ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_068

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

SUBMITTAL TO:
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SHAW E&I, Inc.
4005 Port Chicago Highway
Concord, CA 94520

SUBMITTAL BY:
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Original Report Date: November 19, 2012
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 597

THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

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

Table of Contents

#	Description	Page No.
1	Cover Page	1
2	Table of Contents	2
3	Case Narrative	3
4	Sample Receipt Information Chain of Custody Forms Sample Receipt Confirmations WorkOrder Summary Sample Delivery Group (SDG) Sheets	11
5	Data for SW8260B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	45
6	Data for SW8270D BNA Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	161
7	Data for SW8011 Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	256
8	Data for SW8015B DRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	321
9	Data for SW8015B GRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	368
10	Data for SW6010B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	399
11	Data for Wet Chemistry Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	497

Sample Delivery Group Case Narrative

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

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

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

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

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

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

SW8260B:
The following batch spikes exceeded criteria:
2J31022-BS1 with a negative bias for Chlorobenzene

The following continuing calibration verifications exceeded criteria:
2J30502-CCV1 with a negative bias for Acetone, 2-Butanone, 1,1-Dichloroethene, Hexachlorobutadiene, and Tetrachloroethene
2K30602-CCV1 with a negative bias for Hexachlorobutadiene and a positive bias for Vinyl Chloride
2K31306-CCV1 with a negative bias for Bromomethane and 1,2-Dichloroethane and a positive bias for Hexachlorobutadiene, Isopropylbenzene, Styrene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene
2K31408-CCV1 with a positive bias for n-Butylbenzene, Carbon Disulfide, Hexachlorobutadiene, 1,1,1,2-Tetrachloroethane, Tetrachloroethene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene and with a negative bias for 2-Chlorotoluene, 1,2-Dichloroethane, and 1,1,2,2-Tetrachloroethane

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

SW8270D BNA:
The following batch spikes exceeded criteria:
2J30408-BS1 with a positive bias for Bis(2-chloroethoxy)methane
2J31026-BS1/BSD1 with a positive bias for Acenaphthylene, Anthracene, Butylbenzylphthalate, Benzo(a)anthracene, Benzo(a)pyrene, Carbazole, Bis(2-chloroethoxy)methane, Chrysene, Dibenzofuran, Di-n-butylphthalate, 3,3'-Dichlorobenzidine, Fluoranthene, Naphthalene, 4-Nitroaniline, and 2-Nitroaniline and exceeded relative percent difference criteria for Benzoic Acid

The following continuing calibration verifications exceeded criteria:
2J30509-CCV1 with a positive bias for 2,4-Dinitrophenol
2J30509-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2K30609-CCV1 with a positive bias for 2,4-Dinitrophenol and 2-Nitrophenol
2K30609-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2K30214-CCV1 with a positive bias for Benzo(b)fluoranthene, 4,6-Dinitro-2-methylphenol, 2-Nitrophenol, and Terphenyl-d14
2K30214-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine

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

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

The following continuing calibration verifications exceeded criteria:
2K31606-CCV2 with a negative bias for 1,3-Dibromopropane on column 2

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

SW8015B DRO:
The following surrogates exceeded criteria:
o-Terphenyl with a negative bias in 1210294-03

The following continuing calibration verifications exceeded criteria:
2K30712-CCV1 with a negative bias for o-Terphenyl
2K30717-CCV1 with a negative bias for o-Terphenyl
2K30712-CCV2 with a negative bias for o-Terphenyl

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

SW8015B GRO:
The following surrogates exceeded criteria:
Bromofluorobenzene with a positive bias in 2J30412-BS1

The following blanks have reported results:
2J30412-BLK1 for Gasoline Range Organics; note – no positive results were detected in the associated samples

The following continuing calibration verifications exceeded criteria:
2K31717-CCV1 with a negative bias for Bromofluorobenzene
2K31717-CCV2 with a negative bias for Gasoline Range Organics and Bromofluorobenzene

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

SW6010B:
No anomalies or deviations are noted.

Wet Chemistry:
The following compounds are qualified with an M to indicate that the LOQ was raised to the level of the reporting limit standard within criteria:
Chloride (1.0mg/L) in 1210274-01 and -03
Chloride (2.5mg/L) in 1211075-02
Sulfate as SO4 (2.5 mg/L) in 1210274-01, -03, 1210294-01, -03, and 1211075-02

The following blanks have reported results:
2J31024-BLK1 for Ammonia; note – no positive results in associated samples
2K30608-CCB4 for Chloride; note – positive results in associated samples greater than 10x the concentration in the blank
2K30608-ICB1 for Chloride; note – positive results in associated samples greater than 10x the concentration in the blank
2K30608-CCB5 for Chloride; note – positive results in associated samples greater than 10x the concentration in the blank
2K31014-CCB2 for Chloride; note – positive results in associated samples greater than 10x the concentration in the blank
2K31014-CCB3 for Chloride; note – positive results in associated samples greater than 10x the concentration in the blank

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

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

Analytical Report Terms and Qualifiers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

S: The associated internal standard exceeded criteria.

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

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

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

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

LIMS Definitions / Naming Conventions:

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

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

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

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

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

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

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

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

ORGANIC CALCULATIONS

GC/MS Volatiles

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

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

GC/MS Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

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

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1210274

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW237

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

Samples Shipment Date: 29 OCT 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619765

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) D J Shaw Date: 10-29-12 Time: 1630
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack deville Date: 10-30-12 Time: 840

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	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

1210274

Shaw™
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW237

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0879	KAFB-106208-WG-GW0879-REG	29 OCT 2012	14:32	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0880	KAFB-106209-WG-GW0880-REG	29 OCT 2012	11:49	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
05	GW8237-TB	FIELDQC-BW-GW8237-TB-TB	29 OCT 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/30/12 @ 0840 Workorder# 1210274

1. Tracking # 9765 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.2 °C + *correction factor (+ 0.2)* = 0.4 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Benjamin Wright 12/02 74

From: Lorraine Noronha [lnoronha@empirlabs.com]

Sent: Tuesday, October 30, 2012 7:07 AM

To: samplereceiving@EmpirLabs.com

Cc: BRichard@EmpirLabs.com

Subject: Kirtland Rush Samples

There will be 3-samples coming in today for a 3-day rush, please notify everyone through announcements as soon as they are tagged. Thank you.

Brian: please review the COC immediately and provide Pam with the SRC. Thank you.

Lorraine Noronha
President
Empirical Laboratories, LLC
"Your National Small Business Partner"
621 Mainstream Drive, Suite 270 I Nashville, TN 37228 I Website I Map & Directions
Main: 615.345.1115 I Toll free: 877.345.1113 I Cell: 615.500.3232 I Fax: 866.417.0548

Celebrating 45 years of excellence, Empirical Laboratories is certified as a Woman-Owned Small Business and a Small Disadvantaged Business. Come visit our website at http://www.empirlabs.com today.

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1210292/1210294

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

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

Samples Shipment Date: 30 OCT 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619776

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) DMR Shaw Date: 10-30-12 Time: 1630
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack deville Date: 10-31-12 Time: 830

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 GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

1210292/1210294

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
02	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
04	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
07	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
08	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			N		

1210292/1210294

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								SW846 6010C					
07	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
09	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
10	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
10	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

1210292/1210294

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
09	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
11	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
12	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
02	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

1210292/1210294

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
03	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
04	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
05	GW8238-TB	FIELDQC-BW-GW8238-TB-TB	30 OCT 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292/1210294

1. Tracking # 9776 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.3 °C + *correction factor (+ 0.2)* = 3.5 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292/1210294

1. Tracking # 9787 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.7 °C + *correction factor (+ 0.2)* = 2.9 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292/1210294

1. Tracking # 9798 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.3 °C + *correction factor (+ 0.2)* = 3.5 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292/1210294

1. Tracking # 9802 (last 4 digits, FedEx)

   Courier: ___FED-EX

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

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292/1210294

1. Tracking # 9813 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.4 °C + *correction factor (+ 0.2)* = 2.6 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292/1210294

1. Tracking # 9824 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.2 °C + *correction factor (+ 0.2)* = 3.4 °C

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

Shaw™ 1211062

Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW240

Project Number: 140705

Project Name: Kirtland AFB

Sample Coordinator: Mark Lyon

Turnaround Time:

Samples Shipment Date: 06 NOV 2012

Lab Destination: Empirical Laboratories, Inc.

Lab Contact: Sonya Gordon

Project Contact: Pamela Moss

Carrier/Waybill No.: Fed Ex/488306619927

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

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

Special Instructions:

Possible Hazard Indentification:

Non-hazard ✓ Flammable ☐ Skin Irritant ☐ Poison B ☐ Radiological ☐ Unknown ☐

Sample Disposal:

Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

1. Relinquished By (Signature/Affiliation) Shaw Date: 11-6-12 Time: 1700

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:

2. Received By (Signature/Affiliation) Date: 11/7/12 Time: 0835

3. Received By (Signature/Affiliation) Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW240

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							Ammonia by SM4500B					
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0761	KAFB-106009-WG-GW0761-REG	05 NOV 2012	10:14	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0765	KAFB-106014-WG-GW0765-REG	05 NOV 2012	13:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0773	KAFB-106021-WG-GW0773-REG	06 NOV 2012	12:02	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0773-MS	KAFB-106021-WG-GW0773-MS-MS	06 NOV 2012	12:02	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW240

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

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW240

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

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/07/12 @ 0835 Workorder# 1211062

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

   Courier: ___FED-EX

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

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

1211074/1211075

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW241

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

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

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) [signature] 11-07-12 Shaw Date: 11-07-12 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) jack deville jr. Date: 11-08-12 Time: 835
3. Received By (Signature/Affiliation) jack deville jr. Date: 11-08-12 Time: 835

Comments:

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

1211074/1211075

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW241

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0772	KAFB-106020-WG-GW0772-REG	07 NOV 2012	10:39	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
03	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0828	KAFB-106073-WG-GW0828-REG	07 NOV 2012	12:59	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
05	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
06	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0830	KAFB-106075-WG-GW0830-REG	07 NOV 2012	15:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0876R	KAFB-106205-WG-GW0876R-REG	07 NOV 2012	10:15	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
01	GW0876R	KAFB-106205-WG-GW0876R-REG	07 NOV 2012	10:15	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
02	GW0878	KAFB-106207-WG-GW0878-REG	07 NOV 2012	14:33	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		

1211074/1211075

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW241

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

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/08/12 @ 0835

Workorder# 1211074/1211075

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

   Courier: ___FED-EX

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

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

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

   If yes, how many and where: 1 FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/08/12 @ 0835

Workorder# 1211074/1211075

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

   Courier: ___FED-EX

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

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/08/12 @ 0835

Workorder# 1211074/1211074

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

   Courier: ___FED-EX

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

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

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

   If yes, how many and where: 1-FRONT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Details:

WORK ORDER

Printed: 11/9/2012 10:24:03AM

1210274

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

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

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

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

Received By: Jack Deville
Date Received: 10/30/2012 08:40
Logged In By: Jack Deville
Date Logged In: 10/30/2012 09:30

Samples Received at: **0.4°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1210274-01 GW0879 [Water] Sampled 10/29/2012 14:32 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/02/2012 14:00	3	11/05/2012 15:32	
SW8011	SGC_EDB_8011	11/02/2012 14:00	3	11/12/2012 15:32	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/02/2012 14:00	3	11/05/2012 15:32	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/02/2012 14:00	3	11/12/2012 15:32	
SW8260B	VOC_8260B_REG	11/02/2012 14:00	3	11/12/2012 15:32	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/02/2012 14:00	3	11/12/2012 15:32	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/02/2012 14:00	3	11/26/2012 15:32	
E300.0	WC_ANIONS_300.0 (Regular)	11/02/2012 14:00	3	11/26/2012 15:32	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/02/2012 14:00	3	11/26/2012 15:32	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/02/2012 14:00	3	11/05/2012 15:32	
SW6010B	MET_ICP_6010B_FULL	11/02/2012 14:00	3	04/27/2013 15:32	Ca, Pb, K, Na, Mg
1210274-02 GW0879 [Water] Sampled 10/29/2012 14:32 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/02/2012 14:00	3	04/27/2013 15:32	Fe & Mn

1210274

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210274-03 GW0880 [Water] Sampled 10/29/2012 11:49 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/02/2012 14:00	3	11/05/2012 12:49	
SW8011	SGC_EDB_8011	11/02/2012 14:00	3	11/12/2012 12:49	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/02/2012 14:00	3	11/05/2012 12:49	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/02/2012 14:00	3	11/12/2012 12:49	
SW8260B	VOC_8260B_REG	11/02/2012 14:00	3	11/12/2012 12:49	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/02/2012 14:00	3	11/12/2012 12:49	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/02/2012 14:00	3	11/26/2012 12:49	
E300.0	WC_ANIONS_300.0 (Regular)	11/02/2012 14:00	3	11/26/2012 12:49	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/02/2012 14:00	3	11/26/2012 12:49	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/02/2012 14:00	3	11/05/2012 12:49	
SW6010B	MET_ICP_6010B_FULL	11/02/2012 14:00	3	04/27/2013 12:49	Ca, Pb, K, Na, Mg
1210274-04 GW0880 [Water] Sampled 10/29/2012 11:49 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/02/2012 14:00	3	04/27/2013 12:49	Fe & Mn
1210274-05 GW8237-TB [Water] Sampled 10/29/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	11/02/2012 14:00	3	11/12/2012 09:00	naphthalene must be reported

Reviewed By

Date

WORK ORDER

Printed: 11/9/2012 10:26:09AM

1210294

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

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

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

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

Received By: Jack Deville
Date Received: 10/31/2012 08:30
Logged In By: Jack Deville
Date Logged In: 10/31/2012 12:15

Samples Received at: **3.5°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1210294-01 GW0876 [Water] Sampled 10/30/2012 14:42 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/05/2012 14:00	3	11/06/2012 15:42	
SW8011	SGC_EDB_8011	11/05/2012 14:00	3	11/13/2012 15:42	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/05/2012 14:00	3	11/06/2012 15:42	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/05/2012 14:00	3	11/13/2012 15:42	
SW8260B	VOC_8260B_REG	11/05/2012 14:00	3	11/13/2012 15:42	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/05/2012 14:00	3	11/13/2012 15:42	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/05/2012 14:00	3	11/27/2012 15:42	
E300.0	WC_ANIONS_300.0 (Regular)	11/05/2012 14:00	3	11/27/2012 15:42	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/05/2012 14:00	3	11/27/2012 15:42	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/05/2012 14:00	3	11/06/2012 15:42	
SW6010B	MET_ICP_6010B_FULL	11/05/2012 14:00	3	04/28/2013 15:42	Ca, Pb, K, Na, Mg
1210294-02 GW0876 [Water] Sampled 10/30/2012 14:42 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/05/2012 14:00	3	04/28/2013 15:42	Fe & Mn

1210294

Empirical Laboratories, LLC

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

Method	Test Code	Due	TAT	Expires	Comments
1210294-03 GW0877 [Water] Sampled 10/30/2012 12:04 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/05/2012 14:00	3	11/06/2012 13:04	
SW8011	SGC_EDB_8011	11/05/2012 14:00	3	11/13/2012 13:04	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/05/2012 14:00	3	11/06/2012 13:04	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/05/2012 14:00	3	11/13/2012 13:04	
SW8260B	VOC_8260B_REG	11/05/2012 14:00	3	11/13/2012 13:04	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/05/2012 14:00	3	11/13/2012 13:04	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/05/2012 14:00	3	11/27/2012 13:04	
E300.0	WC_ANIONS_300.0 (Regular)	11/05/2012 14:00	3	11/27/2012 13:04	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/05/2012 14:00	3	11/27/2012 13:04	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/05/2012 14:00	3	11/06/2012 13:04	
SW6010B	MET_ICP_6010B_FULL	11/05/2012 14:00	3	04/28/2013 13:04	Ca, Pb, K, Na, Mg
1210294-04 GW0877 [Water] Sampled 10/30/2012 12:04 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/05/2012 14:00	3	04/28/2013 13:04	Fe & Mn
1210294-05 GW8238-TB [Water] Sampled 10/30/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	11/05/2012 14:00	3	11/13/2012 09:00	naphthalene must be reported

Reviewed By

Date

WORK ORDER

Printed: 11/9/2012 10:27:30AM

1211062

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

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

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

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

Received By: Benjamin C. Wright
Date Received: 11/07/2012 08:30
Logged In By: Benjamin C. Wright
Date Logged In: 11/07/2012 10:56

Samples Received at: **1°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1211062-01 GW0877R [Water] Sampled 11/06/2012 16:18 Central 'Client Sample'					
SW8260B	VOC_8260B_REG	11/12/2012 14:00	3	11/20/2012 16:18	naphthalene must be reported
SW8011	SGC_EDB_8011	11/12/2012 14:00	3	11/20/2012 16:18	Run dilutions based on 8260 results!
1211062-02 GW0880R [Water] Sampled 11/06/2012 11:51 US Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	11/12/2012 14:00	3	11/20/2012 12:51	naphthalene must be reported
SW8011	SGC_EDB_8011	11/12/2012 14:00	3	11/20/2012 12:51	Run dilutions based on 8260 results!

