL 8 (1.0ppb)	1J28615-CAL8	009F0101.D	10/11/11 19:16

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1217001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/24/11 5:47	7/24/11 7:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.03	105200	0.05	73940	0.1	44320	0.2	29740	0.5	19872	1	16148
1,2-Dibromoethane [2C]	0.03	47700	0.05	45320	0.1	42100	0.2	40220	0.5	37742	1	34697
1,2-Dibromo-3-chloropropane	0.03	31633.33	0.05	31160	0.1	30840	0.2	30265	0.5	26672	1	23374
1,2-Dibromo-3-chloropropane [2C]	0.03	66300	0.05	86800	0.1	71910	0.2	75020	0.5	75158	1	73227

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1217001	Instrument:	GL-ECD2
Matrix:	Water	Calibration Dates:	7/24/11 5:47 7/24/11 7:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	48203.33	72.44401	1.7675	0.1671121	0.9980929		0.995	
1,2-Dibromoethane [2C]	41296.5	11.62254	0.6815	0.2415891			20	
1,2-Dibromo-3-chloropropane	28990.72	11.29974	7.396	1.722382E-02			20	
1,2-Dibromo-3-chloropropane [2C]	74735.83	9.020224	4.6435	1.905185E-02			20	

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1286007	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/11 16:47	10/11/11 19:16

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	0.03	73133.34	0.05	51980	0.1	39020	0.15	35180	0.2	33625	0.4	28262.5
1,2-Dibromoethane [2C]	0.03	58200	0.05	48320	0.1	39080	0.15	38506.67	0.2	37810	0.4	35330
1,2-Dibromo-3-chloropropane	0.03	100300	0.05	76840	0.1	56570	0.15	55920	0.2	53370	0.4	46595
1,2-Dibromo-3-chloropropane [2C]	0.03	150766.7	0.05	113120	0.1	79550	0.15	75540	0.2	70605	0.4	62897.5

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1286007	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/11 16:47	10/11/11 19:16

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.5	27644	1	23584								
1,2-Dibromoethane [2C]	0.5	33776	1	32991								
1,2-Dibromo-3-chloropropane	0.5	44096	1	37223								
1,2-Dibromo-3-chloropropane [2C]	0.5	63904	1	57638								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1286007	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/11 16:47	10/11/11 19:16

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	39053.6	41.72742	2.422625	3.942001E-02		0.9998146	0.995	
1,2-Dibromoethane [2C]	40501.71	21.19825	2.291875	6.459559E-02	0.9996549		0.995	
1,2-Dibromo-3-chloropropane	58864.25	34.70373	8.511125	2.070067E-02		0.9997807	0.995	
1,2-Dibromo-3-chloropropane [2C]	84252.65	37.85408	8.6985	1.484775E-02	0.9989066		0.995	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	008F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H21706	Injection Date:	07/24/11
Lab Sample ID:	1H21706-ICV1	Injection Time:	07:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5673	48203.33	21176		13.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4368	41296.5	36074		-12.6	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	010F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28615	Injection Date:	10/11/11
Lab Sample ID:	1J28615-ICV1	Injection Time:	19:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.2000	0.1785	39053.6	30425		-10.8	20
1,2-Dibromoethane [2C]	L	0.2000	0.1602	40501.71	30270		-19.9	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	002F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1I27102	Injection Date:	09/26/11
Lab Sample ID:	1I27102-CCV1	Injection Time:	13:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	1.030	48203.33	33454		106	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4790	41296.5	39564		-4.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	017F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1I27102	Injection Date:	09/26/11
Lab Sample ID:	1I27102-CCV2	Injection Time:	19:06

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.8106	48203.33	27628		62.1	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4432	41296.5	36610		-11.3	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	002F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1I27202	Injection Date:	09/27/11
Lab Sample ID:	1I27202-CCV1	Injection Time:	12:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.8109	48203.33	27636		62.2	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.5066	41296.5	41842		1.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	008F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1I27202	Injection Date:	09/27/11
Lab Sample ID:	1I27202-CCV2	Injection Time:	14:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.7784	48203.33	26774		55.7	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4821	41296.5	39818		-3.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	011F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28702	Injection Date:	10/11/11
Lab Sample ID:	1J28702-CCV1	Injection Time:	19:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5109	39053.6	27842		2.2	20
1,2-Dibromoethane [2C]	L	0.5000	0.4910	40501.71	33422		-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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	024F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28702	Injection Date:	10/12/11
Lab Sample ID:	1J28702-CCV2	Injection Time:	00:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5083	39053.6	27730		1.7	20
1,2-Dibromoethane [2C]	L	0.5000	0.4933	40501.71	33570		-1.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	002F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28705	Injection Date:	10/12/11
Lab Sample ID:	1J28705-CCV1	Injection Time:	12:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.6480	39053.6	33628		29.6	20 *
1,2-Dibromoethane [2C]	L	0.5000	0.5094	40501.71	34604		1.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	007F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28705	Injection Date:	10/12/11
Lab Sample ID:	1J28705-CCV2	Injection Time:	14:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.6074	39053.6	31946		21.5	20 *
1,2-Dibromoethane [2C]	L	0.5000	0.5034	40501.71	34220		0.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	002F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28706	Injection Date:	10/13/11
Lab Sample ID:	1J28706-CCV1	Injection Time:	07:24

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.7765	39053.6	38776		55.3	20 *
1,2-Dibromoethane [2C]	L	0.5000	0.5410	40501.71	36642		8.2	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_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1286007
Lab File ID:	004F0101.D	Calibration Date:	10/10/11 16:47
Sequence:	1J28706	Injection Date:	10/13/11
Lab Sample ID:	1J28706-CCV2	Injection Time:	08:06

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.7295	39053.6	36922		45.9	20 *
1,2-Dibromoethane [2C]	L	0.5000	0.5400	40501.71	36580		8.0	20

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

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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
GW0134	09/20/11 12:59	09/21/11 08:30	09/21/11 09:42	N/A	14.00	09/27/11 13:33	6.98	14.00	
GW0135	09/20/11 12:59	09/21/11 08:30	09/21/11 09:42	N/A	14.00	09/27/11 13:55	7.00	14.00	
GW0138	09/19/11 11:37	09/21/11 08:30	09/21/11 09:42	N/A	14.00	09/27/11 14:38	8.08	14.00	
GW0139	09/28/11 15:28	09/30/11 08:15	10/10/11 09:48	N/A	14.00	10/12/11 13:02	13.86	14.00	
GW0189	09/28/11 10:49	09/30/11 08:15	10/10/11 09:48	N/A	14.00	10/12/11 13:45	14.08	14.00	
GW0210	09/29/11 10:36	09/30/11 08:15	10/10/11 09:48	N/A	14.00	10/13/11 07:45	13.84	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1I21013-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	09/26/11 14:29
Solids:		Preparation:	EDB	Dilution:	

Batch:	1I21013	Sequence:	1I27102	Calibration:	1217001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.8518	0.0100	0.0200	0.0300	P, X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1I21013-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	09/26/11 14:29
Solids:		Preparation:	EDB	Dilution:	

Batch:	1I21013	Sequence:	1I27102	Calibration:	1217001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4342	0.0100	0.0200	0.0300	P

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1J10007-BS1
File ID: 013F0101.D
Sampled:
Prepared:
Analyzed: 10/11/11 20:42
Solids:
Preparation: EDB
Dilution:
Batch: 1J10007
Sequence: 1J28702
Calibration: 1286007
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4055	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1J10007-BS1
File ID: 013R0101.D
Sampled:
Prepared:
Analyzed: 10/11/11 20:42
Solids:
Preparation: EDB
Dilution:
Batch: 1J10007
Sequence: 1J28702
Calibration: 1286007
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4142	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0134

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1109164-01RE1 Date(s) Analyzed: 09/27/2011 09/27/2011

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	1.64	1.74	1.80	94.9	
	2	0.62	0.65	0.71	61.8	42

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0135

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1109164-03RE1 Date(s) Analyzed: 09/27/2011 09/27/2011

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	1.64	1.74	1.80	96.6	
	2	0.62	0.65	0.71	65.5	38

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0138

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1109164-05RE1 Date(s) Analyzed: 09/27/2011 09/27/2011

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	1.64	1.74	1.80	202	
	2	0.62	0.65	0.71	136	39

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1I21013-BS1 Date(s) Analyzed: 09/26/2011 09/26/2011

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	1.64	1.74	1.80	0.8518	
	2	0.62	0.65	0.71	0.4342	65

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0139

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1109252-01 Date(s) Analyzed: 10/12/2011 10/12/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	3.22	
	2	2.29	2.26	2.32	2.10	42

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0189

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1109252-03

Date(s) Analyzed: 10/12/2011 10/12/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	91.8	
	2	2.29	2.26	2.32	67.2	31

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0210

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1109252-05

Date(s) Analyzed: 10/13/2011 10/13/2011

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	2.43	2.39	2.45	314	
	2	2.29	2.26	2.32	224	33

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1J10007-BS1 Date(s) Analyzed: 10/11/2011 10/11/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.4055	
	2	2.29	2.26	2.32	0.4142	2

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01
Sampled:	09/20/11 12:59	Received:	09/21/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	132000	1000	2000	5000	1		SW6010B	1J10002	10/12/11 11:23
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1J10002	10/12/11 11:23
7439-95-4	Magnesium	21800	1000	3000	5000	1		SW6010B	1J10002	10/12/11 11:23
7440-09-7	Potassium	4880	1000	3000	5000	1	J	SW6010B	1J10002	10/12/11 11:23
7440-23-5	Sodium	69900	1000	3000	5000	1		SW6010B	1J10002	10/12/11 11:23

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-02
Sampled:	09/20/11 12:59	Received:	09/21/11 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)	4490	30.0	60.0	100	1		SW6010B	1J04016	10/04/11 18:55
7439-96-5	Manganese (dissolved)	3730	3.00	6.00	15.0	1		SW6010B	1J04016	10/04/11 18:55

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-03
Sampled:	09/20/11 12:59	Received:	09/21/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	135000	1000	2000	5000	1		SW6010B	1J10002	10/12/11 11:27
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1J10002	10/12/11 11:27
7439-95-4	Magnesium	22100	1000	3000	5000	1		SW6010B	1J10002	10/12/11 11:27
7440-09-7	Potassium	4940	1000	3000	5000	1	J	SW6010B	1J10002	10/12/11 11:27
7440-23-5	Sodium	70700	1000	3000	5000	1		SW6010B	1J10002	10/12/11 11:27

ANALYSIS DATA SHEET

GW0135

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-04
Sampled:	09/20/11 12:59	Received:	09/21/11 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)	4490	30.0	60.0	100	1		SW6010B	1J04016	10/04/11 19:00
7439-96-5	Manganese (dissolved)	3710	3.00	6.00	15.0	1		SW6010B	1J04016	10/04/11 19:00

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05
Sampled:	09/19/11 11:37	Received:	09/21/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	63600	1000	2000	5000	1		SW6010B	1J10002	10/12/11 11:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1J10002	10/12/11 11:32
7439-95-4	Magnesium	9550	1000	3000	5000	1		SW6010B	1J10002	10/12/11 11:32
7440-09-7	Potassium	2690	1000	3000	5000	1	J	SW6010B	1J10002	10/12/11 11:32
7440-23-5	Sodium	30000	1000	3000	5000	1		SW6010B	1J10002	10/12/11 11:32