Reviewed By

Date

WORK ORDER

Printed: 11/9/2012 10:00:11AM

1211075

Empirical Laboratories, LLC

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

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

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

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

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

Received By: Jack Deville
Date Received: 11/08/2012 08:35
Logged In By: Jack Deville
Date Logged In: 11/08/2012 11:13

Samples Received at: **0.5°C**

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

Method	Test Code	Due	TAT	Expires	Comments
1211075-01 GW0876R [Water] Sampled 11/07/2012 10:15 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	11/13/2012 14:00	3	11/21/2012 11:15	naphthalene must be reported
SW8011	SGC_EDB_8011	11/13/2012 14:00	3	11/21/2012 11:15	Run dilutions based on 8260 results!
1211075-02 GW0878 [Water] Sampled 11/07/2012 14:33 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	11/13/2012 14:00	3	11/14/2012 15:33	
E353.2	WC_NO3NO2_N_353.2	11/13/2012 14:00	3	12/05/2012 15:33	
E300.0	WC_ANIONS_300.0 (Regular)	11/13/2012 14:00	3	12/05/2012 15:33	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/13/2012 14:00	3	12/05/2012 15:33	
SM2320B	WC_ALKALINITY_2320B	11/13/2012 14:00	3	11/21/2012 15:33	carb/bicarb
SW8260B	VOC_8260B_REG	11/13/2012 14:00	3	11/21/2012 15:33	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	11/13/2012 14:00	3	11/21/2012 15:33	
SW8270D	SMS_BNA_8270D_3510_REG	11/13/2012 14:00	3	11/14/2012 15:33	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/13/2012 14:00	3	11/21/2012 15:33	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	11/13/2012 14:00	3	11/14/2012 15:33	
SW6010B	MET_ICP_6010B_FULL	11/13/2012 14:00	3	05/06/2013 15:33	Ca, Pb, K, Na, Mg
1211075-03 GW0878 [Water] Sampled 11/07/2012 14:33 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/13/2012 14:00	3	05/06/2013 15:33	Fe & Mn

Reviewed By

Date

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_068

QC LEVEL: Level IV
Report Due: 11/16/2012
Client Sample Count: 13

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF
Client Sample	10/29/2012	10/30/2012	1210274-01	GW0879	Water	X	X	X	X	X
Client Sample	10/29/2012	10/30/2012	1210274-02	GW0879	Water					
Client Sample	10/29/2012	10/30/2012	1210274-03	GW0880	Water	X	X	X	X	X
Client Sample	10/29/2012	10/30/2012	1210274-04	GW0880	Water					
Trip Blank	10/29/2012	10/30/2012	1210274-05	GW8237-TB	Water					
Client Sample	10/30/2012	10/31/2012	1210294-01	GW0876	Water	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210294-02	GW0876	Water					
Client Sample	10/30/2012	10/31/2012	1210294-03	GW0877	Water	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210294-04	GW0877	Water					
Trip Blank	10/30/2012	10/31/2012	1210294-05	GW8238-TB	Water					
Client Sample	11/6/2012	11/7/2012	1211062-01	GW0877R	Water					
Client Sample	11/6/2012	11/7/2012	1211062-02	GW0880R	Water					
Client Sample	11/7/2012	11/8/2012	1211075-01	GW0876R	Water					
Client Sample	11/7/2012	11/8/2012	1211075-02	GW0878	Water	X	X	X	X	X
Client Sample	11/7/2012	11/8/2012	1211075-03	GW0878	Water					

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	10/29/2012	10/30/2012	1210274-01	GW0879	Water	X	X	X	X	X	X
Client Sample	10/29/2012	10/30/2012	1210274-02	GW0879	Water	X					
Client Sample	10/29/2012	10/30/2012	1210274-03	GW0880	Water	X	X	X	X	X	X
Client Sample	10/29/2012	10/30/2012	1210274-04	GW0880	Water	X					
Trip Blank	10/29/2012	10/30/2012	1210274-05	GW8237-TB	Water					X	
Client Sample	10/30/2012	10/31/2012	1210294-01	GW0876	Water	X	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210294-02	GW0876	Water	X					
Client Sample	10/30/2012	10/31/2012	1210294-03	GW0877	Water	X	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210294-04	GW0877	Water	X					
Trip Blank	10/30/2012	10/31/2012	1210294-05	GW8238-TB	Water					X	
Client Sample	11/6/2012	11/7/2012	1211062-01	GW0877R	Water		X			X	
Client Sample	11/6/2012	11/7/2012	1211062-02	GW0880R	Water		X			X	
Client Sample	11/7/2012	11/8/2012	1211075-01	GW0876R	Water		X			X	
Client Sample	11/7/2012	11/8/2012	1211075-02	GW0878	Water	X	X	X	X	X	X
Client Sample	11/7/2012	11/8/2012	1211075-03	GW0878	Water	X					

Data for SW8260B Forms

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J30416	5.00/5.00	5.00	5.00	1.00		10/30/12
1210274-03 [GW0880]	2J30416	5.00/5.00	5.00	5.00	1.00		10/30/12
1210274-05 [GW8237-TB]	2J30416	5.00/5.00	5.00	5.00	1.00		10/30/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-01 [GW0876]	2J31022	5.00/5.00	5.00	5.00	1.00		11/01/12
1210294-03 [GW0877]	2J31022	5.00/5.00	5.00	5.00	1.00		11/01/12
1210294-05 [GW8238-TB]	2J31022	5.00/5.00	5.00	5.00	1.00		11/01/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211062-01 [GW0877R]	2K08002	5.00/5.00	5.00	5.00	1.00		11/08/12
1211062-02 [GW0880R]	2K08002	5.00/5.00	5.00	5.00	1.00		11/08/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-01 [GW0876R]	2K09002	5.00/5.00	5.00	5.00	1.00		11/09/12
1211075-02 [GW0878]	2K09002	5.00/5.00	5.00	5.00	1.00		11/09/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	1027401.D
Sampled:	10/29/12 14:32	Prepared:	10/30/12 22:22	Analyzed:	10/30/12 22:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	1027401.D
Sampled:	10/29/12 14:32	Prepared:	10/30/12 22:22	Analyzed:	10/30/12 22:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.93	103	75 - 120	
Dibromofluoromethane	30.00	30.97	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.14	97.1	70 - 120	
Toluene-d8	30.00	30.00	100	85 - 120	

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	1027403.D
Sampled:	10/29/12 11:49	Prepared:	10/30/12 22:50	Analyzed:	10/30/12 22:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	1027403.D
Sampled:	10/29/12 11:49	Prepared:	10/30/12 22:50	Analyzed:	10/30/12 22:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.50	102	75 - 120	
Dibromofluoromethane	30.00	31.02	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.42	101	70 - 120	
Toluene-d8	30.00	30.12	100	85 - 120	

ANALYSIS DATA SHEET

GW8237-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-05	File ID:	1027405.D
Sampled:	10/29/12 08:00	Prepared:	10/30/12 21:53	Analyzed:	10/30/12 21:53
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

GW8237-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-05	File ID:	1027405.D
Sampled:	10/29/12 08:00	Prepared:	10/30/12 21:53	Analyzed:	10/30/12 21:53
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.79	103	75 - 120	
Dibromofluoromethane	30.00	30.76	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.73	99.1	70 - 120	
Toluene-d8	30.00	30.55	102	85 - 120	

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	1029401.D
Sampled:	10/30/12 14:42	Prepared:	11/01/12 04:55	Analyzed:	11/01/12 04:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	1029401.D
Sampled:	10/30/12 14:42	Prepared:	11/01/12 04:55	Analyzed:	11/01/12 04:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.90	103	75 - 120	
Dibromofluoromethane	30.00	32.36	108	85 - 115	
1,2-Dichloroethane-d4	30.00	29.28	97.6	70 - 120	
Toluene-d8	30.00	30.19	101	85 - 120	

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	1029403.D
Sampled:	10/30/12 12:04	Prepared:	11/01/12 05:23	Analyzed:	11/01/12 05:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	UQ
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform	**0.320**	0.250	0.500	1.00	J
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	UY

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	1029403.D
Sampled:	10/30/12 12:04	Prepared:	11/01/12 05:23	Analyzed:	11/01/12 05:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.17	104	75 - 120	
Dibromofluoromethane	30.00	32.95	110	85 - 115	
1,2-Dichloroethane-d4	30.00	30.00	100	70 - 120	
Toluene-d8	30.00	30.89	103	85 - 120	

ANALYSIS DATA SHEET

GW8238-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-05	File ID:	1029405.D
Sampled:	10/30/12 08:00	Prepared:	11/01/12 04:26	Analyzed:	11/01/12 04:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

GW8238-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-05	File ID:	1029405.D
Sampled:	10/30/12 08:00	Prepared:	11/01/12 04:26	Analyzed:	11/01/12 04:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.50	102	75 - 120	
Dibromofluoromethane	30.00	33.01	110	85 - 115	
1,2-Dichloroethane-d4	30.00	30.52	102	70 - 120	
Toluene-d8	30.00	29.96	99.9	85 - 120	

ANALYSIS DATA SHEET

GW0877R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211062-01	File ID:	1106201.D
Sampled:	11/06/12 16:18	Prepared:	11/08/12 10:37	Analyzed:	11/08/12 10:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	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	**0.320**	0.250	0.500	1.00	J
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	UX

ANALYSIS DATA SHEET

GW0877R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211062-01	File ID:	1106201.D
Sampled:	11/06/12 16:18	Prepared:	11/08/12 10:37	Analyzed:	11/08/12 10:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.46	98.2	75 - 120	
Dibromofluoromethane	30.00	28.17	93.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.72	102	70 - 120	
Toluene-d8	30.00	30.54	102	85 - 120	

ANALYSIS DATA SHEET

GW0880R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211062-02	File ID:	1106202.D
Sampled:	11/06/12 11:51	Prepared:	11/08/12 11:09	Analyzed:	11/08/12 11:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW0880R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211062-02	File ID:	1106202.D
Sampled:	11/06/12 11:51	Prepared:	11/08/12 11:09	Analyzed:	11/08/12 11:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.08	100	75 - 120	
Dibromofluoromethane	30.00	28.19	94.0	85 - 115	
1,2-Dichloroethane-d4	30.00	29.40	98.0	70 - 120	
Toluene-d8	30.00	30.64	102	85 - 120	

ANALYSIS DATA SHEET

GW0876R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-01	File ID:	1107501.D
Sampled:	11/07/12 10:15	Prepared:	11/09/12 09:20	Analyzed:	11/09/12 09:20
Solids:		Preparation:	5030B	Dilution:	1

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

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

ANALYSIS DATA SHEET

GW0876R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-01	File ID:	1107501.D
Sampled:	11/07/12 10:15	Prepared:	11/09/12 09:20	Analyzed:	11/09/12 09:20
Solids:		Preparation:	5030B	Dilution:	1

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

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.50	98.3	75 - 120	
Dibromofluoromethane	30.00	28.63	95.4	85 - 115	
1,2-Dichloroethane-d4	30.00	31.14	104	70 - 120	
Toluene-d8	30.00	30.51	102	85 - 120	

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	1107502.D
Sampled:	11/07/12 14:33	Prepared:	11/09/12 09:48	Analyzed:	11/09/12 09:48
Solids:		Preparation:	5030B	Dilution:	1

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

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

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	1107502.D
Sampled:	11/07/12 14:33	Prepared:	11/09/12 09:48	Analyzed:	11/09/12 09:48
Solids:		Preparation:	5030B	Dilution:	1