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-06
Sampled:	09/19/11 11:37	Received:	09/21/11 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)	54.5	30.0	60.0	100	1	J	SW6010B	1J04016	10/04/11 19:05
7439-96-5	Manganese (dissolved)	1400	3.00	6.00	15.0	1		SW6010B	1J04016	10/04/11 19:05

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-01
Sampled:	09/28/11 15:28	Received:	09/30/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	122000	1000	2000	5000	1		SW6010B	1J12012	10/17/11 13:04
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1J12012	10/17/11 13:04
7439-95-4	Magnesium	18900	1000	3000	5000	1		SW6010B	1J12012	10/17/11 13:04
7440-09-7	Potassium	4130	1000	3000	5000	1	J	SW6010B	1J12012	10/17/11 13:04
7440-23-5	Sodium	36900	1000	3000	5000	1		SW6010B	1J12012	10/17/11 13:04

ANALYSIS DATA SHEET

GW0139

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-02
Sampled:	09/28/11 15:28	Received:	09/30/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	1370	30.0	60.0	100	1		SW6010B	1J17006	10/17/11 21:38
7439-96-5	Manganese (dissolved)	4710	3.00	6.00	15.0	1		SW6010B	1J17006	10/17/11 21:38

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-03
Sampled:	09/28/11 10:49	Received:	09/30/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	69800	1000	2000	5000	1		SW6010B	1J12012	10/17/11 13:09
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1J12012	10/17/11 13:09
7439-95-4	Magnesium	10100	1000	3000	5000	1		SW6010B	1J12012	10/17/11 13:09
7440-09-7	Potassium	3190	1000	3000	5000	1	J	SW6010B	1J12012	10/17/11 13:09
7440-23-5	Sodium	30100	1000	3000	5000	1		SW6010B	1J12012	10/17/11 13:09

ANALYSIS DATA SHEET

GW0189

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-04
Sampled:	09/28/11 10:49	Received:	09/30/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	183	30.0	60.0	100	1		SW6010B	1J17006	10/17/11 21:43
7439-96-5	Manganese (dissolved)	727	3.00	6.00	15.0	1		SW6010B	1J17006	10/17/11 21:43

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05
Sampled:	09/29/11 10:36	Received:	09/30/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	85000	1000	2000	5000	1		SW6010B	1J12012	10/17/11 13:14
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1J12012	10/17/11 13:14
7439-95-4	Magnesium	12700	1000	3000	5000	1		SW6010B	1J12012	10/17/11 13:14
7440-09-7	Potassium	3410	1000	3000	5000	1	J	SW6010B	1J12012	10/17/11 13:14
7440-23-5	Sodium	33800	1000	3000	5000	1		SW6010B	1J12012	10/17/11 13:14

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-06
Sampled:	09/29/11 10:36	Received:	09/30/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	50.8	30.0	60.0	100	1	J	SW6010B	1J17006	10/17/11 21:48
7439-96-5	Manganese (dissolved)	847	3.00	6.00	15.0	1		SW6010B	1J17006	10/17/11 21:48

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_029
Project: Kirtland AFB 2011
Calibration: 1277004
Sequence: 1J27710

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J27710-ICV1	Iron (dissolved)	10000	10080	101	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	998.6	99.9	ug/L	+/- 10.00%
1J27710-CCV1	Iron (dissolved)	10000	9900	99.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	976.9	97.7	ug/L	+/- 10.00%
1J27710-CCV6	Iron (dissolved)	10000	9712	97.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	985.3	98.5	ug/L	+/- 10.00%
1J27710-CCV7	Iron (dissolved)	10000	9501	95.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	965.8	96.6	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_029
Project: Kirtland AFB 2011
Calibration: 1286002
Sequence: 1J28603

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28603-ICV1	Calcium	50000	52050	104	ug/L	+/- 10.00%
	Lead	1000	972.7	97.3	ug/L	+/- 10.00%
	Magnesium	50000	50620	101	ug/L	+/- 10.00%
	Potassium	10000	9242	92.4	ug/L	+/- 10.00%
	Sodium	50000	51210	102	ug/L	+/- 10.00%
1J28603-CCV1	Calcium	50000	51770	104	ug/L	+/- 10.00%
	Lead	1000	973.0	97.3	ug/L	+/- 10.00%
	Magnesium	50000	50070	100	ug/L	+/- 10.00%
	Potassium	10000	10070	101	ug/L	+/- 10.00%
	Sodium	50000	50960	102	ug/L	+/- 10.00%
1J28603-CCV2	Calcium	50000	51770	104	ug/L	+/- 10.00%
	Lead	1000	974.8	97.5	ug/L	+/- 10.00%
	Magnesium	50000	49930	99.9	ug/L	+/- 10.00%
	Potassium	10000	10050	100	ug/L	+/- 10.00%
	Sodium	50000	50850	102	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_029
Project: Kirtland AFB 2011
Calibration: 1291004
Sequence: 1J29107

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J29107-ICV1	Calcium	50000	52450	105	ug/L	+/- 10.00%
	Lead	1000	969.2	96.9	ug/L	+/- 10.00%
	Magnesium	50000	50360	101	ug/L	+/- 10.00%
	Potassium	10000	9263	92.6	ug/L	+/- 10.00%
	Sodium	50000	51860	104	ug/L	+/- 10.00%
1J29107-CCV1	Calcium	50000	49860	99.7	ug/L	+/- 10.00%
	Lead	1000	1009	101	ug/L	+/- 10.00%
	Magnesium	50000	47150	94.3	ug/L	+/- 10.00%
	Potassium	10000	9846	98.5	ug/L	+/- 10.00%
	Sodium	50000	49130	98.3	ug/L	+/- 10.00%
1J29107-CCV2	Calcium	50000	49000	98.0	ug/L	+/- 10.00%
	Lead	1000	1035	104	ug/L	+/- 10.00%
	Magnesium	50000	45200	90.4	ug/L	+/- 10.00%
	Potassium	10000	9738	97.4	ug/L	+/- 10.00%
	Sodium	50000	46800	93.6	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_029
Project: Kirtland AFB 2011
Calibration: 1292003
Sequence: 1J29204

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J29204-ICV1	Calcium	50000	50990	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9886	98.9	ug/L	+/- 10.00%
	Lead	1000	1008	101	ug/L	+/- 10.00%
	Magnesium	50000	48340	96.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	994.9	99.5	ug/L	+/- 10.00%
	Potassium	10000	9094	90.9	ug/L	+/- 10.00%
	Sodium	50000	49370	98.7	ug/L	+/- 10.00%
1J29204-CCV1	Calcium	50000	51880	104	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9969	99.7	ug/L	+/- 10.00%
	Lead	1000	1004	100	ug/L	+/- 10.00%
	Magnesium	50000	48610	97.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	999.4	99.9	ug/L	+/- 10.00%
	Potassium	10000	9936	99.4	ug/L	+/- 10.00%
	Sodium	50000	49540	99.1	ug/L	+/- 10.00%
1J29204-CCV2	Calcium	50000	50410	101	ug/L	+/- 10.00%
	Lead	1000	996.3	99.6	ug/L	+/- 10.00%
	Magnesium	50000	47580	95.2	ug/L	+/- 10.00%
	Potassium	10000	9794	97.9	ug/L	+/- 10.00%
	Sodium	50000	49520	99.0	ug/L	+/- 10.00%
1J29204-CCV8	Iron (dissolved)	10000	9125	91.3	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	986.6	98.7	ug/L	+/- 10.00%
1J29204-CCV9	Iron (dissolved)	10000	9108	91.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.5	99.0	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1277004

Sequence: 1J27710

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J27710-CRL1	Iron (dissolved)	60.00	62.80	105	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.190	103	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1286002

Sequence: 1J28603

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J28603-CRL1	Calcium	2000	2142	107	ug/L	80 - 120
	Lead	3.000	2.669	89.0	ug/L	80 - 120
	Magnesium	3000	3122	104	ug/L	80 - 120
	Potassium	3000	3070	102	ug/L	80 - 120
	Sodium	3000	3046	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1291004

Sequence: 1J29107

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J29107-CRL1	Calcium	2000	2124	106	ug/L	80 - 120
	Magnesium	3000	3091	103	ug/L	80 - 120
	Potassium	3000	3075	102	ug/L	80 - 120
	Sodium	3000	3122	104	ug/L	80 - 120
1J29107-CRL2	Lead	3.000	2.586	86.2	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1292003

Sequence: 1J29204

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J29204-CRL1	Calcium	2000	2128	106	ug/L	80 - 120
	Iron (dissolved)	60.00	64.48	107	ug/L	80 - 120
	Lead	3.000	2.856	95.2	ug/L	80 - 120
	Magnesium	3000	3058	102	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.268	104	ug/L	80 - 120
	Potassium	3000	3010	100	ug/L	80 - 120
	Sodium	3000	3006	100	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1J27710
Calibration: 1277004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J27710-ICB1	Iron (dissolved)	5.560	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.08633	3.00	15.0	ug/L	U	SW6010B
1J27710-CCB1	Iron (dissolved)	24.9	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0982	3.00	15.0	ug/L	U	SW6010B
1J27710-CCB6	Iron (dissolved)	8.56	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.379	3.00	15.0	ug/L	U	SW6010B
1J04016-BLK1	Iron (dissolved)	3.75	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.195	3.00	15.0	ug/L	U	SW6010B
1J27710-CCB7	Iron (dissolved)	0.880	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.297	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1J28603
Calibration: 1286002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28603-ICB1	Calcium	2.440	1000	5000	ug/L	U	SW6010B
	Lead	-0.04244	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.460	1000	5000	ug/L	U	SW6010B
	Potassium	10.37	1000	5000	ug/L	U	SW6010B
	Sodium	3.170	1000	5000	ug/L	U	SW6010B
1J28603-CCB1	Calcium	-0.170	1000	5000	ug/L	U	SW6010B
	Lead	-0.245	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.32	1000	5000	ug/L	U	SW6010B
	Potassium	0.820	1000	5000	ug/L	U	SW6010B
	Sodium	3.13	1000	5000	ug/L	U	SW6010B
1J10002-BLK1	Calcium	7.08	1000	5000	ug/L	U	SW6010B
	Lead	0.102	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.41	1000	5000	ug/L	U	SW6010B
	Potassium	101	1000	5000	ug/L	U	SW6010B
	Sodium	2.10	1000	5000	ug/L	U	SW6010B
1J28603-CCB2	Calcium	34.1	1000	5000	ug/L	U	SW6010B
	Lead	0.0826	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.7	1000	5000	ug/L	U	SW6010B
	Potassium	0.650	1000	5000	ug/L	U	SW6010B
	Sodium	29.7	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1J29107
Calibration: 1291004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J29107-ICB1	Calcium	0.6000	1000	5000	ug/L	U	SW6010B
	Lead	-0.4712	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.09000	1000	5000	ug/L	U	SW6010B
	Potassium	-4.570	1000	5000	ug/L	U	SW6010B
	Sodium	2.300	1000	5000	ug/L	U	SW6010B
1J29107-CCB1	Calcium	1.30	1000	5000	ug/L	U	SW6010B
	Lead	-0.407	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.79	1000	5000	ug/L	U	SW6010B
	Potassium	-11.1	1000	5000	ug/L	U	SW6010B
	Sodium	-2.09	1000	5000	ug/L	U	SW6010B
1J12012-BLK1	Calcium	4.29	1000	5000	ug/L	U	SW6010B
	Lead	-0.379	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.54	1000	5000	ug/L	U	SW6010B
	Potassium	22.4	1000	5000	ug/L	U	SW6010B
	Sodium	-1.44	1000	5000	ug/L	U	SW6010B
1J29107-CCB2	Calcium	1.50	1000	5000	ug/L	U	SW6010B
	Lead	-1.05	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.45	1000	5000	ug/L	U	SW6010B
	Potassium	10.8	1000	5000	ug/L	U	SW6010B
	Sodium	-0.0800	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1J29204
Calibration: 1292003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J29204-ICB1	Calcium	2.230	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.01795	30.0	100	ug/L	U	SW6010B
	Lead	-0.2915	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.4900	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	-0.006850	3.00	15.0	ug/L	U	SW6010B
	Potassium	-15.72	1000	5000	ug/L	U	SW6010B
	Sodium	-12.46	1000	5000	ug/L	U	SW6010B
1J29204-CCB1	Calcium	10.2	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.937	30.0	100	ug/L	U	SW6010B
	Lead	0.0343	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.39	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.124	3.00	15.0	ug/L	U	SW6010B
	Potassium	-5.48	1000	5000	ug/L	U	SW6010B
	Sodium	1.47	1000	5000	ug/L	U	SW6010B
1J29204-CCB2	Calcium	29.3	1000	5000	ug/L	U	SW6010B
	Lead	0.0348	1.50	3.00	ug/L	U	SW6010B
	Magnesium	14.3	1000	5000	ug/L	U	SW6010B
	Potassium	25.3	1000	5000	ug/L	U	SW6010B
	Sodium	27.5	1000	5000	ug/L	U	SW6010B
1J29204-CCB8	Iron (dissolved)	-1.16	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.200	3.00	15.0	ug/L	U	SW6010B
1J17006-BLK1	Iron (dissolved)	-3.30	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.00557	3.00	15.0	ug/L	U	SW6010B
1J29204-CCB9	Iron (dissolved)	-0.422	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.196	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1277004

Sequence: 1J27710

Lab Sample ID	Analyte	True	Found	%R	Units
1J27710-IFA1	Iron (dissolved)	200000	194,800.00	97.4	ug/L
	Manganese (dissolved)		-3.63		ug/L
1J27710-IFB1	Iron (dissolved)	200000	193,880.00	96.9	ug/L
	Manganese (dissolved)	500.0	463.99	92.8	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1286002
Sequence: 1J28603

Lab Sample ID	Analyte	True	Found	%R	Units
1J28603-IFA1	Calcium	500000	480,290.00	96.1	ug/L
	Lead		7.29		ug/L
	Magnesium	500000	490,220.00	98.0	ug/L
	Potassium		-34.10		ug/L
	Sodium		39.16		ug/L
1J28603-IFB1	Calcium	500000	486,800.00	97.4	ug/L
	Lead	50.00	53.54	107	ug/L
	Magnesium	500000	497,630.00	99.5	ug/L
	Potassium		-14.86		ug/L
	Sodium		37.23		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1291004
Sequence: 1J29107

Lab Sample ID	Analyte	True	Found	%R	Units
1J29107-IFA1	Calcium	500000	478,960.00	95.8	ug/L
	Lead		2.59		ug/L
	Magnesium	500000	474,850.00	95.0	ug/L
	Potassium		-11.82		ug/L
	Sodium		38.37		ug/L
1J29107-IFB1	Calcium	500000	484,190.00	96.8	ug/L
	Lead	50.00	54.10	108	ug/L
	Magnesium	500000	472,550.00	94.5	ug/L
	Potassium		-41.94		ug/L
	Sodium		22.91		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1292003
Sequence: 1J29204

Lab Sample ID	Analyte	True	Found	%R	Units
1J29204-IFA1	Calcium	500000	476,740.00	95.3	ug/L
	Iron (dissolved)	200000	192,020.00	96.0	ug/L
	Lead		2.40		ug/L
	Magnesium	500000	475,430.00	95.1	ug/L
	Manganese (dissolved)		-3.47		ug/L
	Potassium		-35.52		ug/L
	Sodium		31.58		ug/L
1J29204-IFB1	Calcium	500000	480,340.00	96.1	ug/L
	Iron (dissolved)	200000	193,730.00	96.9	ug/L
	Lead	50.00	50.84	102	ug/L
	Magnesium	500000	476,210.00	95.2	ug/L
	Manganese (dissolved)	500.0	467.73	93.5	ug/L
	Potassium		-41.29		ug/L
	Sodium		20.98		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J04016	Laboratory ID:	1J04016-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	1016	102	80 - 120
Manganese (dissolved)	500.0	500.1	100	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J10002	Laboratory ID:	1J10002-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	5376	108	80 - 120
Lead	250.0	260.9	104	80 - 120
Magnesium	5000	5285	106	80 - 120
Potassium	5000	5216	104	80 - 120
Sodium	5000	5340	107	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J12012	Laboratory ID:	1J12012-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	4995	99.9	80 - 120
Lead	250.0	257.0	103	80 - 120
Magnesium	5000	4663	93.3	80 - 120
Potassium	5000	4893	97.9	80 - 120
Sodium	5000	4777	95.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J17006	Laboratory ID:	1J17006-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	977.7	97.8	80 - 120
Manganese (dissolved)	500.0	505.1	101	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_029

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_029

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_029

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
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	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_029

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
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	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_029

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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_029

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
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	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_029

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
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_029

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

Batch: 1J04016 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-02	10/04/11 15:29	50.00	50.00
GW0135	1109164-04	10/04/11 15:29	50.00	50.00
GW0138	1109164-06	10/04/11 15:29	50.00	50.00
Blank	1J04016-BLK1	10/04/11 15:29	50.00	50.00
LCS	1J04016-BS1	10/04/11 15:29	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J10002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	10/10/11 07:48	50.00	50.00
GW0135	1109164-03	10/10/11 07:48	50.00	50.00
GW0138	1109164-05	10/10/11 07:48	50.00	50.00
Blank	1J10002-BLK1	10/10/11 07:48	50.00	50.00
LCS	1J10002-BS1	10/10/11 07:48	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J12012 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/12/11 10:13	50.00	50.00
GW0189	1109252-03	10/12/11 10:13	50.00	50.00
GW0210	1109252-05	10/12/11 10:13	50.00	50.00
Blank	1J12012-BLK1	10/12/11 10:13	50.00	50.00
LCS	1J12012-BS1	10/12/11 10:13	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J17006 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-02	10/17/11 08:32	50.00	50.00
GW0189	1109252-04	10/17/11 08:32	50.00	50.00
GW0210	1109252-06	10/17/11 08:32	50.00	50.00
Blank	1J17006-BLK1	10/17/11 08:32	50.00	50.00
LCS	1J17006-BS1	10/17/11 08:32	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27710	Instrument:	ME-ICP
Calibration:	1277004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J27710-CAL1	100411A-001	10/04/11 10:18
Cal Standard	1J27710-CAL2	100411A-002	10/04/11 10:23
Cal Standard	1J27710-CAL3	100411A-003	10/04/11 10:27
Cal Standard	1J27710-CAL4	100411A-004	10/04/11 10:31
Cal Standard	1J27710-CAL5	100411A-005	10/04/11 10:36
Cal Standard	1J27710-CAL6	100411A-006	10/04/11 10:40
Initial Cal Check	1J27710-ICV1	100411B-001	10/04/11 11:20
Initial Cal Blank	1J27710-ICB1	100411B-002	10/04/11 11:27
Instrument RL Check	1J27710-CRL1	100411B-003	10/04/11 11:32
Interference Check A	1J27710-IFA1	100411B-005	10/04/11 11:42
Interference Check B	1J27710-IFB1	100411B-006	10/04/11 11:47
Calibration Check	1J27710-CCV1	100411B-008	10/04/11 12:00
Calibration Blank	1J27710-CCB1	100411B-009	10/04/11 12:09
Calibration Check	1J27710-CCV6	100411D-033	10/04/11 18:14
Calibration Blank	1J27710-CCB6	100411D-034	10/04/11 18:21
Blank	1J04016-BLK1	100411D-035	10/04/11 18:26
LCS	1J04016-BS1	100411D-036	10/04/11 18:31
GW0134	1109164-02	100411D-041	10/04/11 18:55
GW0135	1109164-04	100411D-042	10/04/11 19:00
GW0138	1109164-06	100411D-043	10/04/11 19:05
Calibration Check	1J27710-CCV7	100411D-044	10/04/11 19:10
Calibration Blank	1J27710-CCB7	100411D-045	10/04/11 19:17

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28603	Instrument:	ME-ICP
Calibration:	1286002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28603-CAL1	101211A-001	10/12/11 08:19
Cal Standard	1J28603-CAL2	101211A-002	10/12/11 08:24
Cal Standard	1J28603-CAL3	101211A-003	10/12/11 08:28
Cal Standard	1J28603-CAL5	101211A-005	10/12/11 08:38
Cal Standard	1J28603-CAL6	101211A-006	10/12/11 08:43
Cal Standard	1J28603-CAL7	101211A-007	10/12/11 08:49
Cal Standard	1J28603-CAL8	101211A-008	10/12/11 08:54
Initial Cal Check	1J28603-ICV1	101211B-001	10/12/11 09:31
Initial Cal Blank	1J28603-ICB1	101211B-002	10/12/11 09:38
Instrument RL Check	1J28603-CRL1	101211B-003	10/12/11 09:43
Interference Check A	1J28603-IFA1	101211B-005	10/12/11 09:52
Interference Check B	1J28603-IFB1	101211B-006	10/12/11 09:57
Calibration Check	1J28603-CCV1	101211B-008	10/12/11 10:09
Calibration Blank	1J28603-CCB1	101211B-009	10/12/11 10:16
Blank	1J10002-BLK1	101211B-010	10/12/11 10:21
LCS	1J10002-BS1	101211B-011	10/12/11 10:26
GW0134	1109164-01	101211B-023	10/12/11 11:23
GW0135	1109164-03	101211B-024	10/12/11 11:27
GW0138	1109164-05	101211B-025	10/12/11 11:32
Calibration Check	1J28603-CCV2	101211B-026	10/12/11 11:38
Calibration Blank	1J28603-CCB2	101211B-027	10/12/11 11:45