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

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.56	98.5	75 - 120	
Dibromofluoromethane	30.00	27.88	92.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.05	100	70 - 120	
Toluene-d8	30.00	30.94	103	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30502	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J30502-CCV1) ug/L				Lab File ID: 1030CCVE.D		Analyzed: 10/30/12 19:30		
Bromofluorobenzene	30.00	105	80 - 120	12.1	12.1	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	6.77	6.77	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.8	80 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	102	80 - 120	9.48	9.48	0.0000	+/-1.000	
LCS (2J30416-BS1) ug/L				Lab File ID: 1030LCSE.D		Analyzed: 10/30/12 19:59		
Bromofluorobenzene	30.00	103	75 - 120	12.1	12.1	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.77	6.77	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.9	70 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.48	9.48	0.0000	+/-1.000	
Blank (2J30416-BLK1) ug/L				Lab File ID: 1030BLKE.D		Analyzed: 10/30/12 21:25		
Bromofluorobenzene	30.00	102	75 - 120	12.1	12.1	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.77	6.77	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.48	9.48	0.0000	+/-1.000	
GW8237-TB (1210274-05) ug/L				Lab File ID: 1027405.D		Analyzed: 10/30/12 21:53		
Bromofluorobenzene	30.00	103	75 - 120	12.09	12.1	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.77	6.77	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.48	9.48	0.0000	+/-1.000	
GW0879 (1210274-01) ug/L				Lab File ID: 1027401.D		Analyzed: 10/30/12 22:22		
Bromofluorobenzene	30.00	103	75 - 120	12.1	12.1	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.77	6.77	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.1	70 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.48	9.48	0.0000	+/-1.000	
GW0880 (1210274-03) ug/L				Lab File ID: 1027403.D		Analyzed: 10/30/12 22:50		
Bromofluorobenzene	30.00	102	75 - 120	12.09	12.1	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.77	6.77	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.27	7.26	0.0100	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.47	9.48	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30602	Instrument:	MS-VOA6
		Calibration:	2121003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K30602-CCV1) ug/L				Lab File ID: 1031CCVE.D		Analyzed: 10/31/12 20:48		
Bromofluorobenzene	30.00	103	80 - 120	12.09	12.09	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	6.76	6.76	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.2	80 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	99.7	80 - 120	9.47	9.47	0.0000	+/-1.000	
LCS (2J31022-BS1) ug/L				Lab File ID: 1031LCSE.D		Analyzed: 10/31/12 21:17		
Bromofluorobenzene	30.00	105	75 - 120	12.09	12.09	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.76	6.76	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.2	70 - 120	7.25	7.26	-0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.47	9.47	0.0000	+/-1.000	
Blank (2J31022-BLK1) ug/L				Lab File ID: 1031BLKE.D		Analyzed: 10/31/12 22:42		
Bromofluorobenzene	30.00	101	75 - 120	12.09	12.09	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.76	6.76	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	7.25	7.26	-0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.47	9.47	0.0000	+/-1.000	
GW8238-TB (1210294-05) ug/L				Lab File ID: 1029405.D		Analyzed: 11/01/12 04:26		
Bromofluorobenzene	30.00	102	75 - 120	12.08	12.09	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.76	6.76	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	9.47	9.47	0.0000	+/-1.000	
GW0876 (1210294-01) ug/L				Lab File ID: 1029401.D		Analyzed: 11/01/12 04:55		
Bromofluorobenzene	30.00	103	75 - 120	12.09	12.09	0.0000	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	6.76	6.76	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.6	70 - 120	7.25	7.26	-0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.47	9.47	0.0000	+/-1.000	
GW0877 (1210294-03) ug/L				Lab File ID: 1029403.D		Analyzed: 11/01/12 05:23		
Bromofluorobenzene	30.00	104	75 - 120	12.08	12.09	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.75	6.76	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.26	7.26	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.47	9.47	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31306	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31306-CCV1) ug/L				Lab File ID: 1108CCV1.D		Analyzed: 11/08/12 08:18		
Bromofluorobenzene	30.00	118	80 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.9	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	108	80 - 120	9.3	9.3	0.0000	+/-1.000	
LCS (2K08002-BS1) ug/L				Lab File ID: 1108LCS1.D		Analyzed: 11/08/12 08:46		
Bromofluorobenzene	30.00	103	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.6	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.31	9.3	0.0100	+/-1.000	
Blank (2K08002-BLK1) ug/L				Lab File ID: 1108BLK1.D		Analyzed: 11/08/12 10:10		
Bromofluorobenzene	30.00	93.5	75 - 120	11.93	11.94	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.9	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW0877R (1211062-01) ug/L				Lab File ID: 1106201.D		Analyzed: 11/08/12 10:37		
Bromofluorobenzene	30.00	98.2	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW0880R (1211062-02) ug/L				Lab File ID: 1106202.D		Analyzed: 11/08/12 11:09		
Bromofluorobenzene	30.00	100	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	94.0	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.0	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.3	9.3	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31408-CCV1) ug/L				Lab File ID: 1109CCV1.D		Analyzed: 11/09/12 07:01		
Bromofluorobenzene	30.00	104	80 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.4	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	80 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	107	80 - 120	9.31	9.31	0.0000	+/-1.000	
LCS (2K09002-BS1) ug/L				Lab File ID: 1109LCS1.D		Analyzed: 11/09/12 07:29		
Bromofluorobenzene	30.00	107	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.3	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.31	9.31	0.0000	+/-1.000	
Blank (2K09002-BLK1) ug/L				Lab File ID: 1109BLK1.D		Analyzed: 11/09/12 08:52		
Bromofluorobenzene	30.00	98.2	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.4	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW0876R (1211075-01) ug/L				Lab File ID: 1107501.D		Analyzed: 11/09/12 09:20		
Bromofluorobenzene	30.00	98.3	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.4	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW0878 (1211075-02) ug/L				Lab File ID: 1107502.D		Analyzed: 11/09/12 09:48		
Bromofluorobenzene	30.00	98.5	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	92.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.31	9.31	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30416	Laboratory ID:	2J30416-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	74.0	74.0	40 - 140
Benzene	50.00	43.0	86.1	80 - 120
Bromobenzene	50.00	45.6	91.2	75 - 125
Bromochloromethane	50.00	43.9	87.7	65 - 130
Bromodichloromethane	50.00	48.6	97.1	75 - 120
Bromoform	50.00	42.7	85.4	70 - 130
Bromomethane	50.00	43.9	87.7	30 - 145
n-Butylbenzene	50.00	44.9	89.8	70 - 135
2-Butanone	100.0	75.5	75.5	30 - 150
sec-Butylbenzene	50.00	43.3	86.7	70 - 125
tert-Butylbenzene	50.00	45.8	91.5	70 - 130
Carbon disulfide	50.00	45.0	90.0	35 - 160
Carbon tetrachloride	50.00	46.1	92.2	65 - 140
Chlorobenzene	50.00	41.5	83.0	80 - 120
Chloroethane	50.00	44.8	89.7	60 - 135
Chloroform	50.00	45.2	90.5	65 - 135
Chloromethane	50.00	38.3	76.6	40 - 125
2-Chlorotoluene	50.00	45.6	91.2	75 - 125
4-Chlorotoluene	50.00	45.7	91.5	75 - 130
Dibromochloromethane	50.00	43.3	86.6	60 - 135
1,2-Dibromo-3-chloropropane	50.00	39.0	77.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	43.5	87.0	80 - 120
Dibromomethane	50.00	43.4	86.8	75 - 125
1,2-Dichlorobenzene	50.00	42.9	85.8	70 - 120
1,3-Dichlorobenzene	50.00	42.9	85.8	75 - 125
1,4-Dichlorobenzene	50.00	46.2	92.4	75 - 125
Dichlorodifluoromethane	50.00	37.9	75.8	30 - 155
1,1-Dichloroethane	50.00	44.0	88.0	70 - 135
1,2-Dichloroethane	50.00	49.0	98.0	70 - 130
1,1-Dichloroethene	50.00	38.7	77.4	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30416	Laboratory ID:	2J30416-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	45.6	91.1	70 - 125
trans-1,2-Dichloroethene	50.00	41.6	83.3	60 - 140
1,2-Dichloropropane	50.00	45.5	91.0	75 - 125
1,3-Dichloropropane	50.00	45.6	91.2	75 - 125
2,2-Dichloropropane	50.00	45.8	91.6	70 - 135
1,1-Dichloropropene	50.00	41.4	82.9	75 - 130
cis-1,3-Dichloropropene	50.00	51.3	103	70 - 130
trans-1,3-Dichloropropene	50.00	46.6	93.2	55 - 140
Ethylbenzene	50.00	44.1	88.2	75 - 125
Hexachlorobutadiene	50.00	34.3	68.6	50 - 140
2-Hexanone	100.0	87.1	87.1	55 - 130
Isopropylbenzene	50.00	44.2	88.3	75 - 125
p-Isopropyltoluene	50.00	44.8	89.7	75 - 130
Methylene chloride	50.00	42.6	85.2	55 - 140
Naphthalene	50.00	40.5	81.0	55 - 140
4-Methyl-2-pentanone	100.0	90.8	90.8	60 - 135
Methyl t-Butyl Ether	50.00	44.2	88.4	65 - 125
n-Propylbenzene	50.00	43.6	87.3	70 - 130
Styrene	50.00	46.0	92.1	65 - 135
1,1,2,2-Tetrachloroethane	50.00	39.1	78.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.2	96.4	80 - 130
Tetrachloroethene	50.00	37.9	75.8	45 - 150
Toluene	50.00	45.0	90.1	75 - 120
1,2,3-Trichlorobenzene	50.00	40.0	80.0	55 - 140
1,2,4-Trichlorobenzene	50.00	40.6	81.1	65 - 135
1,1,2-Trichloroethane	50.00	43.5	86.9	75 - 125
1,1,1-Trichloroethane	50.00	47.2	94.5	65 - 130
Trichloroethene	50.00	46.6	93.2	70 - 125
Trichlorofluoromethane	50.00	39.6	79.1	60 - 145
1,2,3-Trichloropropane	50.00	42.7	85.4	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30416	Laboratory ID:	2J30416-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.9	102	75 - 130
1,2,4-Trimethylbenzene	50.00	50.8	102	75 - 130
Vinyl chloride	50.00	54.2	108	50 - 145
Xylenes (total)	150.0	130	86.6	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31022	Laboratory ID:	2J31022-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	95.5	95.5	40 - 140
Benzene	50.00	41.7	83.3	80 - 120
Bromobenzene	50.00	43.2	86.4	75 - 125
Bromochloromethane	50.00	41.5	83.0	65 - 130
Bromodichloromethane	50.00	46.5	92.9	75 - 120
Bromoform	50.00	42.7	85.4	70 - 130
Bromomethane	50.00	51.6	103	30 - 145
n-Butylbenzene	50.00	42.9	85.8	70 - 135
2-Butanone	100.0	81.2	81.2	30 - 150
sec-Butylbenzene	50.00	42.4	84.8	70 - 125
tert-Butylbenzene	50.00	43.8	87.7	70 - 130
Carbon disulfide	50.00	47.6	95.1	35 - 160
Carbon tetrachloride	50.00	48.5	97.0	65 - 140
Chlorobenzene	**50.00**	**40.0**	**79.9**	**80 - 120**
Chloroethane	50.00	52.6	105	60 - 135
Chloroform	50.00	43.6	87.2	65 - 135
Chloromethane	50.00	43.9	87.8	40 - 125
2-Chlorotoluene	50.00	43.2	86.3	75 - 125
4-Chlorotoluene	50.00	43.5	87.1	75 - 130
Dibromochloromethane	50.00	41.8	83.6	60 - 135
1,2-Dibromo-3-chloropropane	50.00	42.2	84.4	50 - 130
1,2-Dibromoethane (EDB)	50.00	42.6	85.2	80 - 120
Dibromomethane	50.00	42.3	84.7	75 - 125
1,2-Dichlorobenzene	50.00	39.4	78.8	70 - 120
1,3-Dichlorobenzene	50.00	39.6	79.2	75 - 125
1,4-Dichlorobenzene	50.00	43.2	86.4	75 - 125
Dichlorodifluoromethane	50.00	50.3	101	30 - 155
1,1-Dichloroethane	50.00	42.4	84.8	70 - 135
1,2-Dichloroethane	50.00	47.9	95.8	70 - 130
1,1-Dichloroethene	50.00	43.3	86.6	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31022	Laboratory ID:	2J31022-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	43.1	86.2	70 - 125
trans-1,2-Dichloroethene	50.00	40.5	81.0	60 - 140
1,2-Dichloropropane	50.00	43.3	86.6	75 - 125
1,3-Dichloropropane	50.00	43.7	87.3	75 - 125
2,2-Dichloropropane	50.00	45.1	90.3	70 - 135
1,1-Dichloropropene	50.00	42.6	85.3	75 - 130
cis-1,3-Dichloropropene	50.00	48.4	96.9	70 - 130
trans-1,3-Dichloropropene	50.00	45.0	89.9	55 - 140
Ethylbenzene	50.00	43.4	86.8	75 - 125
Hexachlorobutadiene	50.00	35.3	70.7	50 - 140
2-Hexanone	100.0	90.8	90.8	55 - 130
Isopropylbenzene	50.00	44.4	88.8	75 - 125
p-Isopropyltoluene	50.00	43.8	87.5	75 - 130
Methylene chloride	50.00	43.1	86.2	55 - 140
Naphthalene	50.00	41.9	83.8	55 - 140
4-Methyl-2-pentanone	100.0	94.8	94.8	60 - 135
Methyl t-Butyl Ether	50.00	43.7	87.5	65 - 125
n-Propylbenzene	50.00	42.8	85.5	70 - 130
Styrene	50.00	44.1	88.3	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.8	81.5	65 - 130
1,1,1,2-Tetrachloroethane	50.00	44.8	89.6	80 - 130
Tetrachloroethene	50.00	37.8	75.5	45 - 150
Toluene	50.00	44.2	88.4	75 - 120
1,2,3-Trichlorobenzene	50.00	38.7	77.5	55 - 140
1,2,4-Trichlorobenzene	50.00	38.8	77.7	65 - 135
1,1,2-Trichloroethane	50.00	42.6	85.2	75 - 125
1,1,1-Trichloroethane	50.00	48.2	96.4	65 - 130
Trichloroethene	50.00	45.2	90.5	70 - 125
Trichlorofluoromethane	50.00	52.7	105	60 - 145
1,2,3-Trichloropropane	50.00	44.9	89.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31022	Laboratory ID:	2J31022-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	48.6	97.2	75 - 130
1,2,4-Trimethylbenzene	50.00	47.2	94.4	75 - 130
Vinyl chloride	50.00	68.5	137	50 - 145
Xylenes (total)	150.0	126	83.7	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08002	Laboratory ID:	2K08002-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	92.0	92.0	40 - 140
Benzene	50.00	46.1	92.2	80 - 120
Bromobenzene	50.00	43.8	87.6	75 - 125
Bromochloromethane	50.00	53.4	107	65 - 130
Bromodichloromethane	50.00	46.2	92.5	75 - 120
Bromoform	50.00	53.8	108	70 - 130
Bromomethane	50.00	40.0	79.9	30 - 145
n-Butylbenzene	50.00	50.4	101	70 - 135
2-Butanone	100.0	87.8	87.8	30 - 150
sec-Butylbenzene	50.00	49.9	99.8	70 - 125
tert-Butylbenzene	50.00	51.5	103	70 - 130
Carbon disulfide	50.00	56.0	112	35 - 160
Carbon tetrachloride	50.00	46.4	92.8	65 - 140
Chlorobenzene	50.00	57.4	115	80 - 120
Chloroethane	50.00	45.6	91.2	60 - 135
Chloroform	50.00	40.9	81.9	65 - 135
Chloromethane	50.00	42.4	84.9	40 - 125
2-Chlorotoluene	50.00	39.0	78.0	75 - 125
4-Chlorotoluene	50.00	41.8	83.7	75 - 130
Dibromochloromethane	50.00	60.1	120	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.5	99.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.6	107	80 - 120
Dibromomethane	50.00	44.8	89.5	75 - 125
1,2-Dichlorobenzene	50.00	48.3	96.7	70 - 120
1,3-Dichlorobenzene	50.00	47.7	95.5	75 - 125
1,4-Dichlorobenzene	50.00	44.7	89.4	75 - 125
Dichlorodifluoromethane	50.00	46.7	93.3	30 - 155
1,1-Dichloroethane	50.00	42.5	85.1	70 - 135
1,2-Dichloroethane	50.00	38.7	77.3	70 - 130
1,1-Dichloroethene	50.00	55.3	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08002	Laboratory ID:	2K08002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	45.6	91.1	70 - 125
trans-1,2-Dichloroethene	50.00	48.1	96.2	60 - 140
1,2-Dichloropropane	50.00	43.1	86.2	75 - 125
1,3-Dichloropropane	50.00	47.0	94.0	75 - 125
2,2-Dichloropropane	50.00	38.0	76.0	70 - 135
1,1-Dichloropropene	50.00	42.3	84.6	75 - 130
cis-1,3-Dichloropropene	50.00	40.8	81.6	70 - 130
trans-1,3-Dichloropropene	50.00	48.0	95.9	55 - 140
Ethylbenzene	50.00	51.0	102	75 - 125
Hexachlorobutadiene	50.00	62.1	124	50 - 140
2-Hexanone	100.0	95.2	95.2	55 - 130
Isopropylbenzene	50.00	56.3	113	75 - 125
p-Isopropyltoluene	50.00	54.9	110	75 - 130
Methylene chloride	50.00	49.5	98.9	55 - 140
Naphthalene	50.00	53.1	106	55 - 140
4-Methyl-2-pentanone	100.0	91.5	91.5	60 - 135
Methyl t-Butyl Ether	50.00	44.7	89.5	65 - 125
n-Propylbenzene	50.00	43.7	87.4	70 - 130
Styrene	50.00	56.7	113	65 - 135
1,1,2,2-Tetrachloroethane	50.00	34.8	69.6	65 - 130
1,1,1,2-Tetrachloroethane	50.00	60.4	121	80 - 130
Tetrachloroethene	50.00	60.5	121	45 - 150
Toluene	50.00	49.8	99.6	75 - 120
1,2,3-Trichlorobenzene	50.00	61.8	124	55 - 140
1,2,4-Trichlorobenzene	50.00	62.7	125	65 - 135
1,1,2-Trichloroethane	50.00	48.9	97.9	75 - 125
1,1,1-Trichloroethane	50.00	42.6	85.1	65 - 130
Trichloroethene	50.00	45.2	90.4	70 - 125
Trichlorofluoromethane	50.00	45.8	91.5	60 - 145
1,2,3-Trichloropropane	50.00	54.3	109	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08002	Laboratory ID:	2K08002-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	43.1	86.3	75 - 130
1,2,4-Trimethylbenzene	50.00	48.4	96.8	75 - 130
Vinyl chloride	50.00	35.3	70.6	50 - 145
Xylenes (total)	150.0	160	107	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	88.0	88.0	40 - 140
Benzene	50.00	47.1	94.1	80 - 120
Bromobenzene	50.00	43.7	87.5	75 - 125
Bromochloromethane	50.00	52.4	105	65 - 130
Bromodichloromethane	50.00	46.5	93.1	75 - 120
Bromoform	50.00	53.1	106	70 - 130
Bromomethane	50.00	39.7	79.4	30 - 145
n-Butylbenzene	50.00	53.3	107	70 - 135
2-Butanone	100.0	90.8	90.8	30 - 150
sec-Butylbenzene	50.00	50.8	102	70 - 125
tert-Butylbenzene	50.00	52.5	105	70 - 130
Carbon disulfide	50.00	51.0	102	35 - 160
Carbon tetrachloride	50.00	48.0	96.0	65 - 140
Chlorobenzene	50.00	58.2	116	80 - 120
Chloroethane	50.00	47.6	95.3	60 - 135
Chloroform	50.00	41.8	83.6	65 - 135
Chloromethane	50.00	44.5	89.1	40 - 125
2-Chlorotoluene	50.00	39.5	79.0	75 - 125
4-Chlorotoluene	50.00	42.6	85.2	75 - 130
Dibromochloromethane	50.00	60.8	122	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.4	98.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.7	107	80 - 120
Dibromomethane	50.00	43.9	87.8	75 - 125
1,2-Dichlorobenzene	50.00	48.6	97.2	70 - 120
1,3-Dichlorobenzene	50.00	46.9	93.8	75 - 125
1,4-Dichlorobenzene	50.00	45.1	90.1	75 - 125
Dichlorodifluoromethane	50.00	46.2	92.5	30 - 155
1,1-Dichloroethane	50.00	44.2	88.4	70 - 135
1,2-Dichloroethane	50.00	37.9	75.8	70 - 130
1,1-Dichloroethene	50.00	57.1	114	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	45.6	91.1	70 - 125
trans-1,2-Dichloroethene	50.00	49.0	97.9	60 - 140
1,2-Dichloropropane	50.00	43.3	86.7	75 - 125
1,3-Dichloropropane	50.00	46.4	92.9	75 - 125
2,2-Dichloropropane	50.00	40.7	81.4	70 - 135
1,1-Dichloropropene	50.00	43.0	86.1	75 - 130
cis-1,3-Dichloropropene	50.00	40.5	81.0	70 - 130
trans-1,3-Dichloropropene	50.00	47.8	95.5	55 - 140
Ethylbenzene	50.00	51.9	104	75 - 125
Hexachlorobutadiene	50.00	65.0	130	50 - 140
2-Hexanone	100.0	96.5	96.5	55 - 130
Isopropylbenzene	50.00	57.0	114	75 - 125
p-Isopropyltoluene	50.00	57.4	115	75 - 130
Methylene chloride	50.00	44.5	88.9	55 - 140
Naphthalene	50.00	57.5	115	55 - 140
4-Methyl-2-pentanone	100.0	94.3	94.3	60 - 135
Methyl t-Butyl Ether	50.00	43.9	87.8	65 - 125
n-Propylbenzene	50.00	44.5	89.0	70 - 130
Styrene	50.00	58.0	116	65 - 135
1,1,2,2-Tetrachloroethane	50.00	34.1	68.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	60.7	121	80 - 130
Tetrachloroethene	50.00	61.1	122	45 - 150
Toluene	50.00	50.8	102	75 - 120
1,2,3-Trichlorobenzene	50.00	66.9	134	55 - 140
1,2,4-Trichlorobenzene	50.00	65.8	132	65 - 135
1,1,2-Trichloroethane	50.00	49.4	98.9	75 - 125
1,1,1-Trichloroethane	50.00	43.8	87.7	65 - 130
Trichloroethene	50.00	45.7	91.3	70 - 125
Trichlorofluoromethane	50.00	47.1	94.2	60 - 145
1,2,3-Trichloropropane	50.00	54.7	109	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	44.5	89.0	75 - 130
1,2,4-Trimethylbenzene	50.00	50.2	100	75 - 130
Vinyl chloride	50.00	36.0	72.0	50 - 145
Xylenes (total)	150.0	163	109	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J30416 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/30/12 22:22	5.00	5.00
GW0880	1210274-03	10/30/12 22:50	5.00	5.00
GW8237-TB	1210274-05	10/30/12 21:53	5.00	5.00
Blank	2J30416-BLK1	10/30/12 21:25	5.00	5.00
LCS	2J30416-BS1	10/30/12 19:59	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31022 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-01	11/01/12 04:55	5.00	5.00
GW0877	1210294-03	11/01/12 05:23	5.00	5.00
GW8238-TB	1210294-05	11/01/12 04:26	5.00	5.00
Blank	2J31022-BLK1	10/31/12 22:42	5.00	5.00
LCS	2J31022-BS1	10/31/12 21:17	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K08002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0877R	1211062-01	11/08/12 10:37	5.00	5.00
GW0880R	1211062-02	11/08/12 11:09	5.00	5.00
Blank	2K08002-BLK1	11/08/12 10:10	5.00	5.00
LCS	2K08002-BS1	11/08/12 08:46	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

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

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876R	1211075-01	11/09/12 09:20	5.00	5.00
GW0878	1211075-02	11/09/12 09:48	5.00	5.00
Blank	2K09002-BLK1	11/09/12 08:52	5.00	5.00
LCS	2K09002-BS1	11/09/12 07:29	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J30416-BLK1 File ID: 1030BLKE.D

Sampled: Prepared: Analyzed: 10/30/12 21:25

Solids: Preparation: 5030B Dilution:

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J30416-BLK1 File ID: 1030BLKE.D

Sampled: Prepared: Analyzed: 10/30/12 21:25

Solids: Preparation: 5030B Dilution:

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.74	102	75 - 120	
Dibromofluoromethane	30.00	30.92	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.32	101	70 - 120	
Toluene-d8	30.00	30.24	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J30416-BS1 File ID: 1030LCSE.D

Sampled: Prepared: Analyzed: 10/30/12 19:59

Solids: Preparation: 5030B Dilution:

Batch: 2J30416 Sequence: 2J30502 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**74.0**	2.50	5.00	10.0	Y
71-43-2	Benzene	**43.0**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**45.6**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**43.9**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**48.6**	0.250	0.500	1.00	
75-25-2	Bromoform	**42.7**	0.250	0.500	1.00	
74-83-9	Bromomethane	**43.9**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**44.9**	0.250	0.500	1.00	
78-93-3	2-Butanone	**75.5**	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	**43.3**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**45.8**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**45.0**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**46.1**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**41.5**	0.250	0.500	1.00	
75-00-3	Chloroethane	**44.8**	0.500	1.00	2.00	
67-66-3	Chloroform	**45.2**	0.250	0.500	1.00	
74-87-3	Chloromethane	**38.3**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**45.6**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**45.7**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**43.3**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**39.0**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**43.5**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**43.4**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**42.9**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**42.9**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.2**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**37.9**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**44.0**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**49.0**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**38.7**	0.250	0.500	1.00	Y
156-59-2	cis-1,2-Dichloroethene	**45.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**41.6**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**45.5**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**45.6**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**45.8**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**41.4**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**51.3**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**46.6**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**44.1**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**34.3**	0.250	0.500	2.00	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J30416-BS1 | File ID: 1030LCSE.D

Sampled: | Prepared: | Analyzed: 10/30/12 19:59

Solids: | Preparation: 5030B | Dilution:

Batch: 2J30416 | Sequence: 2J30502 | Calibration: 2121003 | Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**87.1**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**44.2**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**44.8**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**42.6**	0.500	1.00	2.00	
91-20-3	Naphthalene	**40.5**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**90.8**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**44.2**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**43.6**	0.250	0.500	1.00	
100-42-5	Styrene	**46.0**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**39.1**	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	**37.9**	0.250	0.500	1.00	Y
108-88-3	Toluene	**45.0**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**40.0**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**40.6**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**43.5**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**47.2**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**46.6**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**39.6**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**42.7**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**50.9**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**50.8**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**54.2**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**130**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.96	103	75 - 120	
Dibromofluoromethane	30.00	30.75	102	85 - 115	
1,2-Dichloroethane-d4	30.00	29.07	96.9	70 - 120	
Toluene-d8	30.00	30.28	101	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J31022-BLK1 File ID: 1031BLKE.D

Sampled: Prepared: Analyzed: 10/31/12 22:42

Solids: Preparation: 5030B Dilution:

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J31022-BLK1 File ID: 1031BLKE.D

Sampled: Prepared: Analyzed: 10/31/12 22:42

Solids: Preparation: 5030B Dilution:

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.26	101	75 - 120	
Dibromofluoromethane	30.00	31.76	106	85 - 115	
1,2-Dichloroethane-d4	30.00	29.82	99.4	70 - 120	
Toluene-d8	30.00	30.27	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J31022-BS1 File ID: 1031LCSE.D

Sampled: Prepared: Analyzed: 10/31/12 21:17

Solids: Preparation: 5030B Dilution:

Batch: 2J31022 Sequence: 2K30602 Calibration: 2121003 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**95.5**	2.50	5.00	10.0	
71-43-2	Benzene	**41.7**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**43.2**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**41.5**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.5**	0.250	0.500	1.00	
75-25-2	Bromoform	**42.7**	0.250	0.500	1.00	
74-83-9	Bromomethane	**51.6**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**42.9**	0.250	0.500	1.00	
78-93-3	2-Butanone	**81.2**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**42.4**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**43.8**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**47.6**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**48.5**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**40.0**	0.250	0.500	1.00	
75-00-3	Chloroethane	**52.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**43.6**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.9**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**43.2**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**43.5**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**41.8**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**42.2**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**42.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**42.3**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**39.4**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**39.6**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**43.2**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**50.3**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**42.4**	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	**43.3**	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	
78-87-5	1,2-Dichloropropane	**43.3**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**43.7**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**45.1**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**42.6**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**48.4**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**45.0**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**43.4**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**35.3**	0.250	0.500	2.00	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J31022-BS1 | File ID: 1031LCSE.D

Sampled: | Prepared: | Analyzed: 10/31/12 21:17

Solids: | Preparation: 5030B | Dilution:

Batch: 2J31022 | Sequence: 2K30602 | Calibration: 2121003 | Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**90.8**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**44.4**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**43.8**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**43.1**	0.500	1.00	2.00	
91-20-3	Naphthalene	**41.9**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**94.8**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**43.7**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**42.8**	0.250	0.500	1.00	
100-42-5	Styrene	**44.1**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**40.8**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**44.8**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**37.8**	0.250	0.500	1.00	
108-88-3	Toluene	**44.2**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**38.7**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**38.8**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**42.6**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**48.2**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.2**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**52.7**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**44.9**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**48.6**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**47.2**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**68.5**	0.250	0.500	1.00	X
1330-20-7	Xylenes (total)	**126**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.50	105	75 - 120	
Dibromofluoromethane	30.00	30.91	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.16	97.2	70 - 120	
Toluene-d8	30.00	30.46	102	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2K08002-BLK1 File ID: 1108BLK1.D

Sampled: Prepared: Analyzed: 11/08/12 10:10

Solids: Preparation: 5030B Dilution:

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2K08002-BLK1 File ID: 1108BLK1.D

Sampled: Prepared: Analyzed: 11/08/12 10:10

Solids: Preparation: 5030B Dilution:

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.04	93.5	75 - 120	
Dibromofluoromethane	30.00	28.16	93.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.55	102	70 - 120	
Toluene-d8	30.00	31.28	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2K08002-BS1 | File ID: 1108LCS1.D

Sampled: | Prepared: | Analyzed: 11/08/12 08:46

Solids: | Preparation: 5030B | Dilution:

Batch: 2K08002 | Sequence: 2K31306 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**92.0**	2.50	5.00	10.0	
71-43-2	Benzene	**46.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**43.8**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**53.4**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.2**	0.250	0.500	1.00	
75-25-2	Bromoform	**53.8**	0.250	0.500	1.00	
74-83-9	Bromomethane	**40.0**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**50.4**	0.250	0.500	1.00	
78-93-3	2-Butanone	**87.8**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**49.9**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**51.5**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**56.0**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**46.4**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**57.4**	0.250	0.500	1.00	
75-00-3	Chloroethane	**45.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**40.9**	0.250	0.500	1.00	
74-87-3	Chloromethane	**42.4**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.0**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**41.8**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**60.1**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**49.5**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**53.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**44.8**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**48.3**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**47.7**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**44.7**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.7**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**42.5**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**38.7**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**55.3**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**45.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**48.1**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**43.1**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**47.0**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**38.0**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**42.3**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**40.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**48.0**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.0**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**62.1**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2K08002-BS1 | File ID: 1108LCS1.D