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J29107	Instrument:	ME-ICP
Calibration:	1291004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J29107-CAL1	101411A-001	10/14/11 08:48
Cal Standard	1J29107-CAL2	101411A-002	10/14/11 08:53
Cal Standard	1J29107-CAL3	101411A-003	10/14/11 08:57
Cal Standard	1J29107-CAL5	101411A-005	10/14/11 09:07
Cal Standard	1J29107-CAL6	101411A-006	10/14/11 09:12
Cal Standard	1J29107-CAL7	101411A-007	10/14/11 09:17
Cal Standard	1J29107-CAL8	101411A-008	10/14/11 09:22
Initial Cal Check	1J29107-ICV1	101411B-001	10/14/11 09:51
Initial Cal Blank	1J29107-ICB1	101411B-002	10/14/11 09:59
Instrument RL Check	1J29107-CRL1	101411B-003	10/14/11 10:03
Instrument RL Check	1J29107-CRL2	101411B-005	10/14/11 10:15
Interference Check A	1J29107-IFA1	101411B-006	10/14/11 10:21
Interference Check B	1J29107-IFB1	101411B-007	10/14/11 10:26
Calibration Check	1J29107-CCV1	101411B-009	10/14/11 10:38
Calibration Blank	1J29107-CCB1	101411B-010	10/14/11 10:45
Blank	1J12012-BLK1	101411B-011	10/14/11 10:50
LCS	1J12012-BS1	101411B-012	10/14/11 10:54
Calibration Check	1J29107-CCV2	101411B-024	10/14/11 11:56
Calibration Blank	1J29107-CCB2	101411B-025	10/14/11 12:03

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J29204	Instrument:	ME-ICP
Calibration:	1292003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J29204-CAL1	101711A-001	10/17/11 10:27
Cal Standard	1J29204-CAL1	101711A-001	10/17/11 10:27
Cal Standard	1J29204-CAL4	101711A-004	10/17/11 10:40
Cal Standard	1J29204-CAL5	101711A-005	10/17/11 10:45
Cal Standard	1J29204-CAL5	101711A-005	10/17/11 10:45
Cal Standard	1J29204-CAL6	101711A-006	10/17/11 10:50
Cal Standard	1J29204-CAL6	101711A-006	10/17/11 10:50
Cal Standard	1J29204-CAL7	101711A-007	10/17/11 10:56
Cal Standard	1J29204-CAL8	101711A-008	10/17/11 11:12
Cal Standard	1J29204-CAL2	101711A-009	10/17/11 11:20
Cal Standard	1J29204-CAL2	101711A-009	10/17/11 11:20
Cal Standard	1J29204-CAL3	101711A-010	10/17/11 11:25
Cal Standard	1J29204-CAL3	101711A-010	10/17/11 11:25
Initial Cal Check	1J29204-ICV1	101711B-001	10/17/11 11:55
Initial Cal Check	1J29204-ICV1	101711B-001	10/17/11 11:55
Initial Cal Blank	1J29204-ICB1	101711B-002	10/17/11 12:02
Initial Cal Blank	1J29204-ICB1	101711B-002	10/17/11 12:02
Instrument RL Check	1J29204-CRL1	101711B-003	10/17/11 12:07
Instrument RL Check	1J29204-CRL1	101711B-003	10/17/11 12:07
Interference Check A	1J29204-IFA1	101711B-005	10/17/11 12:17
Interference Check A	1J29204-IFA1	101711B-005	10/17/11 12:17
Interference Check B	1J29204-IFB1	101711B-006	10/17/11 12:22
Interference Check B	1J29204-IFB1	101711B-006	10/17/11 12:22
Calibration Check	1J29204-CCV1	101711B-008	10/17/11 12:38
Calibration Check	1J29204-CCV1	101711B-008	10/17/11 12:38
Calibration Blank	1J29204-CCB1	101711B-009	10/17/11 12:45
Calibration Blank	1J29204-CCB1	101711B-009	10/17/11 12:45
GW0139	1109252-01	101711B-013	10/17/11 13:04
GW0189	1109252-03	101711B-014	10/17/11 13:09
GW0210	1109252-05	101711B-015	10/17/11 13:14
Calibration Check	1J29204-CCV2	101711B-020	10/17/11 13:37
Calibration Blank	1J29204-CCB2	101711B-021	10/17/11 13:45

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J29204	Instrument:	ME-ICP
Calibration:	1292003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J29204-CCV8	101711B-109	10/17/11 20:55
Calibration Blank	1J29204-CCB8	101711B-110	10/17/11 21:03
Blank	1J17006-BLK1	101711B-115	10/17/11 21:27
LCS	1J17006-BS1	101711B-116	10/17/11 21:32
GW0139	1109252-02	101711B-117	10/17/11 21:38
GW0189	1109252-04	101711B-118	10/17/11 21:43
GW0210	1109252-06	101711B-119	10/17/11 21:48
Calibration Check	1J29204-CCV9	101711B-120	10/17/11 21:53
Calibration Blank	1J29204-CCB9	101711B-121	10/17/11 22:01

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1277004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/4/11 10:18 10/4/11 10:51

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	2.0998E-05	10000	2.1084E-05			500000	2.1226E-05		
Antimony	0	0	100	0.0004897	1000	4.9801E-04					10000	4.9842E-04
Arsenic	0	0	100	0.0003097	1000	3.3183E-04					10000	3.2329E-04
Barium	0	0	50	0.0105994	1000	0.010012	5000	0.0103416				
Beryllium	0	0	100	0.0026172	1000	0.002663					10000	0.0025809
Boron	0	0	50	0.0000146	1000	1.476E-05					5000	1.4618E-05
Cadmium	0	0	100	0.016198	1000	0.016324					10000	0.015581
Calcium	0	0	1100	6.530909E-05	50000	6.518E-05					10000	
Chromium	0	0	100	0.0000495	1000	4.786E-05					10000	4.8455E-05
Cobalt	0	0	100	0.0045288	1000	0.004414					10000	0.0045603
Copper	0	0	100	0.0000602	1000	5.489E-05					10000	5.5944E-05
Iron	0	0	5100	2.223333E-05	10000	2.1502E-05			500000	2.079E-05	10000	
Lead	0	0	100	0.0012399	1000	0.0011969					10000	0.0012339
Magnesium	0	0	5100		50000	2.3926E-06			500000	2.404E-06	10000	
Manganese	0	0	100	0.0002885	1000	2.7752E-04	10000	2.7678E-04			10000	
Molybdenum	0	0	100	0.0034856	1000	0.0035798					10000	0.0035509
Nickel	0	0	100	0.0031021	1000	0.0030466					10000	0.0030732
Potassium	0	0	1000	1.017E-05	10000	1.3076E-05						
Selenium	0	0	100	0.0003649	1000	3.6635E-04					10000	3.5781E-04
Silver	0	0	20	0.000061	500	5.834E-05	2000	6.148E-05				
Sodium	0	0	1000		50000	3.4746E-05						
Strontium	0	0	100	0.001487	1000	0.001503					10000	0.001493
Thallium	0	0	100	0.0006967	1000	6.8205E-04					10000	6.8945E-04
Tin	0	0	50	0.0012186	1000	0.0012624					5000	1.25568E-03
Titanium	0	0	100	0.0002196	1000	2.1786E-04					10000	2.1617E-04
Vanadium	0	0	100	0.0000531	1000	5.203E-05					10000	5.2214E-05
Zinc	0	0	100	0.0066253	1000	0.0066935					10000	0.0066133

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1277004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/4/11 10:18 10/4/11 10:51

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0788E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.2432E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3298E-05										
Selenium												
Silver												
Sodium	100000	3.4695E-05	500000	3.4838E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_029	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1277004		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	10/4/11 10:18	10/4/11 10:51

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5827E-05	66.66931	3.051155	129.7038	1		0.998	
Antimony	3.715325E-04	66.67544	84.37999	198.8307	1		0.998	
Arsenic	2.41205E-04	66.77363	12.54732	192.5075	0.9999915		0.998	
Barium	7.73825E-03	66.73901	1.867567	169.6517	0.9999536		0.998	
Beryllium	1.965275E-03	66.68858	6.40074	166.3912	0.9999902		0.998	
Boron	1.09945E-05	66.66984	6.891825	179.7753	0.9999964		0.998	
Cadmium	1.202575E-02	66.7213	6.618725	189.9234	0.9999787		0.998	
Calcium	4.781927E-05	66.81136	4.957047	159.6842	0.9999487		0.998	
Chromium	3.645375E-05	66.69259	119.2992	198.7058	0.9999982		0.998	
Cobalt	3.375775E-03	66.69268	1.608665	151.7397	0.9999894		0.998	
Copper	4.27585E-05	66.88246	1.403212	65.72183	0.9999935		0.998	
Iron	1.613133E-05	66.76669	3.420012	130.721	0.9999996		0.998	
Lead	9.17675E-04	66.69886	19.57254	193.5086	0.9999906		0.998	
Magnesium	1.75995E-06	66.79651	197.8598	199.7307	0.9998001		0.998	
Manganese	0.0002107	66.71517	2.932873	148.1906	0.9999999		0.998	
Molybdenum	2.654075E-03	66.6832	5.638105	185.6356	0.9999992		0.998	
Nickel	2.305475E-03	66.67391	2.190273	169.6271	0.9999991		0.998	
Potassium	9.136E-06	68.46729	1.788723	101.9711	0.9999998		0.998	
Selenium	2.72265E-04	66.68075	17.70091	191.4409	0.999995		0.998	
Silver	4.5205E-05	66.73663	7.754752	176.2943	0.9998146		0.998	
Sodium	2.606975E-05	66.66705	37.75186	197.7298	0.9999993		0.998	
Strontium	1.12075E-03	66.66927	2.8215	113.9437	0.9999995		0.998	
Thallium	5.1705E-04	66.6767	3.306622	181.0183	0.9999989		0.998	
Tin	9.3417E-04	66.69854	5.58504	185.2258	0.9999982		0.998	
Titanium	1.634075E-04	66.67217	1.54795	100.5641	0.9999997		0.998	
Vanadium	3.9336E-05	66.67725	7.51429	171.0586	0.9999998		0.998	
Zinc	4.983025E-03	66.67043	21.94481	196.8769	0.9999985		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1286002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/12/11 8:19 10/12/11 8:54

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	2.0722E-05	10000	2.0451E-05			500000	2.0546E-05		
Antimony	0	0	100	0.0005781	1000	6.0312E-04					10000	5.9449E-04
Arsenic	0	0	100	0.0003167	1000	3.3742E-04					10000	3.3041E-04
Barium	0	0	50	0.011391	1000	0.010835	5000	0.0112366				
Beryllium	0	0	100	0.0024962	1000	0.002542					10000	0.0024125
Boron	0	0	50	0.0000132	1000	1.405E-05					5000	1.3318E-05
Cadmium	0	0	100	0.016249	1000	0.016561					10000	0.015536
Calcium	0	0	1100	5.922727E-05	50000	5.979E-05					10000	
Chromium	0	0	100	0.0000493	1000	4.835E-05					10000	4.7997E-05
Cobalt	0	0	100	0.0052112	1000	0.005149					10000	0.005219
Copper	0	0	100	0.0000666	1000	6.238E-05					10000	6.3019E-05
Iron	0	0	5100	1.983137E-05	10000	1.9034E-05			500000	1.81256E-05	10000	
Lead	0	0	100	0.0013468	1000	0.0013168					10000	0.0013387
Magnesium	0	0	5100		50000	2.0104E-06			500000	1.99958E-06	10000	
Manganese	0	0	100	0.0002729	1000	2.7308E-04	10000	0.0002637			10000	
Molybdenum	0	0	100	0.0036709	1000	0.003777					10000	0.003739
Nickel	0	0	100	0.0031896	1000	0.0031316					10000	0.003122
Potassium	0	0	1000	8.39E-06	10000	1.2257E-05						
Selenium	0	0	100	0.0003896	1000	0.0003971					10000	3.8405E-04
Silver	0	0	20	0.0000585	500	5.596E-05	2000	5.817E-05				
Sodium	0	0	1000		50000	3.3316E-05						
Strontium	0	0	100	0.001567	1000	0.001587					10000	0.001545
Thallium	0	0	100	0.0006854	1000	6.8178E-04					10000	6.8332E-04
Tin	0	0	50	0.0013034	1000	0.0013497					5000	1.33042E-03
Titanium	0	0	100	0.0002251	1000	2.2735E-04					10000	2.2003E-04
Vanadium	0	0	100	0.0000504	1000	5.074E-05					10000	4.938E-05
Zinc	0	0	100	0.0069646	1000	0.007054					10000	0.0069267

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1286002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/12/11 8:19 10/12/11 8:54

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	5.6632E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.9548E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2525E-05										
Selenium												
Silver												
Sodium	100000	3.2998E-05	500000	3.3192E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1286002	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	10/12/11 8:19	10/12/11 8:54	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.542975E-05	66.67064	7.492455	188.7552	1		0.998	
Antimony	4.439275E-04	66.70763	113.5081	198.6948	0.9999974		0.998	
Arsenic	2.461325E-04	66.75828	3.941322	171.8739	0.9999943		0.998	
Barium	8.36565E-03	66.7255	2.677533	171.3815	0.9999428		0.998	
Beryllium	1.862675E-03	66.72878	8.1988	187.0243	0.9999726		0.998	
Boron	1.0142E-05	66.76966	6.03875	154.1361	0.9998712		0.998	
Cadmium	0.0120865	66.76108	1.525263	145.9933	0.9999587		0.998	
Calcium	4.391232E-05	66.7402	2.706265	172.3892	0.9999694		0.998	
Chromium	3.641175E-05	66.68379	105.3587	198.0735	0.9999996		0.998	
Cobalt	0.0038948	66.67152	2.456805	156.1248	0.9999981		0.998	
Copper	4.799975E-05	66.77884	1.514805	91.6233	0.9999978		0.998	
Iron	1.424774E-05	66.84586	4.887587	171.8971	0.9999991		0.998	
Lead	1.000575E-03	66.67869	1.866108	157.1393	0.999997		0.998	
Magnesium	1.491195E-06	66.6862	994.584	199.9507	0.9999743		0.998	
Manganese	2.0242E-04	66.70177	2.87606	149.3479	0.9999883		0.998	
Molybdenum	2.796725E-03	66.68514	8.354435	189.2263	0.9999988		0.998	
Nickel	0.0023608	66.67866	2.067042	156.3173	1		0.998	
Potassium	8.293E-06	70.45166	1.409543	101.225	0.9999993		0.998	
Selenium	2.926875E-04	66.6917	10.33114	190.0785	0.9999892		0.998	
Silver	4.31575E-05	66.71785	7.24506	176.3467	0.9998946		0.998	
Sodium	2.48765E-05	66.66874	1.014505	96.02951	0.9999979		0.998	
Strontium	1.17475E-03	66.68265	3.541825	168.6457	0.9999927		0.998	
Thallium	5.12625E-04	66.6673	4.331693	175.8945	0.9999999		0.998	
Tin	9.9588E-04	66.69393	7.11852	184.5974	0.9999899		0.998	
Titanium	1.6812E-04	66.69153	2.17929	169.8586	0.9999903		0.998	
Vanadium	3.763E-05	66.68435	4.61856	162.1728	0.9999931		0.998	
Zinc	5.236325E-03	66.67446	19.23237	195.9826	0.9999967		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1291004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/14/11 8:48 10/14/11 9:22

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	2.0868E-05	10000	2.0574E-05			500000	2.072E-05		
Antimony	0	0	100	0.0005407	1000	5.5279E-04					10000	5.3853E-04
Arsenic	0	0	100	0.0003209	1000	3.3854E-04					10000	3.3004E-04
Barium	0	0	50	0.0110582	1000	0.010377	5000	0.0106694				
Beryllium	0	0	100	0.002714	1000	0.0026638					10000	0.0026324
Boron	0	0	50	0.0000142	1000	1.399E-05					5000	1.3952E-05
Cadmium	0	0	100	0.016184	1000	0.016188					10000	0.015312
Calcium	0	0	1100	6.393636E-05	50000	6.0056E-05					10000	
Chromium	0	0	100	0.0000494	1000	4.712E-05					10000	4.7046E-05
Cobalt	0	0	100	0.0048973	1000	0.004736					10000	0.0047454
Copper	0	0	100	0.0000647	1000	6.064E-05					10000	5.9416E-05
Iron	0	0	5100	2.088824E-05	10000	1.9771E-05			500000	1.9246E-05	10000	
Lead	0	0	100	0.0012976	1000	0.0012398					10000	0.0012548
Magnesium	0	0	5100		50000	2.0856E-06			500000	2.1546E-06	10000	
Manganese	0	0	100	0.0002851	1000	2.6669E-04	10000	2.6671E-04			10000	
Molybdenum	0	0	100	0.003638	1000	0.0037047					10000	0.0036494
Nickel	0	0	100	0.0031656	1000	0.0030736					10000	0.003087
Potassium	0	0	1000	9.17E-06	10000	1.2314E-05						
Selenium	0	0	100	0.0003794	1000	3.8437E-04					10000	3.7334E-04
Silver	0	0	20	0.000061	500	0.0000568	2000	5.9765E-05				
Sodium	0	0	1000		50000	3.5776E-05						
Strontium	0	0	100	0.001591	1000	0.001526					10000	0.00153
Thallium	0	0	100	0.0006954	1000	6.7951E-04					10000	6.8622E-04
Tin	0	0	50	0.0012736	1000	0.0012985					5000	1.28034E-03
Titanium	0	0	100	0.0002293	1000	2.1582E-04					10000	0.0002168
Vanadium	0	0	100	0.0000523	1000	5.037E-05					10000	5.023E-05
Zinc	0	0	100	0.0067815	1000	0.0067801					10000	0.0066306

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_029	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1291004		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	10/14/11 8:48	10/14/11 9:22

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	5.7908E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.0615E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2661E-05										
Selenium												
Silver												
Sodium	100000	3.5917E-05	500000	3.5442E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_029	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1291004		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	10/14/11 8:48	10/14/11 9:22

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.55405E-05	66.67114	5.845073	175.885	1		0.998	
Antimony	4.08005E-04	66.6844	36.34382	196.7638	0.9999929		0.998	
Arsenic	2.4737E-04	66.73023	16.00157	195.7512	0.9999922		0.998	
Barium	8.02615E-03	66.75725	0.859285	169.26	0.9999648		0.998	
Beryllium	2.00255E-03	66.68778	3.777127	177.134	0.9999988		0.998	
Boron	1.05355E-05	66.6747	3.31435	136.6366	0.9999999		0.998	
Cadmium	0.011921	66.7562	9.168682	192.8443	0.9999697		0.998	
Calcium	4.547509E-05	66.892	3.240838	162.2611	0.999987		0.998	
Chromium	3.58915E-05	66.73614	89.5382	198.5535	0.9999998		0.998	
Cobalt	3.594675E-03	66.69837	3.88533	187.9683	0.9999998		0.998	
Copper	4.6189E-05	66.84572	2.233667	122.8333	0.999998		0.998	
Iron	1.497631E-05	66.8233	14.75768	195.2283	0.9999995		0.998	
Lead	9.4805E-04	66.71669	5.49688	188.601	0.999998		0.998	
Magnesium	1.575425E-06	66.71369	114.436	199.4676	0.9999292		0.998	
Manganese	2.04625E-04	66.80129	2.841225	152.8905	0.9999996		0.998	
Molybdenum	2.748025E-03	66.67509	7.55968	195.3651	0.9999977		0.998	
Nickel	2.33155E-03	66.68938	1.510475	178.628	0.9999996		0.998	
Potassium	8.53625E-06	69.15808	2.250463	130.95	0.9999999		0.998	
Selenium	2.842775E-04	66.68554	10.41256	194.7749	0.9999921		0.998	
Silver	4.439125E-05	66.78479	6.290198	181.4464	0.9998219		0.998	
Sodium	2.678375E-05	66.67082	3.052012	167.8889	0.9999928		0.998	
Strontium	1.16175E-03	66.71581	1.810425	151.8602	0.9999997		0.998	
Thallium	5.152825E-04	66.67865	3.081325	165.654	0.999999		0.998	
Tin	9.6311E-04	66.67561	5.851835	192.0863	0.9999906		0.998	
Titanium	1.6548E-04	66.76973	2.11256	186.2829	0.9999992		0.998	
Vanadium	3.8225E-05	66.71244	3.96463	145.4105	0.9999999		0.998	
Zinc	5.04805E-03	66.68142	5.300215	193.5162	0.9999953		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1292003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/17/11 10:27 10/17/11 11:25

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	2.275E-05	10000	2.2408E-05			500000	2.263E-05		
Antimony	0	0	100	0.0006052	1000	0.0006297					10000	6.0448E-04
Arsenic	0	0	100	0.0003489	1000	3.7207E-04					10000	3.6318E-04
Barium	0	0	50	0.0122228	1000	0.01158	5000	0.0118402				
Beryllium	0	0	100	0.002846	1000	0.0028456					10000	0.002787
Boron	0	0	50	0.0000152	1000	1.528E-05					5000	1.4486E-05
Cadmium	0	0	100	0.017466	1000	0.017629					10000	0.016738
Calcium	0	0	1100	6.588182E-05	50000	6.4372E-05					10000	
Chromium	0	0	100	0.000053	1000	5.156E-05					10000	5.0762E-05
Cobalt	0	0	100	0.0054339	1000	0.0053452					10000	0.0053131
Copper	0	0	100	0.0000725	1000	6.814E-05					10000	6.6153E-05
Iron	0	0	5100	2.208235E-05	10000	2.0929E-05			500000	2.0748E-05	10000	
Lead	0	0	100	0.0014181	1000	0.001382					10000	0.0013865
Magnesium	0	0	5100		50000	2.7512E-06			500000	2.846E-06	10000	
Manganese	0	0	100	0.0002964	1000	0.0002904	10000	2.8642E-04			10000	
Molybdenum	0	0	100	0.0039959	1000	0.0040876					10000	0.0040242
Nickel	0	0	100	0.0034743	1000	0.0033849					10000	0.0034007
Potassium	0	0	1000	9.840001E-06	10000	1.3556E-05						
Selenium	0	0	100	0.0004178	1000	4.2701E-04					10000	0.0004103
Silver	0	0	20	0.0000655	500	6.222E-05	2000	6.5385E-05				
Sodium	0	0	1000		50000	3.8526E-05						
Strontium	0	0	100	0.001699	1000	0.001692					10000	0.001639
Thallium	0	0	100	0.0007599	1000	7.4347E-04					10000	7.4705E-04
Tin	0	0	50	0.0013902	1000	0.0014386					5000	0.0014128
Titanium	0	0	100	0.0002419	1000	2.3878E-04					10000	2.3017E-04
Vanadium	0	0	100	0.0000554	1000	5.519E-05					10000	5.3532E-05
Zinc	0	0	100	0.0073741	1000	0.0074431					10000	0.0073253
Aluminum	0	0	5000	2.275E-05	10000	2.2408E-05			500000	2.263E-05		
Antimony	0	0	100	0.0006052	1000	0.0006297					10000	6.0448E-04
Arsenic	0	0	100	0.0003489	1000	3.7207E-04					10000	3.6318E-04
Barium	0	0	50	0.0122228	1000	0.01158	5000	0.0118402				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1292003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/17/11 10:27 10/17/11 11:25