Sampled: | Prepared: | Analyzed: 11/08/12 08:46

Solids: | Preparation: 5030B | Dilution:

Batch: 2K08002 | Sequence: 2K31306 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**95.2**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**56.3**	0.250	0.500	1.00	X
99-87-6	p-Isopropyltoluene	**54.9**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**49.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**53.1**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**91.5**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**44.7**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**43.7**	0.250	0.500	1.00	
100-42-5	Styrene	**56.7**	0.250	0.500	1.00	X
79-34-5	1,1,2,2-Tetrachloroethane	**34.8**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**60.4**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**60.5**	0.250	0.500	1.00	
108-88-3	Toluene	**49.8**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**61.8**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**62.7**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**48.9**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**42.6**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.2**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**45.8**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**54.3**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**43.1**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**48.4**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**35.3**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**160**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.76	103	75 - 120	
Dibromofluoromethane	30.00	28.67	95.6	85 - 115	
1,2-Dichloroethane-d4	30.00	31.85	106	70 - 120	
Toluene-d8	30.00	32.53	108	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

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

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

Solids: Preparation: 5030B Dilution:

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

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

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

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

Solids: Preparation: 5030B Dilution:

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

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.45	98.2	75 - 120	
Dibromofluoromethane	30.00	28.01	93.4	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.74	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

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

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

Solids: Preparation: 5030B Dilution:

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

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

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

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

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

Solids: | Preparation: 5030B | Dilution:

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

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

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0427TUN1.D	Injection Date:	04/27/12
Instrument ID:	MS-VOA6	Injection Time:	08:36
Sequence:	2D12109	Lab Sample ID:	2D12109-TUN1

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN2.D	Injection Date:	10/12/12
Instrument ID:	MS-VOA5	Injection Time:	14:29
Sequence:	2J29101	Lab Sample ID:	2J29101-TUN1

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN3.D	Injection Date:	10/16/12
Instrument ID:	MS-VOA5	Injection Time:	13:45
Sequence:	2J29101	Lab Sample ID:	2J29101-TUN2

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1030TUNE.D	Injection Date:	10/30/12
Instrument ID:	MS-VOA6	Injection Time:	19:01
Sequence:	2J30502	Lab Sample ID:	2J30502-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.9	PASS
75	30 - 60% of 95	49	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.62	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	72	PASS
175	5 - 9% of 174	7.13	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.53	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1031TUNE.D	Injection Date:	10/31/12
Instrument ID:	MS-VOA6	Injection Time:	20:19
Sequence:	2K30602	Lab Sample ID:	2K30602-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.9	PASS
75	30 - 60% of 95	50.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.56	PASS
173	Less than 2% of 174	0.187	PASS
174	50 - 200% of 95	70.7	PASS
175	5 - 9% of 174	7.35	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.75	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1108TUN1.D	Injection Date:	11/08/12
Instrument ID:	MS-VOA5	Injection Time:	07:49
Sequence:	2K31306	Lab Sample ID:	2K31306-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.1	PASS
75	30 - 60% of 95	43.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.94	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	99.3	PASS
175	5 - 9% of 174	5.92	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	6.35	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1109TUN1.D	Injection Date:	11/09/12
Instrument ID:	MS-VOA5	Injection Time:	06:32
Sequence:	2K31408	Lab Sample ID:	2K31408-TUN1

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

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2D12109	Instrument:	MS-VOA6
Calibration:	2121003		

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

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29101	Instrument:	MS-VOA5
Calibration:	2291001		

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

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30502	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J30502-TUN1	1030TUNE.D	10/30/12 19:01
Calibration Check	2J30502-CCV1	1030CCVE.D	10/30/12 19:30
LCS	2J30416-BS1	1030LCSE.D	10/30/12 19:59
Blank	2J30416-BLK1	1030BLKE.D	10/30/12 21:25
GW8237-TB	1210274-05	1027405.D	10/30/12 21:53
GW0879	1210274-01	1027401.D	10/30/12 22:22
GW0880	1210274-03	1027403.D	10/30/12 22:50

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30602	Instrument:	MS-VOA6
Calibration:	2121003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K30602-TUN1	1031TUNE.D	10/31/12 20:19
Calibration Check	2K30602-CCV1	1031CCVE.D	10/31/12 20:48
LCS	2J31022-BS1	1031LCSE.D	10/31/12 21:17
Blank	2J31022-BLK1	1031BLKE.D	10/31/12 22:42
GW8238-TB	1210294-05	1029405.D	11/01/12 04:26
GW0876	1210294-01	1029401.D	11/01/12 04:55
GW0877	1210294-03	1029403.D	11/01/12 05:23

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31306	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31306-TUN1	1108TUN1.D	11/08/12 07:49
Calibration Check	2K31306-CCV1	1108CCV1.D	11/08/12 08:18
LCS	2K08002-BS1	1108LCS1.D	11/08/12 08:46
Blank	2K08002-BLK1	1108BLK1.D	11/08/12 10:10
GW0877R	1211062-01	1106201.D	11/08/12 10:37
GW0880R	1211062-02	1106202.D	11/08/12 11:09

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31408-TUN1	1109TUN1.D	11/09/12 06:32
Calibration Check	2K31408-CCV1	1109CCV1.D	11/09/12 07:01
LCS	2K09002-BS1	1109LCS1.D	11/09/12 07:29
Blank	2K09002-BLK1	1109BLK1.D	11/09/12 08:52
GW0876R	1211075-01	1107501.D	11/09/12 09:20
GW0878	1211075-02	1107502.D	11/09/12 09:48

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30502	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J30502-CCV1)			Lab File ID: 1030CCVE.D			Analyzed: 10/30/12 19:30			
Fluorobenzene	1258440	7.79	1322112	7.95	95	50 - 200	-0.1600	+/-0.50	
Chlorobenzene-d5	524223	10.91	523124	11.06	100	50 - 200	-0.1500	+/-0.50	
1,4-Dichlorobenzene-d4	394992	13.3	431103	13.45	92	50 - 200	-0.1500	+/-0.50	
LCS (2J30416-BS1)			Lab File ID: 1030LCSE.D			Analyzed: 10/30/12 19:59			
Fluorobenzene	1291212	7.79	1258440	7.79	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	526235	10.91	524223	10.91	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	389804	13.3	394992	13.3	99	50 - 200	0.0000	+/-0.50	
Blank (2J30416-BLK1)			Lab File ID: 1030BLKE.D			Analyzed: 10/30/12 21:25			
Fluorobenzene	1173805	7.79	1258440	7.79	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	490975	10.91	524223	10.91	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	350792	13.3	394992	13.3	89	50 - 200	0.0000	+/-0.50	
GW8237-TB (1210274-05)			Lab File ID: 1027405.D			Analyzed: 10/30/12 21:53			
Fluorobenzene	1169205	7.78	1258440	7.79	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	479875	10.9	524223	10.91	92	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	348658	13.3	394992	13.3	88	50 - 200	0.0000	+/-0.50	
GW0879 (1210274-01)			Lab File ID: 1027401.D			Analyzed: 10/30/12 22:22			
Fluorobenzene	1154970	7.79	1258440	7.79	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	476856	10.91	524223	10.91	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	336778	13.3	394992	13.3	85	50 - 200	0.0000	+/-0.50	
GW0880 (1210274-03)			Lab File ID: 1027403.D			Analyzed: 10/30/12 22:50			
Fluorobenzene	1132500	7.79	1258440	7.79	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	470095	10.9	524223	10.91	90	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	331687	13.3	394992	13.3	84	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30602	Instrument:	MS-VOA6
		Calibration:	2121003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K30602-CCV1)			Lab File ID: 1031CCVE.D			Analyzed: 10/31/12 20:48			
Fluorobenzene	1141079	7.79	1322112	7.95	86	50 - 200	-0.1600	+/-0.50	
Chlorobenzene-d5	481933	10.9	523124	11.06	92	50 - 200	-0.1600	+/-0.50	
1,4-Dichlorobenzene-d4	354903	13.29	431103	13.45	82	50 - 200	-0.1600	+/-0.50	
LCS (2J31022-BS1)			Lab File ID: 1031LCSE.D			Analyzed: 10/31/12 21:17			
Fluorobenzene	1164140	7.78	1141079	7.79	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	477780	10.9	481933	10.9	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	364389	13.29	354903	13.29	103	50 - 200	0.0000	+/-0.50	
Blank (2J31022-BLK1)			Lab File ID: 1031BLKE.D			Analyzed: 10/31/12 22:42			
Fluorobenzene	1086741	7.78	1141079	7.79	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	447191	10.9	481933	10.9	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	313609	13.29	354903	13.29	88	50 - 200	0.0000	+/-0.50	
GW8238-TB (1210294-05)			Lab File ID: 1029405.D			Analyzed: 11/01/12 04:26			
Fluorobenzene	1017135	7.78	1141079	7.79	89	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	420192	10.89	481933	10.9	87	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	297939	13.29	354903	13.29	84	50 - 200	0.0000	+/-0.50	
GW0876 (1210294-01)			Lab File ID: 1029401.D			Analyzed: 11/01/12 04:55			
Fluorobenzene	996031	7.78	1141079	7.79	87	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	415432	10.9	481933	10.9	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	295898	13.29	354903	13.29	83	50 - 200	0.0000	+/-0.50	
GW0877 (1210294-03)			Lab File ID: 1029403.D			Analyzed: 11/01/12 05:23			
Fluorobenzene	981444	7.78	1141079	7.79	86	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	408270	10.89	481933	10.9	85	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	293003	13.28	354903	13.29	83	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31306	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31306-CCV1)			Lab File ID: 1108CCV1.D			Analyzed: 11/08/12 08:18			
Fluorobenzene	1285610	7.6	1190594	7.62	108	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	463006	10.74	471003	10.76	98	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	491533	13.14	335738	13.15	146	50 - 200	-0.0100	+/-0.50	
LCS (2K08002-BS1)			Lab File ID: 1108LCS1.D			Analyzed: 11/08/12 08:46			
Fluorobenzene	1292231	7.6	1285610	7.6	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	453703	10.74	463006	10.74	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	491631	13.14	491533	13.14	100	50 - 200	0.0000	+/-0.50	
Blank (2K08002-BLK1)			Lab File ID: 1108BLK1.D			Analyzed: 11/08/12 10:10			
Fluorobenzene	1368552	7.6	1285610	7.6	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	505467	10.74	463006	10.74	109	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	397859	13.14	491533	13.14	81	50 - 200	0.0000	+/-0.50	
GW0877R (1211062-01)			Lab File ID: 1106201.D			Analyzed: 11/08/12 10:37			
Fluorobenzene	1351438	7.6	1285610	7.6	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	513705	10.74	463006	10.74	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	505807	13.14	491533	13.14	103	50 - 200	0.0000	+/-0.50	
GW0880R (1211062-02)			Lab File ID: 1106202.D			Analyzed: 11/08/12 11:09			
Fluorobenzene	1382201	7.6	1285610	7.6	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	518764	10.74	463006	10.74	112	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	506886	13.14	491533	13.14	103	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31408-CCV1)			Lab File ID: 1109CCV1.D			Analyzed: 11/09/12 07:01			
Fluorobenzene	1288498	7.6	1190594	7.62	108	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	461027	10.74	471003	10.76	98	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	492310	13.14	335738	13.15	147	50 - 200	-0.0100	+/-0.50	
LCS (2K09002-BS1)			Lab File ID: 1109LCS1.D			Analyzed: 11/09/12 07:29			
Fluorobenzene	1272964	7.6	1288498	7.6	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	449136	10.74	461027	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	496115	13.14	492310	13.14	101	50 - 200	0.0000	+/-0.50	
Blank (2K09002-BLK1)			Lab File ID: 1109BLK1.D			Analyzed: 11/09/12 08:52			
Fluorobenzene	1371101	7.59	1288498	7.6	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	510010	10.74	461027	10.74	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	509258	13.14	492310	13.14	103	50 - 200	0.0000	+/-0.50	
GW0876R (1211075-01)			Lab File ID: 1107501.D			Analyzed: 11/09/12 09:20			
Fluorobenzene	1374153	7.59	1288498	7.6	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	510681	10.74	461027	10.74	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	509082	13.14	492310	13.14	103	50 - 200	0.0000	+/-0.50	
GW0878 (1211075-02)			Lab File ID: 1107502.D			Analyzed: 11/09/12 09:48			
Fluorobenzene	1375347	7.59	1288498	7.6	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	511475	10.74	461027	10.74	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	504937	13.14	492310	13.14	103	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2121003		Instrument:	MS-VOA6	
Matrix:	Water		Calibration Dates:	4/27/12 9:57	4/27/12 13:31

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

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2121003
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 4/27/12 9:57 4/27/12 13:31

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2121003	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	4/27/12 9:57 4/27/12 13:31

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2121003	Instrument:	MS-VOA6	
Matrix:	Water	Calibration Dates:	4/27/12 9:57	4/27/12 13:31

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2121003	Instrument:	MS-VOA6	
Matrix:	Water	Calibration Dates:	4/27/12 9:57	4/27/12 13:31

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

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

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

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.659347	1	1.527997	2	1.462632	5	1.537842	10	1.418009	50	1.341542
1,4-Dichlorobenzene	0.5	1.704623	1	1.621969	2	1.435676	5	1.618494	10	1.517991	50	1.472998
Dichlorodifluoromethane	0.5	0.2418851	1	0.2393317	2	0.2325231	5	0.2584256	10	0.3039863	50	0.2970737
1,1-Dichloroethane	0.5	0.5801718	1	0.5292799	2	0.5433214	5	0.5824807	10	0.5674272	50	0.5517154
1,2-Dichloroethane	0.5	0.4577003	1	0.4664608	2	0.4649445	5	0.4986183	10	0.4653561	50	0.4755698
1,1-Dichloroethene	0.5	0.2258182	1	0.2151328	2	0.1973795	5	0.2358991	10	0.2329928	50	0.226227
cis-1,2-Dichloroethene	0.5	0.3485488	1	0.2942823	2	0.278491	5	0.3126759	10	0.3089413	50	0.2947265
trans-1,2-Dichloroethene	0.5	0.3055309	1	0.3056336	2	0.2551001	5	0.2900334	10	0.2690305	50	0.2686659
1,2-Dichloroethene (total)	1	0.3270399	2	0.2999579	4	0.2667955	10	0.3013546	20	0.2889859	100	0.2816962
1,2-Dichloropropane	0.5	0.3515549	1	0.2857946	2	0.3003938	5	0.3462037	10	0.3205553	50	0.3179448
1,3-Dichloropropane	0.5	0.9764418	1	0.9567702	2	1.006722	5	1.102503	10	1.071811	50	1.064477
2,2-Dichloropropane	0.5	0.4627277	1	0.3879821	2	0.3681245	5	0.4188481	10	0.4015827	50	0.4143792
1,1-Dichloropropene	0.5	0.3584481	1	0.3979661	2	0.3595389	5	0.3879962	10	0.3880272	50	0.3832157
cis-1,3-Dichloropropene	0.5	0.4679624	1	0.4134193	2	0.4252091	5	0.4856114	10	0.476467	50	0.481817
trans-1,3-Dichloropropene	0.5	1.087745	1	0.8734273	2	0.9401482	5	1.04063	10	1.025082	50	1.06396
Diisopropyl Ether	0.5	1.656553	1	1.323716	2	1.355187	5	1.462499	10	1.448533	50	1.416893
Ethylbenzene	0.5	2.958304	1	2.712674	2	2.634324	5	2.834619	10	2.75017	50	2.725992
Ethyl tert-Butyl Ether	0.5	1.04404	1	0.9879754	2	0.9619292	5	1.052878	10	1.030574	50	1.036999
Ethyl Methacrylate	0.5	0.8323399	1	0.729102	2	0.7477697	5	0.8346571	10	0.8215563	50	0.8808551
Hexachlorobutadiene	0.5	0.327858	1	0.27678	2	0.2044853	5	0.2287677	10	0.2401323	50	0.2104516
2-Hexanone	1	0.8759393	2	0.5350726	4	0.6107579	10	0.6638047	20	0.6469072	100	0.6363296
Iodomethane	0.5	0.3814601	1	0.3595522	2	0.352467	5	0.4091521	10	0.4336084	50	0.466603
Isopropylbenzene	0.5	2.096854	1	2.039571	2	2.038669	5	2.223489	10	2.156057	50	2.185784
p-Isopropyltoluene	0.5	1.584283	1	1.521244	2	1.404971	5	1.624106	10	1.596767	50	1.722013
Methylene chloride	0.5	0.3533171	1	0.3178362	2	0.2885012	5	0.3208096	10	0.3086809	50	0.2984568
Methyl Acetate	0.5	~~0.4034874~~	1	0.2549139	2	0.2926477	5	0.2820962	10	0.2809176	50	0.2759045
Methylcyclohexane	0.5	0.2939213	1	0.2609766	2	0.2581909	5	0.286672	10	0.2793021	50	0.2830842
Naphthalene	0.5	0.8803116	1	0.6655084	2	0.7034559	5	0.83726	10	0.8517879	50	0.873391
Methyl Methacrylate	0.5	0.4218866	1	0.3140697	2	0.3161786	5	0.3386494	10	0.3366743	50	0.3418622
4-Methyl-2-pentanone	1	0.4233119	2	0.3322446	4	0.3347934	10	0.3563104	20	0.3608402	100	0.3569288
Methyl t-Butyl Ether	0.5	0.6783875	1	0.6749634	2	0.6094749	5	0.6726878	10	0.6621038	50	0.6681816