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	0.002846	1000	0.0028456					10000	0.002787
Boron	0	0	50	0.0000152	1000	1.528E-05					5000	1.4486E-05
Cadmium	0	0	100	0.017466	1000	0.017629					10000	0.016738
Calcium	0	0	1100	6.588182E-05	50000	6.4372E-05					10000	
Chromium	0	0	100	0.000053	1000	5.156E-05					10000	5.0762E-05
Cobalt	0	0	100	0.0054339	1000	0.0053452					10000	0.0053131
Copper	0	0	100	0.0000725	1000	6.814E-05					10000	6.6153E-05
Iron	0	0	5100	2.208235E-05	10000	2.0929E-05			500000	2.0748E-05	10000	
Lead	0	0	100	0.0014181	1000	0.001382					10000	0.0013865
Magnesium	0	0	5100		50000	2.7512E-06			500000	2.846E-06	10000	
Manganese	0	0	100	0.0002964	1000	0.0002904	10000	2.8642E-04			10000	
Molybdenum	0	0	100	0.0039959	1000	0.0040876					10000	0.0040242
Nickel	0	0	100	0.0034743	1000	0.0033849					10000	0.0034007
Potassium	0	0	1000	9.840001E-06	10000	1.3556E-05						
Selenium	0	0	100	0.0004178	1000	4.2701E-04					10000	0.0004103
Silver	0	0	20	0.0000655	500	6.222E-05	2000	6.5385E-05				
Sodium	0	0	1000		50000	3.8526E-05						
Strontium	0	0	100	0.001699	1000	0.001692					10000	0.001639
Thallium	0	0	100	0.0007599	1000	7.4347E-04					10000	7.4705E-04
Tin	0	0	50	0.0013902	1000	0.0014386					5000	0.0014128
Titanium	0	0	100	0.0002419	1000	2.3878E-04					10000	2.3017E-04
Vanadium	0	0	100	0.0000554	1000	5.519E-05					10000	5.3532E-05
Zinc	0	0	100	0.0073741	1000	0.0074431					10000	0.0073253

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1292003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/17/11 10:27 10/17/11 11:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0744E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6511E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3996E-05										
Selenium												
Silver												
Sodium	100000	3.9051E-05	500000	3.8354E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1292003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/17/11 10:27 10/17/11 11:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0744E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6511E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3996E-05										
Selenium												
Silver												
Sodium	100000	3.9051E-05	500000	3.8354E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1292003	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	10/17/11 10:27	10/17/11 11:25	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.6947E-05	66.67191	3.173385	180.5571	1		0.998	
Antimony	4.59845E-04	66.71539	25.72946	197.3122	0.9999823		0.998	
Arsenic	2.710375E-04	66.7596	4.883288	191.7231	0.9999927		0.998	
Barium	8.91075E-03	66.73247	1.106037	151.7512	0.9999772		0.998	
Beryllium	2.11965E-03	66.67949	9.047313	190.7463	0.9999959		0.998	
Boron	1.12415E-05	66.74224	5.625338	183.1228	0.9998784		0.998	
Cadmium	1.295825E-02	66.73365	7.67194	196.0336	0.9999734		0.998	
Calcium	4.774946E-05	66.8194	2.784315	149.2121	0.9999653		0.998	
Chromium	3.88305E-05	66.70931	16.20278	192.7147	0.999998		0.998	
Cobalt	4.02305E-03	66.67876	2.046292	176.1357	0.9999998		0.998	
Copper	5.169825E-05	66.86356	0.3787275	58.33214	0.9999945		0.998	
Iron	1.593984E-05	66.76968	17.27537	193.6889	0.9999997		0.998	
Lead	1.04665E-03	66.68433	9.174115	191.8272	0.9999998		0.998	
Magnesium	2.062075E-06	66.77826	20.62454	198.2347	0.9998155		0.998	
Manganese	2.18305E-04	66.69315	2.163628	144.1497	0.9999984		0.998	
Molybdenum	3.026925E-03	66.6787	5.653787	192.8919	0.9999974		0.998	
Nickel	2.564975E-03	66.68396	1.821675	175.1032	0.9999996		0.998	
Potassium	9.348E-06	69.58523	3.126112	139.5175	0.9999997		0.998	
Selenium	3.137775E-04	66.70223	15.45047	193.9715	0.9999846		0.998	
Silver	4.827625E-05	66.74095	2.770288	162.7183	0.9998326		0.998	
Sodium	2.898275E-05	66.67452	2.470397	161.251	0.9999857		0.998	
Strontium	0.0012575	66.70069	1.763025	150.8983	0.9999902		0.998	
Thallium	5.62605E-04	66.67846	3.41202	183.1272	0.9999997		0.998	
Tin	0.0010604	66.69274	8.630385	196.0489	0.9999843		0.998	
Titanium	1.777125E-04	66.72508	1.550712	175.1213	0.9999881		0.998	
Vanadium	4.10305E-05	66.69776	8.3903	182.2222	0.9999914		0.998	
Zinc	5.535625E-03	66.67238	5.92122	194.1527	0.9999975		0.998	
Aluminum	1.6947E-05	66.67191	3.173385	180.5571	1		0.998	
Antimony	4.59845E-04	66.71539	25.72946	197.3122	0.9999823		0.998	
Arsenic	2.710375E-04	66.7596	4.883288	191.7231	0.9999927		0.998	
Barium	8.91075E-03	66.73247	1.106037	151.7512	0.9999772		0.998	
Beryllium	2.11965E-03	66.67949	9.047313	190.7463	0.9999959		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_029	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1292003		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	10/17/11 10:27	10/17/11 11:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.12415E-05	66.74224	5.625338	183.1228	0.9998784		0.998	
Cadmium	1.295825E-02	66.73365	7.67194	196.0336	0.9999734		0.998	
Calcium	4.774946E-05	66.8194	2.784315	149.2121	0.9999653		0.998	
Chromium	3.88305E-05	66.70931	16.20278	192.7147	0.999998		0.998	
Cobalt	4.02305E-03	66.67876	2.046292	176.1357	0.9999998		0.998	
Copper	5.169825E-05	66.86356	0.3787275	58.33214	0.9999945		0.998	
Iron	1.593984E-05	66.76968	17.27537	193.6889	0.9999997		0.998	
Lead	1.04665E-03	66.68433	9.174115	191.8272	0.9999998		0.998	
Magnesium	2.062075E-06	66.77826	20.62454	198.2347	0.9998155		0.998	
Manganese	2.18305E-04	66.69315	2.163628	144.1497	0.9999984		0.998	
Molybdenum	3.026925E-03	66.6787	5.653787	192.8919	0.9999974		0.998	
Nickel	2.564975E-03	66.68396	1.821675	175.1032	0.9999996		0.998	
Potassium	9.348E-06	69.58523	3.126112	139.5175	0.9999997		0.998	
Selenium	3.137775E-04	66.70223	15.45047	193.9715	0.9999846		0.998	
Silver	4.827625E-05	66.74095	2.770288	162.7183	0.9998326		0.998	
Sodium	2.898275E-05	66.67452	2.470397	161.251	0.9999857		0.998	
Strontium	0.0012575	66.70069	1.763025	150.8983	0.9999902		0.998	
Thallium	5.62605E-04	66.67846	3.41202	183.1272	0.9999997		0.998	
Tin	0.0010604	66.69274	8.630385	196.0489	0.9999843		0.998	
Titanium	1.777125E-04	66.72508	1.550712	175.1213	0.9999881		0.998	
Vanadium	4.10305E-05	66.69776	8.3903	182.2222	0.9999914		0.998	
Zinc	5.535625E-03	66.67238	5.92122	194.1527	0.9999975		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0134

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-01
Sampled:	09/20/11 12:59	Received:	09/21/11 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	0.134	0.110	0.150	0.300	1	J	SM4500NH3BG	1I26908	09/27/11 09:51
18496-25-8	Sulfide	1.00	0.690	1.72	3.45	1	J	SM4500S2CF	1I26937	09/26/11 18:44
10-09-3	Alkalinity, Bicarbonate (as CACO3)	319	1.00	1.00	1.00	1		SM2320B	1I29018	09/29/11 12:17
16887-00-6	Chloride	151	3.40	6.60	20.0	20	M D	E300.0	1J04005	10/04/11 18:58
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1I28008	09/28/11 11:32
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1I29018	09/29/11 12:17
14808-79-8	Sulfate as SO4	20.3	6.60	20.0	40.0	20	J D	E300.0	1J04005	10/04/11 18:58

ANALYSIS DATA SHEET

GW0135

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 09/20/11 12:59
% Solids: 0.00

SDG: Kirtland_029
Project: Kirtland AFB 2011
Laboratory ID: 1109164-03
Received: 09/21/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.115	0.110	0.150	0.300	1	J	SM4500NH3BG	1I26908	09/27/11 09:53
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1I26937	09/26/11 18:45
10-09-3	Alkalinity, Bicarbonate (as CACO3)	316	1.00	1.00	1.00	1		SM2320B	1I29018	09/29/11 12:40
16887-00-6	Chloride	150	3.40	6.60	20.0	20	M D	E300.0	1J04005	10/04/11 19:15
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1I28008	09/28/11 11:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1I29018	09/29/11 12:40
14808-79-8	Sulfate as SO4	20.0	6.60	20.0	40.0	20	J D	E300.0	1J04005	10/04/11 19:15

ANALYSIS DATA SHEET

GW0138

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109164-05
Sampled:	09/19/11 11:37	Received:	09/21/11 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	1I26908	09/27/11 09:54
18496-25-8	Sulfide	1.00	0.690	1.72	3.45	1	J	SM4500S2CF	1I26937	09/26/11 18:45
10-09-3	Alkalinity, Bicarbonate (as CACO3)	206	1.00	1.00	1.00	1		SM2320B	1I29018	09/29/11 13:15
16887-00-6	Chloride	17.2	3.40	6.60	20.0	20	M J D	E300.0	1J04005	10/04/11 19:33
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1I28008	09/28/11 11:35
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1I29018	09/29/11 13:15
14808-79-8	Sulfate as SO4	17.8	6.60	20.0	40.0	20	J D	E300.0	1J04005	10/04/11 19:33

ANALYSIS DATA SHEET

GW0139

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 09/28/11 15:28
% Solids: 0.00

SDG: Kirtland_029
Project: Kirtland AFB 2011
Laboratory ID: 1109252-01
Received: 09/30/11 08:15