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	0.1266626	300	0.1231423	400	0.1178324						
Acrolein	501.5	3.545277E-02	752.2	3.651356E-02	1003	3.745221E-02						
Acrylonitrile	499.7	0.1044768	749.6	0.1039993	999.4	0.1003698						
Benzene	100	0.9235232	150	0.8594138	200	0.7849292						
Bromobenzene	100	0.8881735	150	0.8599457	200	0.8316292						
Bromochloromethane	100	0.1667734	150	0.1606741	200	0.1579936						
Tert-Amyl Methyl Ether	100	0.7262016	150	0.6707946	200	0.6177467						
Bromodichloromethane	100	0.3929716	150	0.3702909	200	0.3476311						
Bromoform	100	0.6462845	150	~~0.6617821~~	200	~~0.659788~~						
Bromomethane	100	0.2108286	150	0.2070282	200	0.2060198						
Bromofluorobenzene	30	0.9824568	30	0.9999227	30	0.9994479						
n-Butylbenzene	100	1.523087	150	1.449184	200	1.348779						
2-Butanone	200	0.195438	300	0.1889607	400	0.1844391						
sec-Butylbenzene	100	2.112831	150	1.921296	200	1.738243						
tert-Butylbenzene	100	1.760964	150	1.674096	200	1.555494						
Carbon disulfide	100	0.6413098	150	0.6082213	200	0.6090515						
Carbon tetrachloride	100	0.3840762	150	0.3669635	200	0.3516571						
Chlorobenzene	100	1.541911	150	1.466087	200	1.381431						
Chloroethane	100	0.1836753	150	0.1742626	200	0.1667518						
Chloroform	100	0.5096551	150	0.4704461	200	0.4420506						
2-Chloroethyl vinyl ether	199.5	0.1804314	299.2	0.1684203	399	0.1572394						
Chloromethane	100	0.3578709	150	0.3365053	200	0.3209209						
1-Chlorohexane	100	0.7767257	150	0.7396203	200	0.7120631						
2-Chlorotoluene	100	1.902054	150	1.764556	200	1.587876						
4-Chlorotoluene	100	2.141204	150	1.983296	200	1.805777						
Cyclohexane	100	0.4070208	150	0.3891092	200	0.3732226						
Dibromochloromethane	100	0.8453414	150	0.8429101	200	0.8141642						
1,2-Dibromo-3-chloropropane	100	0.1572772	150	0.1614128	200	0.1546557						
1,2-Dibromoethane (EDB)	100	0.6986333	150	0.6857349	200	0.6688842						
Dibromomethane	100	0.2208477	150	0.2065651	200	0.197802						
1,2-Dichlorobenzene	100	1.251456	150	1.217215	200	1.144362						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.336381	150	1.307302	200	1.210477						
1,4-Dichlorobenzene	100	1.465122	150	1.404034	200	1.301508						
Dichlorodifluoromethane	100	0.2883207	150	0.2679091	200	0.2564453						
1,1-Dichloroethane	100	0.5468606	150	0.5220661	200	0.5052939						
1,2-Dichloroethane	100	0.4473436	150	0.4127259	200	0.3872583						
1,1-Dichloroethene	100	0.2225573	150	0.2100764	200	0.2138721						
cis-1,2-Dichloroethene	100	0.2981693	150	0.2856926	200	0.274881						
trans-1,2-Dichloroethene	100	0.2624296	150	0.2483985	200	0.2420407						
1,2-Dichloroethene (total)	200	0.2802994	300	0.2670456	400	0.2584608						
1,2-Dichloropropane	100	0.3118958	150	0.2980104	200	0.2831874						
1,3-Dichloropropane	100	1.067553	150	1.032431	200	0.9749471						
2,2-Dichloropropane	100	0.4025817	150	0.3756275	200	0.3526653						
1,1-Dichloropropene	100	0.3776621	150	0.3571731	200	0.3353771						
cis-1,3-Dichloropropene	100	0.4757073	150	0.4493707	200	0.4159489						
trans-1,3-Dichloropropene	100	1.017311	150	0.9559691	200	0.8866128						
Diisopropyl Ether	100	1.342089	150	1.225994	200	1.115844						
Ethylbenzene	100	2.576414	150	2.335666	200	2.063086						
Ethyl tert-Butyl Ether	100	1.001227	150	0.9096821	200	0.8316089						
Ethyl Methacrylate	100	0.9116472	150	0.8839081	200	0.8561447						
Hexachlorobutadiene	100	0.2507218	150	0.2632424	200	0.2650239						
2-Hexanone	200	0.6392215	300	0.6188601	400	0.5808973						
Iodomethane	100	0.4558964	150	0.4324466	200	0.4359104						
Isopropylbenzene	100	2.110598	150	1.930801	200	1.764106						
p-Isopropyltoluene	100	1.726902	150	1.613216	200	1.476111						
Methylene chloride	100	0.2911459	150	0.2911504	200	0.2826383						
Methyl Acetate	100	0.2647661	150	0.264273	200	0.2523324						
Methylcyclohexane	100	0.2888642	150	0.2710586	200	0.2594319						
Naphthalene	100	0.9609156	150	1.027227	200	0.9662239						
Methyl Methacrylate	100	0.3408883	150	0.3196133	200	0.3028905						
4-Methyl-2-pentanone	200	0.3444019	300	0.3182518	400	0.2882798						
Methyl t-Butyl Ether	100	0.6449987	150	0.607574	200	0.5808785						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.742988	150	2.4168	200	2.100691						
Styrene	100	1.722777	150	1.617389	200	1.512023						
1,1,2,2-Tetrachloroethane	100	0.8059682	150	0.7844217	200	0.7425934						
1,1,1,2-Tetrachloroethane	100	0.6655796	150	0.662686	200	0.6518395						
tert-Butyl alcohol	500	2.189285E-02	750	2.152677E-02	1000	2.206532E-02						
Tetrachloroethene	100	0.7022279	150	0.714417	200	0.7136411						
Toluene	100	1.427433	150	1.367729	200	1.304066						
1,2,3-Trichlorobenzene	100	0.441067	150	0.4788034	200	0.4724479						
1,2,4-Trichlorobenzene	100	0.5401172	150	0.5816383	200	0.5677333						
1,1,2-Trichloroethane	100	0.517336	150	0.5117101	200	0.4934725						
1,1,1-Trichloroethane	100	0.4290463	150	0.4029258	200	0.3865336						
Tetrahydrofuran	100	2.671989E-02	150	2.566542E-02	200	2.647819E-02						
Trichloroethene	100	0.2872951	150	0.2697105	200	0.2573622						
Trichlorofluoromethane	100	0.4694212	150	0.4413153	200	0.4223437						
1,2,3-Trichloropropane	100	0.2087153	150	0.2066379	200	0.2038684						
1,3,5-Trimethylbenzene	100	2.053956	150	1.864038	200	1.691768						
1,2,4-Trimethylbenzene	100	1.899135	150	1.78786	200	1.608316						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2283044	150	0.2158549	200	0.2123486						
Vinyl chloride	100	0.1981654	150	~~0.1639443~~	200	~~0.1466384~~						
m,p-Xylene	200	1.741986	300	1.492592	400	1.308365						
o-Xylene	100	1.940067	150	1.777874	200	1.617302						
Vinyl acetate	199.2	0.8136057	298.9	0.6943068	398.5	~~0.6040652~~						
Xylenes (total)	300	1.808013	450	1.587687	600	1.411344						
Dibromofluoromethane	30	0.3393876	30	0.342012	30	0.3453447						
1,2-Dichloroethane-d4	30	6.075024E-02	30	6.202381E-02	30	6.320841E-02						
Toluene-d8	30	2.316447	30	2.435615	30	2.422273						
tert-Amyl alcohol	500	1.824924E-02	750	1.817118E-02	1000	1.797343E-02						
tert-Amyl ethyl ether	100	0.8042518	150	0.7298337	200	0.6696996						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

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

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	0427ICV2.D	Calibration Date:	04/27/12 09:57
Sequence:	2D12109	Injection Date:	04/27/12
Lab Sample ID:	2D12109-ICV2	Injection Time:	14:52

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV3.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/16/12
Lab Sample ID:	2J29101-ICV3	Injection Time:	14:13

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

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1030CCVE.D	Calibration Date:	04/27/12 09:57
Sequence:	2J30502	Injection Date:	10/30/12
Lab Sample ID:	2J30502-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	135.7	8.548666E-02	5.799597E-02		-32.2	20 *
Benzene	A	100.0	89.24	0.9315107	0.8312577		-10.8	20
Bromobenzene	A	100.0	95.50	0.7087812	0.6768904		-4.5	20
Bromochloromethane	A	100.0	92.66	0.1195172	0.1107469		-7.3	20
Bromodichloromethane	A	100.0	104.9	0.2918713	0.306268		4.9	20
Bromoform	Q	100.0	92.09	0.2807903	0.318409	0.1	-7.9	20
Bromomethane	A	100.0	86.96	0.1508425	0.1311688		-13.0	20
n-Butylbenzene	A	100.0	91.60	1.996493	1.82872		-8.4	20
2-Butanone	A	200.0	148.2	0.1504013	0.1114462		-25.9	20 *
sec-Butylbenzene	A	100.0	91.85	2.683693	2.464914		-8.2	20
tert-Butylbenzene	A	100.0	96.51	1.962219	1.89368		-3.5	20
Carbon disulfide	A	100.0	89.47	0.549092	0.4912799		-10.5	20
Carbon tetrachloride	A	100.0	98.38	0.2201406	0.2165674		-1.6	20
Chlorobenzene	A	100.0	89.21	1.46879	1.310319	0.3	-10.8	20
Chloroethane	A	100.0	86.85	0.1477522	0.1283224		-13.2	20
Chloroform	A	100.0	95.78	0.4138944	0.3964094		-4.2	20
Chloromethane	A	100.0	82.79	0.2843574	0.2354312	0.1	-17.2	20
2-Chlorotoluene	A	100.0	97.13	2.089316	2.029395		-2.9	20
4-Chlorotoluene	A	100.0	96.28	2.383943	2.295203		-3.7	20
Dibromochloromethane	Q	100.0	91.40	0.4682909	0.49939		-8.6	20
1,2-Dibromo-3-chloropropane	Q	100.0	90.49	0.1119305	0.1243719		-9.5	20
1,2-Dibromoethane (EDB)	A	100.0	94.68	0.5515188	0.5221791		-5.3	20
Dibromomethane	A	100.0	95.37	0.159759	0.1523593		-4.6	20
1,2-Dichlorobenzene	A	100.0	90.54	1.203659	1.089765		-9.5	20
1,3-Dichlorobenzene	A	100.0	90.57	1.256964	1.138483		-9.4	20
1,4-Dichlorobenzene	A	100.0	93.96	1.26803	1.191405		-6.0	20
Dichlorodifluoromethane	A	100.0	92.18	0.1924809	0.1774316		-7.8	20
1,1-Dichloroethane	A	100.0	90.95	0.4594785	0.4178829	0.1	-9.1	20
1,2-Dichloroethane	A	100.0	106.6	0.3510167	0.3741592		6.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1030CCVE.D	Calibration Date:	04/27/12 09:57
Sequence:	2J30502	Injection Date:	10/30/12
Lab Sample ID:	2J30502-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	79.58	0.1816551	0.144559		-20.4	20 *
cis-1,2-Dichloroethene	A	100.0	94.30	0.2461851	0.2321612		-5.7	20
trans-1,2-Dichloroethene	A	100.0	84.76	0.2335685	0.1979732		-15.2	20
1,2-Dichloropropane	A	100.0	95.07	0.259293	0.2465052		-4.9	20
1,3-Dichloropropane	A	100.0	96.27	0.8986729	0.8651919		-3.7	20
2,2-Dichloropropane	A	100.0	96.63	0.2935838	0.2837043		-3.4	20
1,1-Dichloropropene	A	100.0	87.02	0.319009	0.2776035		-13.0	20
cis-1,3-Dichloropropene	A	100.0	106.8	0.3521134	0.3759784		6.8	20
trans-1,3-Dichloropropene	A	100.0	102.1	0.8239793	0.8413355		2.1	20
Ethylbenzene	A	100.0	91.44	2.511121	2.296155		-8.6	20
Hexachlorobutadiene	A	100.0	65.64	0.2973976	0.1952067		-34.4	20 *
2-Hexanone	A	200.0	172.2	0.4846361	0.417253		-13.9	20
Isopropylbenzene	A	100.0	91.79	2.072041	1.901846		-8.2	20
p-Isopropyltoluene	A	100.0	93.92	2.123426	1.994303		-6.1	20
Methylene chloride	A	100.0	86.71	0.2190071	0.1898937		-13.3	20
Naphthalene	A	100.0	93.79	1.40191	1.314886		-6.2	20
4-Methyl-2-pentanone	A	200.0	180.5	0.2742899	0.2474992		-9.8	20
Methyl t-Butyl Ether	A	100.0	95.75	0.6034362	0.5777663		-4.3	20
n-Propylbenzene	A	100.0	92.45	3.366424	3.112148		-7.6	20
Styrene	A	100.0	96.41	1.582432	1.52561		-3.6	20
1,1,2,2-Tetrachloroethane	A	100.0	86.30	0.8277083	0.714294	0.3	-13.7	20
1,1,1,2-Tetrachloroethane	A	100.0	101.5	0.4212623	0.4276758		1.5	20
Tetrachloroethene	A	100.0	78.69	0.5209978	0.4099931		-21.3	20 *
Toluene	A	100.0	91.88	1.306882	1.200813		-8.1	20
1,2,3-Trichlorobenzene	A	100.0	85.53	0.6431937	0.5501367		-14.5	20
1,2,4-Trichlorobenzene	A	100.0	88.02	0.7381814	0.6497182		-12.0	20
1,1,2-Trichloroethane	A	100.0	92.03	0.4426374	0.407368		-8.0	20
1,1,1-Trichloroethane	A	100.0	98.84	0.2930192	0.2896303		-1.2	20
Trichloroethene	A	100.0	99.54	0.2340808	0.2330063		-0.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1030CCVE.D	Calibration Date:	04/27/12 09:57
Sequence:	2J30502	Injection Date:	10/30/12
Lab Sample ID:	2J30502-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	80.75	0.3110129	0.2511424		-19.3	20
1,2,3-Trichloropropane	A	100.0	97.82	0.1727305	0.1689638		-2.2	20
1,3,5-Trimethylbenzene	A	100.0	102.0	2.198041	2.243035		2.0	20
1,2,4-Trimethylbenzene	A	100.0	103.1	2.208168	2.27592		3.1	20
Vinyl chloride	A	100.0	108.3	0.1848242	0.2002174		8.3	20
Xylenes (total)	A	300.0	273.3	1.916445	1.745878		-8.9	20
Bromofluorobenzene	A	30.00	31.47	0.8581783	0.9001684		4.9	20
Dibromofluoromethane	A	30.00	31.19	0.2631144	0.2735188		4.0	20
1,2-Dichloroethane-d4	A	30.00	29.35	6.156409E-02	0.0602333		-2.2	20
Toluene-d8	A	30.00	30.47	2.250463	2.285787		1.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1031CCVE.D	Calibration Date:	04/27/12 09:57
Sequence:	2K30602	Injection Date:	10/31/12
Lab Sample ID:	2K30602-CCV1	Injection Time:	20:48

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	185.4	8.548666E-02	7.925117E-02		-7.3	20
Benzene	A	100.0	92.00	0.9315107	0.8569705		-8.0	20
Bromobenzene	A	100.0	98.27	0.7087812	0.6965343		-1.7	20
Bromochloromethane	A	100.0	93.95	0.1195172	0.1122848		-6.1	20
Bromodichloromethane	A	100.0	109.1	0.2918713	0.3183353		9.1	20
Bromoform	Q	100.0	91.63	0.2807903	0.3166455	0.1	-8.4	20
Bromomethane	A	100.0	106.8	0.1508425	0.1610265		6.8	20
n-Butylbenzene	A	100.0	98.11	1.996493	1.958804		-1.9	20
2-Butanone	A	200.0	173.8	0.1504013	0.1306657		-13.1	20
sec-Butylbenzene	A	100.0	97.47	2.683693	2.615684		-2.5	20
tert-Butylbenzene	A	100.0	100.6	1.962219	1.974119		0.6	20
Carbon disulfide	A	100.0	104.1	0.549092	0.5718377		4.1	20
Carbon tetrachloride	A	100.0	105.0	0.2201406	0.2311307		5.0	20
Chlorobenzene	A	100.0	88.10	1.46879	1.293975	0.3	-11.9	20
Chloroethane	A	100.0	102.2	0.1477522	0.1509569		2.2	20
Chloroform	A	100.0	99.19	0.4138944	0.4105498		-0.8	20
Chloromethane	A	100.0	97.84	0.2843574	0.2782038	0.1	-2.2	20
2-Chlorotoluene	A	100.0	101.8	2.089316	2.126552		1.8	20
4-Chlorotoluene	A	100.0	102.6	2.383943	2.44565		2.6	20
Dibromochloromethane	Q	100.0	91.43	0.4682909	0.4995613		-8.6	20
1,2-Dibromo-3-chloropropane	Q	100.0	93.87	0.1119305	0.1293928		-6.1	20
1,2-Dibromoethane (EDB)	A	100.0	95.68	0.5515188	0.5276713		-4.3	20
Dibromomethane	A	100.0	97.78	0.159759	0.1562179		-2.2	20
1,2-Dichlorobenzene	A	100.0	94.35	1.203659	1.1356		-5.7	20
1,3-Dichlorobenzene	A	100.0	93.58	1.256964	1.176269		-6.4	20
1,4-Dichlorobenzene	A	100.0	97.57	1.26803	1.237179		-2.4	20
Dichlorodifluoromethane	A	100.0	111.4	0.1924809	0.2145193		11.4	20
1,1-Dichloroethane	A	100.0	94.40	0.4594785	0.4337584	0.1	-5.6	20
1,2-Dichloroethane	A	100.0	110.9	0.3510167	0.3893878		10.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1031CCVE.D	Calibration Date:	04/27/12 09:57
Sequence:	2K30602	Injection Date:	10/31/12
Lab Sample ID:	2K30602-CCV1	Injection Time:	20:48

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	90.01	0.1816551	0.1635129		-10.0	20
cis-1,2-Dichloroethene	A	100.0	96.41	0.2461851	0.237349		-3.6	20
trans-1,2-Dichloroethene	A	100.0	87.81	0.2335685	0.2050932		-12.2	20
1,2-Dichloropropane	A	100.0	98.93	0.259293	0.2565198		-1.1	20
1,3-Dichloropropane	A	100.0	96.25	0.8986729	0.8649455		-3.8	20
2,2-Dichloropropane	A	100.0	100.7	0.2935838	0.2956294		0.7	20
1,1-Dichloropropene	A	100.0	92.93	0.319009	0.2964541		-7.1	20
cis-1,3-Dichloropropene	A	100.0	109.0	0.3521134	0.3838643		9.0	20
trans-1,3-Dichloropropene	A	100.0	103.0	0.8239793	0.848297		3.0	20
Ethylbenzene	A	100.0	93.38	2.511121	2.344813		-6.6	20
Hexachlorobutadiene	A	100.0	69.98	0.2973976	0.2081064		-30.0	20 *
2-Hexanone	A	200.0	200.7	0.4846361	0.4862739		0.3	20
Isopropylbenzene	A	100.0	95.93	2.072041	1.987778		-4.1	20
p-Isopropyltoluene	A	100.0	100.2	2.123426	2.128491		0.2	20
Methylene chloride	A	100.0	96.66	0.2190071	0.2116933		-3.3	20
Naphthalene	A	100.0	94.48	1.40191	1.324544		-5.5	20
4-Methyl-2-pentanone	A	200.0	214.7	0.2742899	0.294397		7.3	20
Methyl t-Butyl Ether	A	100.0	96.92	0.6034362	0.5848464		-3.1	20
n-Propylbenzene	A	100.0	100.1	3.366424	3.370157		0.1	20
Styrene	A	100.0	97.86	1.582432	1.548497		-2.1	20
1,1,2,2-Tetrachloroethane	A	100.0	92.72	0.8277083	0.7674263	0.3	-7.3	20
1,1,1,2-Tetrachloroethane	A	100.0	101.3	0.4212623	0.4265697		1.3	20
Tetrachloroethene	A	100.0	81.60	0.5209978	0.4251566		-18.4	20
Toluene	A	100.0	94.59	1.306882	1.236116		-5.4	20
1,2,3-Trichlorobenzene	A	100.0	88.23	0.6431937	0.5674956		-11.8	20
1,2,4-Trichlorobenzene	A	100.0	89.71	0.7381814	0.6622564		-10.3	20
1,1,2-Trichloroethane	A	100.0	91.80	0.4426374	0.4063449		-8.2	20
1,1,1-Trichloroethane	A	100.0	104.9	0.2930192	0.3074692		4.9	20
Trichloroethene	A	100.0	102.6	0.2340808	0.2401114		2.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	2121003
Lab File ID:	1031CCVE.D	Calibration Date:	04/27/12 09:57
Sequence:	2K30602	Injection Date:	10/31/12
Lab Sample ID:	2K30602-CCV1	Injection Time:	20:48

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	103.5	0.3110129	0.32192		3.5	20
1,2,3-Trichloropropane	A	100.0	98.33	0.1727305	0.1698485		-1.7	20
1,3,5-Trimethylbenzene	A	100.0	108.9	2.198041	2.394639		8.9	20
1,2,4-Trimethylbenzene	A	100.0	109.2	2.208168	2.411013		9.2	20
Vinyl chloride	A	100.0	131.7	0.1848242	0.2433931		31.7	20 *
Xylenes (total)	A	300.0	281.0	1.916445	1.79506		-6.3	20
Bromofluorobenzene	A	30.00	30.90	0.8581783	0.8837868		3.0	20
Dibromofluoromethane	A	30.00	31.54	0.2631144	0.2766101		5.1	20
1,2-Dichloroethane-d4	A	30.00	29.75	6.156409E-02	6.105537E-02		-0.8	20
Toluene-d8	A	30.00	29.90	2.250463	2.242658		-0.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1108CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31306	Injection Date:	11/08/12
Lab Sample ID:	2K31306-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	89.76	0.1308263	0.1174355		-10.2	20
Benzene	A	50.00	47.77	0.9492909	0.9068979		-4.5	20
Bromobenzene	A	50.00	43.26	0.9753776	0.8438217		-13.5	20
Bromochloromethane	A	50.00	53.46	0.1703055	0.1820904		6.9	20
Bromodichloromethane	A	50.00	46.44	0.3668169	0.3407088		-7.1	20
Bromoform	Q	50.00	53.37	0.505661	0.6368587	0.1	6.7	20
Bromomethane	A	50.00	39.90	0.2263207	0.1806226		-20.2	20 *
n-Butylbenzene	A	50.00	55.14	1.316239	1.451672		10.3	20
2-Butanone	A	100.0	94.59	0.1900461	0.1797676		-5.4	20
sec-Butylbenzene	A	50.00	50.69	2.066344	2.094807		1.4	20
tert-Butylbenzene	A	50.00	53.13	1.705204	1.811938		6.3	20
Carbon disulfide	A	50.00	58.85	0.6412047	0.7546733		17.7	20
Carbon tetrachloride	A	50.00	48.07	0.3465177	0.333172		-3.9	20
Chlorobenzene	A	50.00	55.93	1.561071	1.746284	0.3	11.9	20
Chloroethane	A	50.00	47.61	0.1885512	0.1795258		-4.8	20
Chloroform	A	50.00	44.18	0.524999	0.4638511		-11.6	20
Chloromethane	A	50.00	49.07	0.3854947	0.3783326	0.1	-1.9	20
2-Chlorotoluene	A	50.00	44.98	2.094181	1.883853		-10.0	20
4-Chlorotoluene	A	50.00	48.37	2.218103	2.145809		-3.3	20
Dibromochloromethane	A	50.00	58.98	0.7653683	0.9028678		18.0	20
1,2-Dibromo-3-chloropropane	A	50.00	47.55	0.1457781	0.138623		-4.9	20
1,2-Dibromoethane (EDB)	A	50.00	51.61	0.6953223	0.7176775		3.2	20
Dibromomethane	A	50.00	44.84	0.2156063	0.1933636		-10.3	20
1,2-Dichlorobenzene	A	50.00	48.36	1.322429	1.279113		-3.3	20
1,3-Dichlorobenzene	A	50.00	45.98	1.422392	1.307977		-8.0	20
1,4-Dichlorobenzene	A	50.00	46.38	1.504713	1.395919		-7.2	20
Dichlorodifluoromethane	A	50.00	56.66	0.2651001	0.3003897		13.3	20
1,1-Dichloroethane	A	50.00	46.15	0.5476241	0.505448	0.1	-7.7	20
1,2-Dichloroethane	A	50.00	38.65	0.4528864	0.350041		-22.7	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1108CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31306	Injection Date:	11/08/12
Lab Sample ID:	2K31306-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	58.99	0.219995	0.2595437		18.0	20
cis-1,2-Dichloroethene	A	50.00	46.99	0.299601	0.2815656		-6.0	20
trans-1,2-Dichloroethene	A	50.00	49.57	0.2718737	0.2695377		-0.9	20
1,2-Dichloropropane	A	50.00	44.57	0.3128379	0.2788826		-10.9	20
1,3-Dichloropropane	A	50.00	45.21	1.028184	0.9296147		-9.6	20
2,2-Dichloropropane	A	50.00	40.80	0.3982799	0.3250228		-18.4	20
1,1-Dichloropropene	A	50.00	43.98	0.3717116	0.3269242		-12.0	20
cis-1,3-Dichloropropene	A	50.00	42.69	0.4546126	0.3881432		-14.6	20
trans-1,3-Dichloropropene	A	50.00	46.17	0.9878761	0.9122525		-7.7	20
Ethylbenzene	A	50.00	52.08	2.62125	2.730413		4.2	20
Hexachlorobutadiene	A	50.00	62.67	0.2519403	0.3157949		25.3	20 *
2-Hexanone	A	100.0	98.78	0.64531	0.6374231		-1.2	20
Isopropylbenzene	A	50.00	62.29	2.060659	2.566973		24.6	20 *
p-Isopropyltoluene	A	50.00	56.92	1.585513	1.80505		13.8	20
Methylene chloride	A	50.00	46.15	0.3058374	0.2823002		-7.7	20
Naphthalene	A	50.00	54.91	0.8628979	0.9475836		9.8	20
4-Methyl-2-pentanone	A	100.0	99.13	0.3461514	0.3431408		-0.9	20
Methyl t-Butyl Ether	A	50.00	45.07	0.6443611	0.5808212		-9.9	20
n-Propylbenzene	A	50.00	50.45	2.867866	2.893719		0.9	20
Styrene	A	50.00	63.04	1.57265	1.982697		26.1	20 *
1,1,2,2-Tetrachloroethane	A	50.00	40.94	0.891879	0.7303176	0.3	-18.1	20
1,1,1,2-Tetrachloroethane	A	50.00	59.91	0.6412186	0.7683451		19.8	20
Tetrachloroethene	A	50.00	59.51	0.7104583	0.8455795		19.0	20
Toluene	A	50.00	50.14	1.442954	1.447074		0.3	20
1,2,3-Trichlorobenzene	A	50.00	62.10	0.4083448	0.5071839		24.2	20 *
1,2,4-Trichlorobenzene	A	50.00	66.55	0.4983989	0.6633308		33.1	20 *
1,1,2-Trichloroethane	A	50.00	48.79	0.5170842	0.5045287		-2.4	20
1,1,1-Trichloroethane	A	50.00	44.85	0.4192187	0.3760252		-10.3	20
Trichloroethene	A	50.00	45.64	0.2944908	0.2687873		-8.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1108CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31306	Injection Date:	11/08/12
Lab Sample ID:	2K31306-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	49.45	0.4689858	0.4638674		-1.1	20
1,2,3-Trichloropropane	A	50.00	57.60	0.1991037	0.2293564		15.2	20
1,3,5-Trimethylbenzene	A	50.00	51.66	2.039265	2.106987		3.3	20
1,2,4-Trimethylbenzene	A	50.00	52.20	1.766581	1.844265		4.4	20
Vinyl chloride	L	50.00	44.30	0.2359945	0.1742497		-11.4	20
Xylenes (total)	A	150.0	168.2	1.844136	2.071214		12.3	20
Bromofluorobenzene	A	30.00	35.37	0.9353573	1.102914		17.9	20
Dibromofluoromethane	A	30.00	29.07	0.3431068	0.3325254		-3.1	20
1,2-Dichloroethane-d4	A	30.00	30.97	6.230074E-02	6.431344E-02		3.2	20
Toluene-d8	A	30.00	32.31	2.274744	2.450258		7.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

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

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

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

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

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

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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
GW0879	10/29/12 14:32	10/30/12 08:40	10/30/12 22:22	N/A	14.00	10/30/12 22:22	1.28	14.00	
GW0880	10/29/12 11:49	10/30/12 08:40	10/30/12 22:50	N/A	14.00	10/30/12 22:50	1.42	14.00	
GW8237-TB	10/29/12 08:00	10/30/12 08:40	10/30/12 21:53	N/A	14.00	10/30/12 21:53	1.54	14.00	
GW0876	10/30/12 14:42	10/31/12 08:30	11/01/12 04:55	N/A	14.00	11/01/12 04:55	1.55	14.00	
GW0877	10/30/12 12:04	10/31/12 08:30	11/01/12 05:23	N/A	14.00	11/01/12 05:23	1.68	14.00	
GW8238-TB	10/30/12 08:00	10/31/12 08:30	11/01/12 04:26	N/A	14.00	11/01/12 04:26	1.81	14.00	
GW0877R	11/06/12 16:18	11/07/12 08:30	11/08/12 10:37	N/A	14.00	11/08/12 10:37	1.76	14.00	
GW0880R	11/06/12 11:51	11/07/12 08:30	11/08/12 11:09	N/A	14.00	11/08/12 11:09	1.93	14.00	
GW0876R	11/07/12 10:15	11/08/12 08:35	11/09/12 09:20	N/A	14.00	11/09/12 09:20	1.92	14.00	
GW0878	11/07/12 14:33	11/08/12 08:35	11/09/12 09:48	N/A	14.00	11/09/12 09:48	1.76	14.00	

Data for SW8270D Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J30408	1,000.00/1.00	1000	1.00	1.00		10/30/12
1210274-03 [GW0880]	2J30408	1,000.00/1.00	1000	1.00	1.00		10/30/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-01 [GW0876]	2J31026	1,000.00/1.00	1040	1.00	1.00		10/31/12
1210294-03 [GW0877]	2J31026	1,000.00/1.00	1020	1.00	1.00		10/31/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K08004	1,000.00/1.00	1000	1.00	1.00		11/08/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	1027401.D
Sampled:	10/29/12 14:32	Prepared:	10/30/12 10:30	Analyzed:	10/30/12 16:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J30408 Sequence: 2J30509 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UX
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

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	1027401.D
Sampled:	10/29/12 14:32	Prepared:	10/30/12 10:30	Analyzed:	10/30/12 16:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J30408 Sequence: 2J30509 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.20	82.4	50 - 110	
2-Fluorophenol	100.0	39.34	39.3	20 - 110	
Nitrobenzene-d5	50.00	40.96	81.9	40 - 110	
Phenol-d6	100.0	23.55	23.6	0 - 110	
Terphenyl-d14	50.00	45.58	91.2	50 - 135	
2,4,6-Tribromophenol	100.0	88.83	88.8	40 - 125	

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	1027403.D
Sampled:	10/29/12 11:49	Prepared:	10/30/12 10:30	Analyzed:	10/30/12 16:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J30408 Sequence: 2J30509 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UX
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

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	1027403.D
Sampled:	10/29/12 11:49	Prepared:	10/30/12 10:30	Analyzed:	10/30/12 16:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J30408 Sequence: 2J30509 Calibration: 2261001 Instrument: MS-BNA3

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.12	80.2	50 - 110	
2-Fluorophenol	100.0	39.24	39.2	20 - 110	
Nitrobenzene-d5	50.00	39.93	79.9	40 - 110	
Phenol-d6	100.0	23.44	23.4	0 - 110	
Terphenyl-d14	50.00	45.26	90.5	50 - 135	
2,4,6-Tribromophenol	100.0	89.88	89.9	40 - 125	

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	1029401.D
Sampled:	10/30/12 14:42	Prepared:	10/31/12 12:45	Analyzed:	10/31/12 16:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	UQ
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	UQ
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	UX
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	UQ
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	UQ
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	UQ
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	UQ
105-60-2	Caprolactam		1.20	2.40	4.81	UX
86-74-8	Carbazole		1.20	2.40	4.81	UQ
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	UQ
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	UQ
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	UQ
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	UQ
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	UXQ
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	UX
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	1029401.D
Sampled:	10/30/12 14:42	Prepared:	10/31/12 12:45	Analyzed:	10/31/12 16:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	U
206-44-0	Fluoranthene		1.20	2.40	4.81	UQ
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		1.20	2.40	4.81	UQ
100-01-6	4-Nitroaniline		4.81	9.62	19.2	UQ
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	UQ
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	UX
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	44.43	92.4	50 - 110	
2-Fluorophenol	96.15	41.92	43.6	20 - 110	
Nitrobenzene-d5	48.08	43.60	90.7	40 - 110	
Phenol-d6	96.15	25.10	26.1	0 - 110	
Terphenyl-d14	48.08	52.26	109	50 - 135	
2,4,6-Tribromophenol	96.15	100.7	105	40 - 125	

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	1029403.D
Sampled:	10/30/12 12:04	Prepared:	10/31/12 12:45	Analyzed:	10/31/12 16:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	UQ
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	UQ
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	UX
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	UQ
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	UQ
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	UQ
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	UQ
105-60-2	Caprolactam		1.23	2.45	4.90	UX
86-74-8	Carbazole		1.23	2.45	4.90	UQ
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	UQ
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	UQ
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	UQ
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	UQ
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	UXQ
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	UX
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

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	1029403.D
Sampled:	10/30/12 12:04	Prepared:	10/31/12 12:45	Analyzed:	10/31/12 16:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	U
206-44-0	Fluoranthene		1.23	2.45	4.90	UQ
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	UQ
100-01-6	4-Nitroaniline		4.90	9.80	19.6	UQ
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	UQ
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	UX
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	45.07	91.9	50 - 110	
2-Fluorophenol	98.04	44.78	45.7	20 - 110	
Nitrobenzene-d5	49.02	45.40	92.6	40 - 110	
Phenol-d6	98.04	28.11	28.7	0 - 110	
Terphenyl-d14	49.02	52.75	108	50 - 135	
2,4,6-Tribromophenol	98.04	104.5	107	40 - 125	

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	1107502.D
Sampled:	11/07/12 14:33	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 21:49
Solids:		Preparation:	EXT_3510	Dilution:	1

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

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	1107502.D
Sampled:	11/07/12 14:33	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 21:49
Solids:		Preparation:	EXT_3510	Dilution:	1