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	1J11003	10/13/11 16:06
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1J04017	10/04/11 16:15
10-09-3	Alkalinity, Bicarbonate (as CACO3)	337	1.00	1.00	1.00	1		SM2320B	1J10001	10/10/11 10:47
16887-00-6	Chloride	74.5	3.40	6.60	20.0	20	M D	E300.0	1J04005	10/04/11 22:27
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1J11014	10/11/11 14:17
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1J10001	10/10/11 10:47
14808-79-8	Sulfate as SO4	15.2	6.60	20.0	40.0	20	J D	E300.0	1J04005	10/04/11 22:27

ANALYSIS DATA SHEET

GW0189

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 09/28/11 10:49
% Solids: 0.00

SDG: Kirtland_029
Project: Kirtland AFB 2011
Laboratory ID: 1109252-03
Received: 09/30/11 08:15

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	1J11003	10/13/11 16:07
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1J04017	10/04/11 16:16
10-09-3	Alkalinity, Bicarbonate (as CACO3)	178	1.00	1.00	1.00	1		SM2320B	1J10001	10/10/11 11:10
16887-00-6	Chloride	22.4	3.40	6.60	20.0	20	M D	E300.0	1J04005	10/04/11 22:45
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1J11014	10/11/11 14:18
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1J10001	10/10/11 11:10
14808-79-8	Sulfate as SO4	40.6	6.60	20.0	40.0	20	D	E300.0	1J04005	10/04/11 22:45

ANALYSIS DATA SHEET

GW0210

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1109252-05
Sampled:	09/29/11 10:36	Received:	09/30/11 08:15
% 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	1J11003	10/13/11 16:08
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1J04017	10/04/11 16:17
10-09-3	Alkalinity, Bicarbonate (as CACO3)	286	1.00	1.00	1.00	1		SM2320B	1J10001	10/10/11 11:20
16887-00-6	Chloride	15.5	3.40	6.60	20.0	20	M J D	E300.0	1J04005	10/04/11 23:02
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1J11014	10/11/11 14:20
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1J10001	10/10/11 11:20
14808-79-8	Sulfate as SO4	21.6	6.60	20.0	40.0	20	J D	E300.0	1J04005	10/04/11 23:02

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_029
Project: Kirtland AFB 2011
Calibration: 1266004
Sequence: 1I26606

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1I26606-ICV1	Chloride	4.800	4.600	95.8	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.10	96.3	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_029
Project: Kirtland AFB 2011
Calibration: 1270001
Sequence: 1I27015

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1I27015-ICV1	Ammonia as N	2.000	2.165	108	mg/L	+/- 10.00%
1I27015-CCV1	Ammonia as N	2.000	2.174	109	mg/L	+/- 10.00%
1I27015-CCV2	Ammonia as N	2.000	2.131	107	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_029
Project: Kirtland AFB 2011
Calibration: 1271002
Sequence: 1I27109

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1I27109-ICV1	Nitrate/Nitrite as N	1.200	1.219	102	mg/L	+/- 10.00%
1I27109-CCV1	Nitrate/Nitrite as N	1.200	1.236	103	mg/L	+/- 10.00%
1I27109-CCV2	Nitrate/Nitrite as N	1.200	1.230	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_029
Project: Kirtland AFB 2011
Calibration: 1266004
Sequence: 1J27805

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J27805-CCV1	Chloride	25.00	23.92	95.7	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.28	93.1	mg/L	+/- 10.00%
1J27805-CCV2	Chloride	25.00	23.30	93.2	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	22.91	91.7	mg/L	+/- 10.00%
1J27805-CCV3	Chloride	25.00	23.38	93.5	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.13	92.5	mg/L	+/- 10.00%
1J27805-CCV4	Chloride	25.00	23.11	92.4	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	22.97	91.9	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_029
Project: Kirtland AFB 2011
Calibration: 1284005
Sequence: 1J28410

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28410-ICV1	Nitrate/Nitrite as N	1.200	1.226	102	mg/L	+/- 10.00%
1J28410-CCV1	Nitrate/Nitrite as N	1.200	1.217	101	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_029
Project: Kirtland AFB 2011
Calibration: 1286008
Sequence: 1J28617

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28617-ICV1	Ammonia as N	2.000	2.177	109	mg/L	+/- 10.00%
1J28617-CCV1	Ammonia as N	2.000	2.133	107	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1266004

Sequence: 1J27805

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J27805-CRL1	Chloride	1.000	1.153	115	mg/L	75 - 125
	Sulfate as SO4	1.000	1.193	119	mg/L	75 - 125

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1I26908

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I26908-BLK1	Ammonia as N	-0.0399	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1I26937

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I26937-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1I28008

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I28008-BLK1	Nitrate/Nitrite as N	-0.0181	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1I29018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I29018-BLK1	Alkalinity, Total (as CACO3)	-0.412	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1J04005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J04005-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1J04017

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J04017-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1J10001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J10001-BLK1	Alkalinity, Total (as CACO3)	-0.824	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1J11003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J11003-BLK1	Ammonia as N	-0.0912	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1J11014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J11014-BLK1	Nitrate/Nitrite as N	-0.0229	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1I26606
Calibration: 1266004
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I26606-ICB1	Chloride	0.3150	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1I27015
Calibration: 1270001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I27015-ICB1	Ammonia as N	-0.01722	0.110	0.300	mg/L	U	SM4500NH3BG
1I27015-CCB1	Ammonia as N	-0.0179	0.110	0.300	mg/L	U	SM4500NH3BG
1I27015-CCB2	Ammonia as N	-0.0167	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1I27109
Calibration: 1271002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I27109-ICB1	Nitrate/Nitrite as N	-0.02432	0.0500	0.300	mg/L	U	E353.2
1I27109-CCB1	Nitrate/Nitrite as N	-0.0241	0.0500	0.300	mg/L	U	E353.2
1I27109-CCB2	Nitrate/Nitrite as N	-0.0213	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1J27805
Calibration: 1266004
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J27805-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
1J27805-CCB2	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1J27805-CCB3	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1J27805-CCB4	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1J28410
Calibration: 1284005
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28410-ICB1	Nitrate/Nitrite as N	-0.01614	0.0500	0.300	mg/L	U	E353.2
1J28410-CCB1	Nitrate/Nitrite as N	-0.0204	0.0500	0.300	mg/L	U	E353.2

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_029
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1J28617
Calibration: 1286008
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28617-ICB1	Ammonia as N	-0.00008850	0.110	0.300	mg/L	U	SM4500NH3BG
1J28617-CCB1	Ammonia as N	0.0171	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0134

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1I26908

% Solids:

Source Sample Name: **1109164-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	0.1338	4.334	84.0		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0134

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1I29018

% Solids:

Source Sample Name: **1109164-01**

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	319.3	436.7	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	437.6	107	0.209		20	75 - 125

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I26908	Laboratory ID:	1I26908-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	4.438	88.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I26937	Laboratory ID:	1I26937-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	917.0	1050	115	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	917.0	1034	113	1.60	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I28008	Laboratory ID:	1I28008-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	32.00	31.90	99.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1I29018	Laboratory ID:	1I29018-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	1024	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J04005	Laboratory ID:	1J04005-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.473	93.2	90 - 110
Sulfate as SO4	24.00	21.91	91.3	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J04017	Laboratory ID:	1J04017-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	917.0	983.7	107	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	917.0	967.0	105	1.71	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J10001	Laboratory ID:	1J10001-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	1057	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J11003	Laboratory ID:	1J11003-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	4.430	88.6	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1J11014	Laboratory ID:	1J11014-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	32.00	32.00	100	80 - 120

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I26908 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/26/11 08:11	100.00	100.00
GW0135	1109164-03	09/26/11 08:11	100.00	100.00
GW0138	1109164-05	09/26/11 08:11	100.00	100.00
Blank	1I26908-BLK1	09/26/11 08:11	100.00	100.00
LCS	1I26908-BS1	09/26/11 08:11	100.00	100.00
GW0134	1I26908-MS1	09/26/11 08:11	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I26937 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/26/11 16:45	290.00	200.00
GW0135	1109164-03	09/26/11 16:45	290.00	200.00
GW0138	1109164-05	09/26/11 16:45	290.00	200.00
Blank	1I26937-BLK1	09/26/11 16:45	250.00	200.00
LCS	1I26937-BS1	09/26/11 16:45	3.00	250.00
LCS Dup	1I26937-BSD1	09/26/11 16:45	3.00	250.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I28008 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/28/11 08:44	4.00	20.00
GW0135	1109164-03	09/28/11 08:44	4.00	20.00
GW0138	1109164-05	09/28/11 08:44	4.00	20.00
Blank	1I28008-BLK1	09/28/11 08:44	20.00	20.00
LCS	1I28008-BS1	09/28/11 08:44	1.00	20.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1I29018 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	09/29/11 09:34	25.00	25.00
GW0135	1109164-03	09/29/11 09:34	25.00	25.00
GW0138	1109164-05	09/29/11 09:34	25.00	25.00
Blank	1I29018-BLK1	09/29/11 09:34	25.00	25.00
LCS	1I29018-BS1	09/29/11 09:34	5.00	25.00
GW0134	1I29018-MS1	09/29/11 09:34	22.50	25.00
GW0134	1I29018-MSD1	09/29/11 09:34	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J04005 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0134	1109164-01	10/04/11 09:40	5.00	5.00
GW0135	1109164-03	10/04/11 09:40	5.00	5.00
GW0138	1109164-05	10/04/11 09:40	5.00	5.00
GW0139	1109252-01	10/04/11 09:40	5.00	5.00
GW0189	1109252-03	10/04/11 09:40	5.00	5.00
GW0210	1109252-05	10/04/11 09:40	5.00	5.00
Blank	1J04005-BLK1	10/04/11 09:40	5.00	5.00
LCS	1J04005-BS1	10/04/11 09:40	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J04017 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/04/11 15:33	290.00	200.00
GW0189	1109252-03	10/04/11 15:33	290.00	200.00
GW0210	1109252-05	10/04/11 15:33	290.00	200.00
Blank	1J04017-BLK1	10/04/11 15:33	250.00	200.00
LCS	1J04017-BS1	10/04/11 15:33	3.00	250.00
LCS Dup	1J04017-BSD1	10/04/11 15:33	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J10001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/10/11 07:45	25.00	25.00
GW0189	1109252-03	10/10/11 07:45	25.00	25.00
GW0210	1109252-05	10/10/11 07:45	25.00	25.00
Blank	1J10001-BLK1	10/10/11 07:45	25.00	25.00
LCS	1J10001-BS1	10/10/11 07:45	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J11003 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/11/11 07:34	100.00	100.00
GW0189	1109252-03	10/11/11 07:34	100.00	100.00
GW0210	1109252-05	10/11/11 07:34	100.00	100.00
Blank	1J11003-BLK1	10/11/11 07:34	100.00	100.00
LCS	1J11003-BS1	10/11/11 07:34	100.00	100.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_029

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

Batch: 1J11014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0139	1109252-01	10/11/11 11:20	4.00	20.00
GW0189	1109252-03	10/11/11 11:20	4.00	20.00
GW0210	1109252-05	10/11/11 11:20	4.00	20.00
Blank	1J11014-BLK1	10/11/11 11:20	20.00	20.00
LCS	1J11014-BS1	10/11/11 11:20	1.00	20.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1I29018-BS1	092911-003	09/29/11 11:45
Blank	1I29018-BLK1	092911-004	09/29/11 11:53
GW0134	1I29018-MS1	092911-011	09/29/11 14:25
GW0134	1I29018-MSD1	092911-012	09/29/11 14:35
LCS	1J10001-BS1	101011-003	10/10/11 10:40
Blank	1J10001-BLK1	101011-004	10/10/11 10:45