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

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

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	37.15	74.3	50 - 110	
2-Fluorophenol	100.0	32.13	32.1	20 - 110	
Nitrobenzene-d5	50.00	36.80	73.6	40 - 110	
Phenol-d6	100.0	19.49	19.5	0 - 110	
Terphenyl-d14	50.00	48.09	96.2	50 - 135	X
2,4,6-Tribromophenol	100.0	80.78	80.8	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30509	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2J30509-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/30/12 12:37		
2-Fluorobiphenyl	50.00	98.4	80 - 120	8.616	8.616	0.0000	+/-0.500	
2-Fluorophenol	100.0	108	80 - 120	3.989	3.989	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.297	6.297	0.0000	+/-0.500	
Phenol-d6	100.0	106	80 - 120	5.138	5.138	0.0000	+/-0.500	
Terphenyl-d14	50.00	117	80 - 120	13.211	13.211	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	106	80 - 120	10.437	10.437	0.0000	+/-0.500	
Blank (2J30408-BLK1) ug/L				Lab File ID: J30408B1.D		Analyzed: 10/30/12 13:33		
2-Fluorobiphenyl	50.00	82.0	50 - 110	8.614	8.616	-0.0020	+/-0.500	
2-Fluorophenol	100.0	32.6	20 - 110	3.987	3.989	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	83.9	40 - 110	6.295	6.297	-0.0020	+/-0.500	
Phenol-d6	100.0	23.5	0 - 110	5.136	5.138	-0.0020	+/-0.500	
Terphenyl-d14	50.00	94.8	50 - 135	13.209	13.211	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	64.8	40 - 125	10.435	10.437	-0.0020	+/-0.500	
LCS (2J30408-BS1) ug/L				Lab File ID: J30408L1.D		Analyzed: 10/30/12 14:01		
2-Fluorobiphenyl	50.00	92.5	50 - 110	8.614	8.616	-0.0020	+/-0.500	
2-Fluorophenol	100.0	49.0	20 - 110	3.987	3.989	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	92.2	40 - 110	6.295	6.297	-0.0020	+/-0.500	
Phenol-d6	100.0	28.7	0 - 110	5.136	5.138	-0.0020	+/-0.500	
Terphenyl-d14	50.00	99.2	50 - 135	13.209	13.211	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	99.6	40 - 125	10.435	10.437	-0.0020	+/-0.500	
LCS Dup (2J30408-BSD1) ug/L				Lab File ID: J30408L2.D		Analyzed: 10/30/12 14:28		
2-Fluorobiphenyl	50.00	89.2	50 - 110	8.613	8.616	-0.0030	+/-0.500	
2-Fluorophenol	100.0	48.5	20 - 110	3.987	3.989	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	90.2	40 - 110	6.295	6.297	-0.0020	+/-0.500	
Phenol-d6	100.0	28.4	0 - 110	5.136	5.138	-0.0020	+/-0.500	
Terphenyl-d14	50.00	91.1	50 - 135	13.209	13.211	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	97.9	40 - 125	10.435	10.437	-0.0020	+/-0.500	
GW0879 (1210274-01) ug/L				Lab File ID: 1027401.D		Analyzed: 10/30/12 16:19		
2-Fluorobiphenyl	50.00	82.4	50 - 110	8.614	8.616	-0.0020	+/-0.500	
2-Fluorophenol	100.0	39.3	20 - 110	3.987	3.989	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	81.9	40 - 110	6.295	6.297	-0.0020	+/-0.500	
Phenol-d6	100.0	23.6	0 - 110	5.136	5.138	-0.0020	+/-0.500	
Terphenyl-d14	50.00	91.2	50 - 135	13.209	13.211	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	88.8	40 - 125	10.435	10.437	-0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30509	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0880 (1210274-03) ug/L				Lab File ID: 1027403.D		Analyzed: 10/30/12 16:47		
2-Fluorobiphenyl	50.00	80.2	50 - 110	8.616	8.616	0.0000	+/-0.500	
2-Fluorophenol	100.0	39.2	20 - 110	3.99	3.989	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	79.9	40 - 110	6.298	6.297	0.0010	+/-0.500	
Phenol-d6	100.0	23.4	0 - 110	5.128	5.138	-0.0100	+/-0.500	
Terphenyl-d14	50.00	90.5	50 - 135	13.212	13.211	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	89.9	40 - 125	10.428	10.437	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30609	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K30609-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/31/12 14:10		
2-Fluorobiphenyl	50.00	99.3	80 - 120	8.613	8.613	0.0000	+/-0.500	
2-Fluorophenol	100.0	106	80 - 120	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	103	80 - 120	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	105	80 - 120	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	117	80 - 120	13.209	13.209	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	106	80 - 120	10.435	10.435	0.0000	+/-0.500	
Blank (2J31026-BLK1) ug/L				Lab File ID: J31026B1.D		Analyzed: 10/31/12 15:06		
2-Fluorobiphenyl	50.00	91.0	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	100.0	38.8	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	89.3	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	25.9	0 - 110	5.126	5.136	-0.0100	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	13.209	13.209	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	86.9	40 - 125	10.425	10.435	-0.0100	+/-0.500	
LCS (2J31026-BS1) ug/L				Lab File ID: J31026L1.D		Analyzed: 10/31/12 15:34		
2-Fluorobiphenyl	50.00	90.7	50 - 110	8.613	8.613	0.0000	+/-0.500	
2-Fluorophenol	100.0	49.6	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	91.2	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	31.4	0 - 110	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	112	50 - 135	13.209	13.209	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	108	40 - 125	10.435	10.435	0.0000	+/-0.500	
LCS Dup (2J31026-BSD1) ug/L				Lab File ID: J31026L2.D		Analyzed: 10/31/12 16:01		
2-Fluorobiphenyl	50.00	97.0	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	100.0	52.1	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.2	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	32.3	0 - 110	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	117	50 - 135	13.209	13.209	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	117	40 - 125	10.435	10.435	0.0000	+/-0.500	
GW0876 (1210294-01) ug/L				Lab File ID: 1029401.D		Analyzed: 10/31/12 16:29		
2-Fluorobiphenyl	48.08	92.4	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	96.15	43.6	20 - 110	3.988	3.987	0.0010	+/-0.500	
Nitrobenzene-d5	48.08	90.7	40 - 110	6.296	6.295	0.0010	+/-0.500	
Phenol-d6	96.15	26.1	0 - 110	5.126	5.136	-0.0100	+/-0.500	
Terphenyl-d14	48.08	109	50 - 135	13.21	13.209	0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	105	40 - 125	10.426	10.435	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30609	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0877 (1210294-03) ug/L				Lab File ID: 1029403.D		Analyzed: 10/31/12 16:56		
2-Fluorobiphenyl	49.02	91.9	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	98.04	45.7	20 - 110	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	49.02	92.6	40 - 110	6.296	6.295	0.0010	+/-0.500	
Phenol-d6	98.04	28.7	0 - 110	5.126	5.136	-0.0100	+/-0.500	
Terphenyl-d14	49.02	108	50 - 135	13.209	13.209	0.0000	+/-0.500	
2,4,6-Tribromophenol	98.04	107	40 - 125	10.436	10.435	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32014-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/14/12 12:11		
2-Fluorobiphenyl	50.00	102	80 - 120	8.614	8.614	0.0000	+/-0.500	
2-Fluorophenol	100.0	114	80 - 120	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	109	80 - 120	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	124	80 - 120	13.209	13.209	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	111	80 - 120	10.425	10.425	0.0000	+/-0.500	
Blank (2K08004-BLK1) ug/L				Lab File ID: K08004B1.D		Analyzed: 11/14/12 13:07		
2-Fluorobiphenyl	50.00	91.7	50 - 110	8.613	8.614	-0.0010	+/-0.500	
2-Fluorophenol	100.0	44.6	20 - 110	3.986	3.987	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	93.1	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	25.2	0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	50.00	108	50 - 135	13.208	13.209	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	10.424	10.425	-0.0010	+/-0.500	
LCS (2K08004-BS1) ug/L				Lab File ID: K08004L1.D		Analyzed: 11/14/12 13:34		
2-Fluorobiphenyl	50.00	60.8	50 - 110	8.606	8.614	-0.0080	+/-0.500	
2-Fluorophenol	100.0	37.7	20 - 110	3.99	3.987	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	61.3	40 - 110	6.298	6.295	0.0030	+/-0.500	
Phenol-d6	100.0	21.7	0 - 110	5.129	5.136	-0.0070	+/-0.500	
Terphenyl-d14	50.00	76.0	50 - 135	13.202	13.209	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	66.9	40 - 125	10.428	10.425	0.0030	+/-0.500	
GW0878 (1211075-02) ug/L				Lab File ID: 1107502.D		Analyzed: 11/14/12 21:49		
2-Fluorobiphenyl	50.00	74.3	50 - 110	8.606	8.614	-0.0080	+/-0.500	
2-Fluorophenol	100.0	32.1	20 - 110	3.989	3.987	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	73.6	40 - 110	6.297	6.295	0.0020	+/-0.500	
Phenol-d6	100.0	19.5	0 - 110	5.128	5.136	-0.0080	+/-0.500	
Terphenyl-d14	50.00	96.2	50 - 135	13.201	13.209	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	80.8	40 - 125	10.427	10.425	0.0020	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30408	Laboratory ID:	2J30408-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	35.72	33.47	93.7	45 - 110
Acenaphthylene	35.72	36.01	101	50 - 105
Acetophenone	35.72	37.24	104	45 - 130
Anthracene	35.72	37.65	105	55 - 110
Atrazine	35.72	38.50	108	40 - 150
Benzaldehyde	35.72	40.25	113	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	35.72	36.95	103	55 - 110
Benzo(a)pyrene	35.72	38.11	107	55 - 110
Benzo(b)fluoranthene	35.72	37.60	105	45 - 120
Benzo(g,h,i)perylene	35.72	38.43	108	40 - 125
Benzoic acid	71.45	100 U	0	0 - 125
Benzo(k)fluoranthene	35.72	36.07	101	45 - 125
1,1-Biphenyl	35.72	38.37	107	45 - 135
4-Bromophenyl-phenylether	35.72	37.10	104	50 - 115
Butylbenzylphthalate	35.72	40.96	115	45 - 115
Caprolactam	35.72	8.681	24.3	5 - 110
Carbazole	35.72	40.39	113	50 - 115
4-Chloro-3-methylphenol	71.45	65.37	91.5	45 - 110
4-Chloroaniline	35.72	34.47	96.5	15 - 110
Bis(2-chloroethoxy)methane	**35.72**	**38.28**	**107**	**45 - 105**
Bis(2-chloroethyl)ether	35.72	36.73	103	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	36.02	101	25 - 130
2-Chloronaphthalene	35.72	33.14	92.8	50 - 105
2-Chlorophenol	71.45	61.07	85.5	35 - 105
4-Chlorophenyl phenyl ether	35.72	34.68	97.1	50 - 110
Chrysene	35.72	37.07	104	55 - 110
Dibenz(a,h)anthracene	35.72	38.92	109	40 - 125
Dibenzofuran	35.72	36.46	102	55 - 105
Di-n-butylphthalate	35.72	39.93	112	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30408	Laboratory ID:	2J30408-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	39.06	109	20 - 110
2,4-Dichlorophenol	71.45	66.53	93.1	50 - 105
Diethylphthalate	35.72	36.30	102	40 - 120
2,4-Dimethylphenol	71.45	63.27	88.5	30 - 110
Dimethyl phthalate	35.72	37.43	105	25 - 125
4,6-Dinitro-2-methylphenol	71.45	71.70	100	40 - 130
2,4-Dinitrophenol	71.45	63.42	88.8	15 - 140
2,4-Dinitrotoluene	35.72	38.81	109	50 - 120
2,6-Dinitrotoluene	35.72	37.63	105	50 - 115
Di-n-octylphthalate	35.72	41.53	116	35 - 135
1,2-Diphenylhydrazine	35.72	36.74	103	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	41.09	115	40 - 125
Fluoranthene	35.72	38.98	109	55 - 115
Fluorene	35.72	35.10	98.3	50 - 110
Hexachlorobenzene	35.72	37.00	104	50 - 110
Hexachlorobutadiene	35.72	31.36	87.8	25 - 105
Hexachlorocyclopentadiene	35.72	31.92	89.4	0 - 120
Hexachloroethane	35.72	28.68	80.3	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	38.11	107	45 - 125
Isophorone	35.72	34.34	96.1	50 - 110
1-Methylnaphthalene	35.72	32.63	91.4	35 - 115
2-Methylnaphthalene	35.72	32.54	91.1	45 - 105
2-Methylphenol	71.45	52.24	73.1	40 - 110
3-Methylphenol/4-Methylphenol	71.45	46.91	65.7	30 - 110
Naphthalene	35.72	33.33	93.3	40 - 100
4-Nitroaniline	35.72	40.61	114	35 - 120
3-Nitroaniline	35.72	39.01	109	20 - 125
2-Nitroaniline	35.72	39.68	111	50 - 115
Nitrobenzene	35.72	34.34	96.1	45 - 110
4-Nitrophenol	71.45	19.26	27.0	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30408	Laboratory ID:	2J30408-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	71.45	73.93	103	40 - 115
N-Nitrosodiphenylamine	35.72	32.21	90.2	50 - 110
N-Nitroso-di-n-propylamine	35.72	36.71	103	35 - 130
Pentachlorophenol	71.45	69.00	96.6	40 - 115
Phenanthrene	35.72	37.26	104	50 - 115
Phenol	71.45	21.70	30.4	0 - 115
Pyrene	35.72	38.38	107	50 - 130
2,4,6-Trichlorophenol	71.45	64.89	90.8	50 - 115
2,4,5-Trichlorophenol	71.45	69.64	97.5	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	35.72	32.01	89.6	4.45	30	45 - 110
Acenaphthylene	35.72	34.53	96.7	4.20	30	50 - 105
Acetophenone	35.72	34.30	96.0	8.21	30	45 - 130
Anthracene	35.72	36.33	102	3.56	30	55 - 110
Atrazine	35.72	36.70	103	4.79	30	40 - 150
Benzaldehyde	35.72	37.52	105	7.00	30	40 - 125
Benzidine	35.72	100 U	0		30	0 - 110
Benzo(a)anthracene	35.72	33.77	94.6	8.99	30	55 - 110
Benzo(a)pyrene	35.72	36.10	101	5.41	30	55 - 110
Benzo(b)fluoranthene	35.72	36.35	102	3.38	30	45 - 120
Benzo(g,h,i)perylene	35.72	37.14	104	3.42	30	40 - 125
Benzoic acid	71.45	100 U	0		30	0 - 125
Benzo(k)fluoranthene	35.72	34.86	97.6	3.40	30	45 - 125
1,1-Biphenyl	35.72	37.20	104	3.10	30	45 - 135
4-Bromophenyl-phenylether	35.72	36.05	101	2.86	30	50 - 115
Butylbenzylphthalate	35.72	37.49	105	8.85	30	45 - 115
Caprolactam	35.72	8.309	23.3	4.37	30	5 - 110
Carbazole	35.72	38.72	108	4.22	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30408	Laboratory ID:	2J30408-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	71.45	64.52	90.3	1.31	30	45 - 110
4-Chloroaniline	35.72	35.16	98.5	2.00	30	15 - 110
Bis(2-chloroethoxy)methane	35.72	36.89	103	3.70	30	45 - 105
Bis(2-chloroethyl)ether	35.72	33.64	94.2	8.78	30	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	33.28	93.2	7.91	30	25 - 130
2-Chloronaphthalene	35.72	32.08	89.8	3.25	30	50 - 105
2-Chlorophenol	71.45	57.79	80.9	5.53	30	35 - 105
4-Chlorophenyl phenyl ether	35.72	34.11	95.5	1.64	30	50 - 110
Chrysene	35.72	33.65	94.2	9.67	30	55 - 110
Dibenz(a,h)anthracene	35.72	36.93	103	5.27	30	40 - 125
Dibenzofuran	35.72	35.01	98.0	4.06	30	55 - 105
Di-n-butylphthalate	35.72	38.81	109	2.84	30	55 - 115
3,3'-Dichlorobenzidine	35.72	36.07	101	7.98	30	20 - 110
2,4-Dichlorophenol	71.45	67.04	93.8	0.770	30	50 - 105
Diethylphthalate	35.72	33.74	94.5	7.32	30	40 - 120
2,4-Dimethylphenol	71.45	62.03	86.8	1.97	30	30 - 110
Dimethyl phthalate	35.72	36.08	101	3.67	30	25 - 125
4,6-Dinitro-2-methylphenol	71.45	76.34	107	6.27	30	40 - 130
2,4-Dinitrophenol	71.45	70.90	99.2	11.1	30	15 - 140
2,4-Dinitrotoluene	35.72	37.11	104	4.47	30	50 - 120
2,6-Dinitrotoluene	35.72	37.48	105	0.399	30	50 - 115
Di-n-octylphthalate	35.72	40.02	112	3.72	30	35 - 135
1,2-Diphenylhydrazine	35.72	34.98	97.9	4.92	30	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	37.31	104	9.63	30	40 - 125
Fluoranthene	35.72	37.91	106	2.80	30	55 - 115
Fluorene	35.72	33.68	94.3	4.14	30	50 - 110
Hexachlorobenzene	35.72	35.71	100	3.55	30	50 - 110
Hexachlorobutadiene	35.72	31.82	89.1	1.47	30	25 - 105
Hexachlorocyclopentadiene	35.72	29.74	83.3	7.07	30	0 - 120
Hexachloroethane	35.72	26.86	75.2	6.54	30	30 - 100

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30408	Laboratory ID:	2J30408-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	35.72	36.78	103	3.55	30	45 - 125
Isophorone	35.72	33.76	94.5	1.70	30	50 - 110
1-Methylnaphthalene	35.72	32.40	90.7	0.710	30	35 - 115
2-Methylnaphthalene	35.72	32.11	89.9	1.32	30	45 - 105
2-Methylphenol	71.45	49.49	69.3	5.41	30	40 - 110
3-Methylphenol/4-Methylphenol	71.45	45.40	63.5	3.26	30	30 - 110
Naphthalene	35.72	33.21	93.0	0.377	30	40 - 100
4-Nitroaniline	35.72	40.33	113	0.684	30	35 - 120
3-Nitroaniline	35.72	37.33	105	4.43	30	20 - 125
2-Nitroaniline	35.72	38.64	108	2.66	30	50 - 115
Nitrobenzene	35.72	33.24	93.1	3.23	30	45 - 110
4-Nitrophenol	71.45	21.32	29.8	10.2	30	0 - 125
2-Nitrophenol	71.45	74.57	104	0.869	30	40 - 115
N-Nitrosodiphenylamine	35.72	31.36	87.8	2.68	30	50 - 110
N-Nitroso-di-n-propylamine	35.72	33.37	93.4	9.53	30	35 - 130
Pentachlorophenol	71.45	72.75	102	5.30	30	40 - 115
Phenanthrene	35.72	35.98	101	3.49	30	50 - 115
Phenol	71.45	21.12	29.6	2.68	30	0 - 115
Pyrene	35.72	34.52	96.6	10.6	30	50 - 130
2,4,6-Trichlorophenol	71.45	65.91	92.2	1.57	30	50 - 115
2,4,5-Trichlorophenol	71.45	70.71	99.0	1.51	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31026	Laboratory ID:	2J31026-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	35.72	32.72	91.6	45 - 110
Acenaphthylene	35.72	35.41	99.2	50 - 105
Acetophenone	35.72	36.39	102	45 - 130
Anthracene	35.72	38.15	107	55 - 110
Atrazine	35.72	39.52	111	40 - 150
Benzaldehyde	35.72	39.30	110	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	35.72	38.20	107	55 - 110
Benzo(a)pyrene	35.72	38.02	106	55 - 110
Benzo(b)fluoranthene	35.72	39.69	111	45 - 120
Benzo(g,h,i)perylene	35.72	38.21	107	40 - 125
Benzoic acid	71.45	100 U	0	0 - 125
Benzo(k)fluoranthene	35.72	34.66	97.0	45 - 125
1,1-Biphenyl	35.72	38.72	108	45 - 135
4-Bromophenyl-phenylether	35.72	38.30	107	50 - 115
Butylbenzylphthalate	**35.72**	**42.80**	**120**	**45 - 115**
Caprolactam	35.72	8.124	22.7	5 - 110
Carbazole	35.72	40.38	113	50 - 115
4-Chloro-3-methylphenol	71.45	64.48	90.2	45 - 110
4-Chloroaniline	35.72	33.65	94.2	15 - 110
Bis(2-chloroethoxy)methane	35.72	37.22	104	45 - 105
Bis(2-chloroethyl)ether	35.72	35.46	99.3	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	34.77	97.4	25 - 130
2-Chloronaphthalene	35.72	33.23	93.0	50 - 105
2-Chlorophenol	71.45	60.56	84.8	35 - 105
4-Chlorophenyl phenyl ether	35.72	34.61	96.9	50 - 110
Chrysene	35.72	38.78	109	55 - 110
Dibenz(a,h)anthracene	35.72	38.64	108	40 - 125
Dibenzofuran	35.72	35.58	99.6	55 - 105
Di-n-butylphthalate	35.72	40.22	113	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31026	Laboratory ID:	2J31026-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	38.40	108	20 - 110
2,4-Dichlorophenol	71.45	67.10	93.9	50 - 105
Diethylphthalate	35.72	35.13	98.4	40 - 120
2,4-Dimethylphenol	71.45	61.19	85.6	30 - 110
Dimethyl phthalate	35.72	36.60	102	25 - 125
4,6-Dinitro-2-methylphenol	71.45	79.70	112	40 - 130
2,4-Dinitrophenol	71.45	72.23	101	15 - 140
2,4-Dinitrotoluene	35.72	38.18	107	50 - 120
2,6-Dinitrotoluene	35.72	37.53	105	50 - 115
Di-n-octylphthalate	35.72	42.75	120	35 - 135
1,2-Diphenylhydrazine	35.72	36.46	102	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	41.97	118	40 - 125
Fluoranthene	35.72	39.08	109	55 - 115
Fluorene	35.72	34.69	97.1	50 - 110
Hexachlorobenzene	35.72	36.88	103	50 - 110
Hexachlorobutadiene	35.72	33.21	93.0	25 - 105
Hexachlorocyclopentadiene	35.72	31.67	88.7	0 - 120
Hexachloroethane	35.72	27.97	78.3	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	37.50	105	45 - 125
Isophorone	35.72	33.24	93.1	50 - 110
1-Methylnaphthalene	35.72	33.39	93.5	35 - 115
2-Methylnaphthalene	35.72	33.06	92.6	45 - 105
2-Methylphenol	71.45	51.78	72.5	40 - 110
3-Methylphenol/4-Methylphenol	71.45	46.81	65.5	30 - 110
Naphthalene	35.72	34.08	95.4	40 - 100
4-Nitroaniline	35.72	38.62	108	35 - 120
3-Nitroaniline	35.72	37.87	106	20 - 125
2-Nitroaniline	35.72	38.93	109	50 - 115
Nitrobenzene	35.72	33.39	93.5	45 - 110
4-Nitrophenol	71.45	23.93	33.5	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31026	Laboratory ID:	2J31026-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	71.45	72.80	102	40 - 115
N-Nitrosodiphenylamine	35.72	32.16	90.0	50 - 110
N-Nitroso-di-n-propylamine	35.72	34.94	97.8	35 - 130
Pentachlorophenol	71.45	70.26	98.3	40 - 115
Phenanthrene	35.72	37.43	105	50 - 115
Phenol	71.45	21.74	30.4	0 - 115
Pyrene	35.72	38.80	109	50 - 130
2,4,6-Trichlorophenol	71.45	65.87	92.2	50 - 115
2,4,5-Trichlorophenol	71.45	69.54	97.3	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	35.72	35.12	98.3	7.08	30	45 - 110
Acenaphthylene	**35.72**	**37.80**	**106 ***	**6.53**	**30**	**50 - 105**
Acetophenone	35.72	39.76	111	8.86	30	45 - 130
Anthracene	**35.72**	**39.86**	**112 ***	**4.38**	**30**	**55 - 110**
Atrazine	35.72	41.91	117	5.85	30	40 - 150
Benzaldehyde	35.72	42.55	119	7.94	30	40 - 125
Benzidine	35.72	100 U	0		30	0 - 110
Benzo(a)anthracene	**35.72**	**40.37**	**113 ***	**5.53**	**30**	**55 - 110**
Benzo(a)pyrene	**35.72**	**40.12**	**112 ***	**5.37**	**30**	**55 - 110**
Benzo(b)fluoranthene	35.72	42.52	119	6.90	30	45 - 120
Benzo(g,h,i)perylene	35.72	40.60	114	6.07	30	40 - 125
Benzoic acid	71.45	16.92	23.7	42.5 *	30	0 - 125
Benzo(k)fluoranthene	35.72	36.28	102	4.57	30	45 - 125
1,1-Biphenyl	35.72	41.74	117	7.51	30	45 - 135
4-Bromophenyl-phenylether	35.72	40.07	112	4.50	30	50 - 115
Butylbenzylphthalate	**35.72**	**44.79**	**125 ***	**4.55**	**30**	**45 - 115**
Caprolactam	35.72	8.283	23.2	1.93	30	5 - 110
Carbazole	**35.72**	**42.30**	**118 ***	**4.65**	**30**	**50 - 115**

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31026	Laboratory ID:	2J31026-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	71.45	67.42	94.4	4.45	30	45 - 110
4-Chloroaniline	35.72	35.10	98.3	4.22	30	15 - 110
Bis(2-chloroethoxy)methane	**35.72**	**39.04**	**109 ***	**4.79**	**30**	**45 - 105**
Bis(2-chloroethyl)ether	35.72	38.44	108	8.07	30	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	36.23	101	4.12	30	25 - 130
2-Chloronaphthalene	35.72	35.54	99.5	6.73	30	50 - 105
2-Chlorophenol	71.45	64.92	90.9	6.95	30	35 - 105
4-Chlorophenyl phenyl ether	35.72	37.42	105	7.80	30	50 - 110
Chrysene	**35.72**	**40.32**	**113 ***	**3.89**	**30**	**55 - 110**
Dibenz(a,h)anthracene	35.72	41.19	115	6.40	30	40 - 125
Dibenzofuran	**35.72**	**38.10**	**107 ***	**6.84**	**30**	**55 - 105**
Di-n-butylphthalate	**35.72**	**42.24**	**118 ***	**4.90**	**30**	**55 - 115**
3,3'-Dichlorobenzidine	**35.72**	**40.87**	**114 ***	**6.22**	**30**	**20 - 110**
2,4-Dichlorophenol	71.45	71.33	99.8	6.11	30	50 - 105
Diethylphthalate	35.72	37.77	106	7.25	30	40 - 120
2,4-Dimethylphenol	71.45	65.32	91.4	6.54	30	30 - 110
Dimethyl phthalate	35.72	39.73	111	8.19	30	25 - 125
4,6-Dinitro-2-methylphenol	71.45	86.19	121	7.82	30	40 - 130
2,4-Dinitrophenol	71.45	85.43	120	16.7	30	15 - 140
2,4-Dinitrotoluene	35.72	40.46	113	5.81	30	50 - 120
2,6-Dinitrotoluene	35.72	40.40	113	7.36	30	50 - 115
Di-n-octylphthalate	35.72	45.45	127	6.11	30	35 - 135
1,2-Diphenylhydrazine	35.72	37.68	105	3.28	30	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	44.36	124	5.55	30	40 - 125
Fluoranthene	35.72	41.14	115	5.15	30	55 - 115
Fluorene	35.72	37.72	106	8.36	30	50 - 110
Hexachlorobenzene	35.72	39.24	110	6.21	30	50 - 110
Hexachlorobutadiene	35.72	34.86	97.6	4.84	30	25 - 105
Hexachlorocyclopentadiene	35.72	34.25	95.9	7.84	30	0 - 120
Hexachloroethane	35.72	31.04	86.9	10.4	30	30 - 100