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_029

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1I26937-BLK1	092611-003	09/26/11 18:40
LCS	1I26937-BS1	092611-002	09/26/11 18:41
LCS Dup	1I26937-BSD1	092611-004	09/26/11 18:42
LCS	1J04017-BS1	100411-002	10/04/11 16:12
LCS Dup	1J04017-BSD1	100411-004	10/04/11 16:13
Blank	1J04017-BLK1	100411-003	10/04/11 16:14

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26606	Instrument:	WC-IC
Calibration:	1266004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I26606-CAL1	091511-001	09/15/11 21:48
Cal Standard	1I26606-CAL2	091511-002	09/15/11 22:05
Cal Standard	1I26606-CAL3	091511-003	09/15/11 22:23
Cal Standard	1I26606-CAL4	091511-004	09/15/11 22:40
Cal Standard	1I26606-CAL5	091511-005	09/15/11 22:58
Cal Standard	1I26606-CAL6	091511-006	09/15/11 23:15
Cal Standard	1I26606-CAL7	091511-007	09/15/11 23:33
Cal Standard	1I26606-CAL8	091511-008	09/15/11 23:50
Initial Cal Check	1I26606-ICV1	091511-009	09/16/11 00:07
Initial Cal Blank	1I26606-ICB1	091511-010	09/16/11 00:25

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27015	Instrument:	WC-Lachat
Calibration:	1270001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I27015-CAL1	M_9-27-2011_09-26-40AM-00	09/27/11 09:28
Cal Standard	1I27015-CAL3	M_9-27-2011_09-26-40AM-00	09/27/11 09:29
Cal Standard	1I27015-CAL2	M_9-27-2011_09-26-40AM-00	09/27/11 09:29
Cal Standard	1I27015-CAL4	M_9-27-2011_09-26-40AM-00	09/27/11 09:30
Cal Standard	1I27015-CAL5	M_9-27-2011_09-26-40AM-00	09/27/11 09:31
Cal Standard	1I27015-CAL6	M_9-27-2011_09-26-40AM-00	09/27/11 09:32
Cal Standard	1I27015-CAL7	M_9-27-2011_09-26-40AM-00	09/27/11 09:33
Cal Standard	1I27015-CAL8	M_9-27-2011_09-26-40AM-00	09/27/11 09:34
Initial Cal Check	1I27015-ICV1	M_9-27-2011_09-26-40AM-00	09/27/11 09:35
Initial Cal Blank	1I27015-ICB1	M_9-27-2011_09-26-40AM-01	09/27/11 09:36
Blank	1I26908-BLK1	M_9-27-2011_09-26-40AM-01	09/27/11 09:37
LCS	1I26908-BS1	M_9-27-2011_09-26-40AM-01	09/27/11 09:38
Calibration Check	1I27015-CCV1	M_9-27-2011_09-26-40AM-02	09/27/11 09:49
Calibration Blank	1I27015-CCB1	M_9-27-2011_09-26-40AM-02	09/27/11 09:50
GW0134	1109164-01	M_9-27-2011_09-26-40AM-02	09/27/11 09:51
GW0134	1I26908-MS1	M_9-27-2011_09-26-40AM-02	09/27/11 09:52
GW0135	1109164-03	M_9-27-2011_09-26-40AM-02	09/27/11 09:53
GW0138	1109164-05	M_9-27-2011_09-26-40AM-02	09/27/11 09:54
Calibration Check	1I27015-CCV2	M_9-27-2011_09-26-40AM-03	09/27/11 09:57
Calibration Blank	1I27015-CCB2	M_9-27-2011_09-26-40AM-03	09/27/11 09:58

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I27109	Instrument:	WC-Lachat
Calibration:	1271002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I27109-CAL1	M_9-28-2011_10-39-03AM-00	09/28/11 10:40
Cal Standard	1I27109-CAL2	M_9-28-2011_10-39-03AM-00	09/28/11 10:41
Cal Standard	1I27109-CAL3	M_9-28-2011_10-39-03AM-00	09/28/11 10:42
Cal Standard	1I27109-CAL4	M_9-28-2011_10-39-03AM-00	09/28/11 10:44
Cal Standard	1I27109-CAL5	M_9-28-2011_10-39-03AM-00	09/28/11 10:45
Cal Standard	1I27109-CAL6	M_9-28-2011_10-39-03AM-00	09/28/11 10:47
Cal Standard	1I27109-CAL7	M_9-28-2011_10-39-03AM-00	09/28/11 10:48
Cal Standard	1I27109-CAL8	M_9-28-2011_10-39-03AM-00	09/28/11 10:50
Initial Cal Check	1I27109-ICV1	M_9-28-2011_10-39-03AM-00	09/28/11 10:51
Initial Cal Blank	1I27109-ICB1	M_9-28-2011_10-39-03AM-01	09/28/11 10:53
Calibration Check	1I27109-CCV1	M_9-28-2011_10-39-03AM-03	09/28/11 11:23
Calibration Blank	1I27109-CCB1	M_9-28-2011_10-39-03AM-03	09/28/11 11:24
Blank	1I28008-BLK1	M_9-28-2011_10-39-03AM-03	09/28/11 11:29
LCS	1I28008-BS1	M_9-28-2011_10-39-03AM-03	09/28/11 11:30
GW0134	1109164-01	M_9-28-2011_10-39-03AM-03	09/28/11 11:32
GW0135	1109164-03	M_9-28-2011_10-39-03AM-03	09/28/11 11:33
GW0138	1109164-05	M_9-28-2011_10-39-03AM-03	09/28/11 11:35
Calibration Check	1I27109-CCV2	M_9-28-2011_10-39-03AM-04	09/28/11 11:39
Calibration Blank	1I27109-CCB2	M_9-28-2011_10-39-03AM-04	09/28/11 11:41

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J27805	Instrument:	WC-IC
Calibration:	1266004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J27805-CCV1	100411-002	10/04/11 13:44
Calibration Blank	1J27805-CCB1	100411-003	10/04/11 14:02
Instrument RL Check	1J27805-CRL1	100411-004	10/04/11 14:19
LCS	1J04005-BS1	100411-006	10/04/11 14:54
Blank	1J04005-BLK1	100411-007	10/04/11 15:11
Calibration Check	1J27805-CCV2	100411-018	10/04/11 18:23
Calibration Blank	1J27805-CCB2	100411-019	10/04/11 18:41
GW0134	1109164-01	100411-020	10/04/11 18:58
GW0135	1109164-03	100411-021	10/04/11 19:15
GW0138	1109164-05	100411-022	10/04/11 19:33
Calibration Check	1J27805-CCV3	100411-030	10/04/11 21:52
Calibration Blank	1J27805-CCB3	100411-031	10/04/11 22:10
GW0139	1109252-01	100411-032	10/04/11 22:27
GW0189	1109252-03	100411-033	10/04/11 22:45
GW0210	1109252-05	100411-034	10/04/11 23:02
Calibration Check	1J27805-CCV4	100411-042	10/05/11 01:22
Calibration Blank	1J27805-CCB4	100411-043	10/05/11 01:39

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28410	Instrument:	WC-Lachat
Calibration:	1284005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28410-CAL1	M_10-11-2011_01-51-46PM-0	10/11/11 13:52
Cal Standard	1J28410-CAL2	M_10-11-2011_01-51-46PM-0	10/11/11 13:54
Cal Standard	1J28410-CAL3	M_10-11-2011_01-51-46PM-0	10/11/11 13:55
Cal Standard	1J28410-CAL4	M_10-11-2011_01-51-46PM-0	10/11/11 13:57
Cal Standard	1J28410-CAL5	M_10-11-2011_01-51-46PM-0	10/11/11 13:58
Cal Standard	1J28410-CAL6	M_10-11-2011_01-51-46PM-0	10/11/11 13:59
Cal Standard	1J28410-CAL7	M_10-11-2011_01-51-46PM-0	10/11/11 14:01
Cal Standard	1J28410-CAL8	M_10-11-2011_01-51-46PM-0	10/11/11 14:02
Initial Cal Check	1J28410-ICV1	M_10-11-2011_01-51-46PM-0	10/11/11 14:04
Initial Cal Blank	1J28410-ICB1	M_10-11-2011_01-51-46PM-0	10/11/11 14:05
Blank	1J11014-BLK1	M_10-11-2011_01-51-46PM-0	10/11/11 14:10
LCS	1J11014-BS1	M_10-11-2011_01-51-46PM-0	10/11/11 14:11
GW0139	1109252-01	M_10-11-2011_01-51-46PM-0	10/11/11 14:17
GW0189	1109252-03	M_10-11-2011_01-51-46PM-0	10/11/11 14:18
GW0210	1109252-05	M_10-11-2011_01-51-46PM-0	10/11/11 14:20
Calibration Check	1J28410-CCV1	M_10-11-2011_01-51-46PM-0	10/11/11 14:24
Calibration Blank	1J28410-CCB1	M_10-11-2011_01-51-46PM-0	10/11/11 14:26

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_029
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1J28617	Instrument:	WC-Lachat
Calibration:	1286008		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28617-CAL1	M_10-13-2011_03-53-53PM-0	10/13/11 15:54
Cal Standard	1J28617-CAL2	M_10-13-2011_03-53-53PM-0	10/13/11 15:55
Cal Standard	1J28617-CAL3	M_10-13-2011_03-53-53PM-0	10/13/11 15:56
Cal Standard	1J28617-CAL4	M_10-13-2011_03-53-53PM-0	10/13/11 15:57
Cal Standard	1J28617-CAL5	M_10-13-2011_03-53-53PM-0	10/13/11 15:58
Cal Standard	1J28617-CAL6	M_10-13-2011_03-53-53PM-0	10/13/11 15:59
Cal Standard	1J28617-CAL7	M_10-13-2011_03-53-53PM-0	10/13/11 16:00
Cal Standard	1J28617-CAL8	M_10-13-2011_03-53-53PM-0	10/13/11 16:01
Initial Cal Check	1J28617-ICV1	M_10-13-2011_03-53-53PM-0	10/13/11 16:02
Initial Cal Blank	1J28617-ICB1	M_10-13-2011_03-53-53PM-0	10/13/11 16:03
Blank	1J11003-BLK1	M_10-13-2011_03-53-53PM-0	10/13/11 16:04
LCS	1J11003-BS1	M_10-13-2011_03-53-53PM-0	10/13/11 16:05
GW0139	1109252-01	M_10-13-2011_03-53-53PM-0	10/13/11 16:06
GW0189	1109252-03	M_10-13-2011_03-53-53PM-0	10/13/11 16:07
GW0210	1109252-05	M_10-13-2011_03-53-53PM-0	10/13/11 16:08
Calibration Check	1J28617-CCV1	M_10-13-2011_03-53-53PM-0	10/13/11 16:15
Calibration Blank	1J28617-CCB1	M_10-13-2011_03-53-53PM-0	10/13/11 16:16