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31026	Laboratory ID:	2J31026-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	35.72	40.20	113	6.96	30	45 - 125
Isophorone	35.72	35.73	100	7.21	30	50 - 110
1-Methylnaphthalene	35.72	34.17	95.7	2.33	30	35 - 115
2-Methylnaphthalene	35.72	34.87	97.6	5.31	30	45 - 105
2-Methylphenol	71.45	55.16	77.2	6.33	30	40 - 110
3-Methylphenol/4-Methylphenol	71.45	49.38	69.1	5.35	30	30 - 110
Naphthalene	**35.72**	**36.07**	**101 ***	**5.68**	**30**	**40 - 100**
4-Nitroaniline	**35.72**	**43.67**	**122 ***	**12.3**	**30**	**35 - 120**
3-Nitroaniline	35.72	40.72	114	7.25	30	20 - 125
2-Nitroaniline	**35.72**	**41.32**	**116 ***	**5.98**	**30**	**50 - 115**
Nitrobenzene	35.72	34.97	97.9	4.64	30	45 - 110
4-Nitrophenol	71.45	25.46	35.6	6.21	30	0 - 125
2-Nitrophenol	71.45	80.96	113	10.6	30	40 - 115
N-Nitrosodiphenylamine	35.72	34.06	95.4	5.73	30	50 - 110
N-Nitroso-di-n-propylamine	35.72	37.95	106	8.25	30	35 - 130
Pentachlorophenol	71.45	79.20	111	12.0	30	40 - 115
Phenanthrene	35.72	39.29	110	4.87	30	50 - 115
Phenol	71.45	22.81	31.9	4.79	30	0 - 115
Pyrene	35.72	41.54	116	6.83	30	50 - 130
2,4,6-Trichlorophenol	71.45	73.16	102	10.5	30	50 - 115
2,4,5-Trichlorophenol	71.45	76.36	107	9.35	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	34.28	18.76	54.7	45 - 110
Acenaphthylene	34.28	20.91	61.0	50 - 105
Acetophenone	35.72	23.55	65.9	45 - 130
Anthracene	34.28	21.23	61.9	55 - 110
Atrazine	35.72	23.29	65.2	40 - 150
Benzaldehyde	35.72	25.45	71.3	40 - 125
Benzidine	35.72	18.62	52.1	0 - 110
Benzo(a)anthracene	34.28	22.58	65.9	55 - 110
Benzo(a)pyrene	34.28	22.08	64.4	55 - 110
Benzo(b)fluoranthene	34.28	23.90	69.7	45 - 120
Benzo(g,h,i)perylene	34.28	22.53	65.7	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	34.28	20.77	60.6	45 - 125
1,1-Biphenyl	35.72	22.31	62.5	45 - 135
4-Bromophenyl-phenylether	34.28	21.32	62.2	50 - 115
Butylbenzylphthalate	34.28	24.90	72.6	45 - 115
Caprolactam	35.72	5.699	16.0	5 - 110
Carbazole	35.72	26.17	73.3	50 - 115
4-Chloro-3-methylphenol	70.70	44.72	63.3	45 - 110
4-Chloroaniline	35.72	33.44	93.6	15 - 110
Bis(2-chloroethoxy)methane	34.28	23.88	69.7	45 - 105
Bis(2-chloroethyl)ether	34.28	22.83	66.6	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	22.03	64.2	25 - 130
2-Chloronaphthalene	34.28	19.12	55.8	50 - 105
2-Chlorophenol	70.70	43.95	62.2	35 - 105
4-Chlorophenyl phenyl ether	34.28	20.36	59.4	50 - 110
Chrysene	34.28	22.26	64.9	55 - 110
Dibenz(a,h)anthracene	34.28	22.82	66.6	40 - 125
Dibenzofuran	34.28	20.70	60.4	55 - 105
Di-n-butylphthalate	34.28	24.40	71.2	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	25.17	70.5	20 - 110
2,4-Dichlorophenol	70.70	46.12	65.2	50 - 105
Diethylphthalate	34.28	20.40	59.5	40 - 120
2,4-Dimethylphenol	70.70	40.93	57.9	30 - 110
Dimethyl phthalate	34.28	21.79	63.6	25 - 125
4,6-Dinitro-2-methylphenol	70.70	47.66	67.4	40 - 130
2,4-Dinitrophenol	70.70	39.44	55.8	15 - 140
2,4-Dinitrotoluene	34.28	21.13	61.6	50 - 120
2,6-Dinitrotoluene	34.28	21.67	63.2	50 - 115
Di-n-octylphthalate	34.28	26.68	77.8	35 - 135
1,2-Diphenylhydrazine	35.72	23.52	65.9	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	25.18	73.5	40 - 125
Fluoranthene	34.28	22.75	66.4	55 - 115
Fluorene	34.28	20.13	58.7	50 - 110
Hexachlorobenzene	34.28	20.67	60.3	50 - 110
Hexachlorobutadiene	34.28	16.69	48.7	25 - 105
Hexachlorocyclopentadiene	34.28	15.58	45.4	0 - 120
Hexachloroethane	34.28	15.33	44.7	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	21.52	62.8	45 - 125
Isophorone	34.28	21.52	62.8	50 - 110
1-Methylnaphthalene	35.72	20.36	57.0	35 - 115
2-Methylnaphthalene	34.28	18.41	53.7	45 - 105
2-Methylphenol	70.70	38.92	55.1	40 - 110
3-Methylphenol/4-Methylphenol	70.70	34.06	48.2	30 - 110
Naphthalene	34.28	20.25	59.1	40 - 100
4-Nitroaniline	35.72	29.50	82.6	35 - 120
3-Nitroaniline	35.72	32.45	90.9	20 - 125
2-Nitroaniline	35.72	25.79	72.2	50 - 115
Nitrobenzene	34.28	20.41	59.5	45 - 110
4-Nitrophenol	70.70	14.40	20.4	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	50.18	71.0	40 - 115
N-Nitrosodiphenylamine	34.28	19.62	57.2	50 - 110
N-Nitroso-di-n-propylamine	34.28	21.46	62.6	35 - 130
Pentachlorophenol	70.70	41.19	58.3	40 - 115
Phenanthrene	34.28	22.16	64.6	50 - 115
Phenol	70.70	16.51	23.4	0 - 115
Pyrene	34.28	22.72	66.3	50 - 130
2,4,6-Trichlorophenol	70.70	41.81	59.1	50 - 115
2,4,5-Trichlorophenol	70.70	47.24	66.8	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J30408 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/30/12 10:30	1,000.00	1.00
GW0880	1210274-03	10/30/12 10:30	1,000.00	1.00
Blank	2J30408-BLK1	10/30/12 10:30	1,000.00	1.00
LCS	2J30408-BS1	10/30/12 10:30	1,000.00	1.00
LCS Dup	2J30408-BSD1	10/30/12 10:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31026 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-01	10/31/12 12:45	1,040.00	1.00
GW0877	1210294-03	10/31/12 12:45	1,020.00	1.00
Blank	2J31026-BLK1	10/31/12 12:45	1,000.00	1.00
LCS	2J31026-BS1	10/31/12 12:45	1,000.00	1.00
LCS Dup	2J31026-BSD1	10/31/12 12:45	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K08004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/08/12 09:35	1,000.00	1.00
Blank	2K08004-BLK1	11/08/12 09:35	1,000.00	1.00
LCS	2K08004-BS1	11/08/12 09:35	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J30408-BLK1 File ID: J30408B1.D

Sampled: Prepared: Analyzed: 10/30/12 13:33

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J30408 Sequence: 2J30509 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UX
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_068

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

Matrix: | Laboratory ID: 2J30408-BLK1 | File ID: J30408B1.D

Sampled: | Prepared: | Analyzed: 10/30/12 13:33

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J30408 | Sequence: 2J30509 | Calibration: 2261001 | Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.02	82.0	50 - 110	
2-Fluorophenol	100.0	32.56	32.6	20 - 110	
Nitrobenzene-d5	50.00	41.97	83.9	40 - 110	
Phenol-d6	100.0	23.54	23.5	0 - 110	
Terphenyl-d14	50.00	47.39	94.8	50 - 135	
2,4,6-Tribromophenol	100.0	64.81	64.8	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J30408-BS1 | File ID: J30408L1.D

Sampled: | Prepared: | Analyzed: 10/30/12 14:01

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J30408 | Sequence: 2J30509 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**33.47**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**36.01**	1.25	2.50	5.00	
98-86-2	Acetophenone	**37.24**	1.25	2.50	5.00	
120-12-7	Anthracene	**37.65**	1.25	2.50	5.00	
1912-24-9	Atrazine	**38.50**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**40.25**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**36.95**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**38.11**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**37.60**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**38.43**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**36.07**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**38.37**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**37.10**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**40.96**	1.25	2.50	5.00	
105-60-2	Caprolactam	**8.681**	1.25	2.50	5.00	X
86-74-8	Carbazole	**40.39**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**65.37**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**34.47**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**38.28**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**36.73**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**36.02**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**33.14**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**61.07**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**34.68**	1.25	2.50	5.00	
218-01-9	Chrysene	**37.07**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**38.92**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**36.46**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**39.93**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**39.06**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**66.53**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**36.30**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**63.27**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**37.43**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**71.70**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**63.42**	8.33	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	**38.81**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**37.63**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**41.53**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J30408-BS1 | File ID: J30408L1.D

Sampled: | Prepared: | Analyzed: 10/30/12 14:01

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J30408 | Sequence: 2J30509 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**36.74**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**41.09**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**38.98**	1.25	2.50	5.00	
86-73-7	Fluorene	**35.10**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**37.00**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**31.36**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**31.92**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**28.68**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**38.11**	1.25	2.50	5.00	
78-59-1	Isophorone	**34.34**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**32.63**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**32.54**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**52.24**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**46.91**	1.25	2.50	5.00	
91-20-3	Naphthalene	**33.33**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**40.61**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**39.01**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**39.68**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**34.34**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**19.26**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**73.93**	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	**32.21**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**36.71**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**69.00**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**37.26**	1.25	2.50	5.00	
108-95-2	Phenol	**21.70**	1.25	2.50	5.00	
129-00-0	Pyrene	**38.38**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**64.89**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**69.64**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	46.24	92.5	50 - 110	
2-Fluorophenol	100.0	49.03	49.0	20 - 110	
Nitrobenzene-d5	50.00	46.11	92.2	40 - 110	
Phenol-d6	100.0	28.72	28.7	0 - 110	
Terphenyl-d14	50.00	49.62	99.2	50 - 135	
2,4,6-Tribromophenol	100.0	99.63	99.6	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J30408-BSD1 File ID: J30408L2.D

Sampled: Prepared: Analyzed: 10/30/12 14:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J30408 Sequence: 2J30509 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**32.01**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**34.53**	1.25	2.50	5.00	
98-86-2	Acetophenone	**34.30**	1.25	2.50	5.00	
120-12-7	Anthracene	**36.33**	1.25	2.50	5.00	
1912-24-9	Atrazine	**36.70**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**37.52**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**33.77**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**36.10**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**36.35**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**37.14**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**34.86**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**37.20**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**36.05**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**37.49**	1.25	2.50	5.00	
105-60-2	Caprolactam	**8.309**	1.25	2.50	5.00	X
86-74-8	Carbazole	**38.72**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**64.52**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**35.16**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**36.89**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**33.64**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**33.28**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**32.08**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**57.79**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**34.11**	1.25	2.50	5.00	
218-01-9	Chrysene	**33.65**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**36.93**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**35.01**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**38.81**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**36.07**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**67.04**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**33.74**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**62.03**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**36.08**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**76.34**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**70.90**	8.33	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	**37.11**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**37.48**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**40.02**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J30408-BSD1 | File ID: J30408L2.D

Sampled: | Prepared: | Analyzed: 10/30/12 14:28

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J30408 | Sequence: 2J30509 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**34.98**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**37.31**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**37.91**	1.25	2.50	5.00	
86-73-7	Fluorene	**33.68**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**35.71**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**31.82**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**29.74**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**26.86**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**36.78**	1.25	2.50	5.00	
78-59-1	Isophorone	**33.76**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**32.40**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**32.11**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**49.49**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**45.40**	1.25	2.50	5.00	
91-20-3	Naphthalene	**33.21**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**40.33**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**37.33**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**38.64**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**33.24**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**21.32**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**74.57**	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	**31.36**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**33.37**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**72.75**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**35.98**	1.25	2.50	5.00	
108-95-2	Phenol	**21.12**	1.25	2.50	5.00	
129-00-0	Pyrene	**34.52**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**65.91**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**70.71**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.60	89.2	50 - 110	
2-Fluorophenol	100.0	48.51	48.5	20 - 110	
Nitrobenzene-d5	50.00	45.11	90.2	40 - 110	
Phenol-d6	100.0	28.41	28.4	0 - 110	
Terphenyl-d14	50.00	45.55	91.1	50 - 135	
2,4,6-Tribromophenol	100.0	97.88	97.9	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J31026-BLK1 File ID: J31026B1.D

Sampled: Prepared: Analyzed: 10/31/12 15:06

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	UQ
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	UQ
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	UQ
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	UQ
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UQ
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	UQ
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	UQ
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	UQ
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	UQ
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	UQ
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	UQ
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UXQ
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UX
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_068

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

Matrix: Laboratory ID: 2J31026-BLK1 File ID: J31026B1.D

Sampled: Prepared: Analyzed: 10/31/12 15:06

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.48	91.0	50 - 110	
2-Fluorophenol	100.0	38.76	38.8	20 - 110	
Nitrobenzene-d5	50.00	44.63	89.3	40 - 110	
Phenol-d6	100.0	25.89	25.9	0 - 110	
Terphenyl-d14	50.00	54.56	109	50 - 135	
2,4,6-Tribromophenol	100.0	86.95	86.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J31026-BS1 | File ID: J31026L1.D

Sampled: | Prepared: | Analyzed: 10/31/12 15:34

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J31026 | Sequence: 2K30609 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**32.72**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**35.41**	1.25	2.50	5.00	
98-86-2	Acetophenone	**36.39**	1.25	2.50	5.00	
120-12-7	Anthracene	**38.15**	1.25	2.50	5.00	
1912-24-9	Atrazine	**39.52**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**39.30**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**38.20**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**38.02**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**39.69**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**38.21**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**34.66**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**38.72**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**38.30**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**42.80**	1.25	2.50	5.00	
105-60-2	Caprolactam	**8.124**	1.25	2.50	5.00	X
86-74-8	Carbazole	**40.38**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**64.48**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**33.65**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**37.22**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**35.46**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**34.77**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**33.23**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**60.56**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**34.61**	1.25	2.50	5.00	
218-01-9	Chrysene	**38.78**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**38.64**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**35.58**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**40.22**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**38.40**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**67.10**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**35.13**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**61.19**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**36.60**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**79.70**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**72.23**	8.33	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	**38.18**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**37.53**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**42.75**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J31026-BS1 | File ID: J31026L1.D

Sampled: | Prepared: | Analyzed: 10/31/12 15:34

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J31026 | Sequence: 2K30609 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**36.46**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**41.97**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**39.08**	1.25	2.50	5.00	
86-73-7	Fluorene	**34.69**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**36.88**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**33.21**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**31.67**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**27.97**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**37.50**	1.25	2.50	5.00	
78-59-1	Isophorone	**33.24**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**33.39**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**33.06**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**51.78**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**46.81**	1.25	2.50	5.00	
91-20-3	Naphthalene	**34.08**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**38.62**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**37.87**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**38.93**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**33.39**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**23.93**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**72.80**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**32.16**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**34.94**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**70.26**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**37.43**	1.25	2.50	5.00	
108-95-2	Phenol	**21.74**	1.25	2.50	5.00	
129-00-0	Pyrene	**38.80**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**65.87**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**69.54**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.37	90.7	50 - 110	
2-Fluorophenol	100.0	49.64	49.6	20 - 110	
Nitrobenzene-d5	50.00	45.61	91.2	40 - 110	
Phenol-d6	100.0	31.36	31.4	0 - 110	
Terphenyl-d14	50.00	56.00	112	50 - 135	
2,4,6-Tribromophenol	100.0	108.1	108	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2J31026-BSD1 File ID: J31026L2.D

Sampled: Prepared: Analyzed: 10/31/12 16:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 2J31026 Sequence: 2K30609 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**35.12**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**37.80**	1.25	2.50	5.00	
98-86-2	Acetophenone	**39.76**	1.25	2.50	5.00	
120-12-7	Anthracene	**39.86**	1.25	2.50	5.00	
1912-24-9	Atrazine	**41.91**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**42.55**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**40.37**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**40.12**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**42.52**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**40.60**	1.25	2.50	5.00	
65-85-0	Benzoic acid	**16.92**	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	**36.28**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**41.74**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**40.07**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**44.79**	1.25	2.50	5.00	
105-60-2	Caprolactam	**8.283**	1.25	2.50	5.00	X
86-74-8	Carbazole	**42.30**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**67.42**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**35.10**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**39.04**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**38.44**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**36.23**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**35.54**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**64.92**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**37.42**	1.25	2.50	5.00	
218-01-9	Chrysene	**40.32**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**41.19**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**38.10**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**42.24**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**40.87**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**71.33**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**37.77**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**65.32**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**39.73**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**86.19**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**85.43**	8.33	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	**40.46**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**40.40**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**45.45**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2J31026-BSD1 | File ID: J31026L2.D

Sampled: | Prepared: | Analyzed: 10/31/12 16:01

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2J31026 | Sequence: 2K30609 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**37.68**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**44.36**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**41.14**	1.25	2.50	5.00	
86-73-7	Fluorene	**37.72**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**39.24**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**34.86**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**34.25**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**31.04**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**40.20**	1.25	2.50	5.00	
78-59-1	Isophorone	**35.73**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**34.17**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**34.87**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**55.16**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**49.38**	1.25	2.50	5.00	
91-20-3	Naphthalene	**36.07**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**43.67**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**40.72**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**41.32**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**34.97**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**25.46**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**80.96**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**34.06**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**37.95**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**79.20**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**39.29**	1.25	2.50	5.00	
108-95-2	Phenol	**22.81**	1.25	2.50	5.00	
129-00-0	Pyrene	**41.54**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**73.16**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**76.36**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	48.48	97.0	50 - 110	
2-Fluorophenol	100.0	52.10	52.1	20 - 110	
Nitrobenzene-d5	50.00	47.08	94.2	40 - 110	
Phenol-d6	100.0	32.28	32.3	0 - 110	
Terphenyl-d14	50.00	58.71	117	50 - 135	
2,4,6-Tribromophenol	100.0	116.8	117	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2K08004-BLK1 File ID: K08004B1.D

Sampled: Prepared: Analyzed: 11/14/12 13:07

Solids: Preparation: EXT_3510 Dilution:

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

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2K08004-BLK1 File ID: K08004B1.D

Sampled: Prepared: Analyzed: 11/14/12 13:07

Solids: Preparation: EXT_3510 Dilution:

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

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.87	91.7	50 - 110	
2-Fluorophenol	100.0	44.62	44.6	20 - 110	
Nitrobenzene-d5	50.00	46.57	93.1	40 - 110	
Phenol-d6	100.0	25.22	25.2	0 - 110	
Terphenyl-d14	50.00	53.80	108	50 - 135	X
2,4,6-Tribromophenol	100.0	101.4	101	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Matrix: Laboratory ID: 2K08004-BS1 File ID: K08004L1.D

Sampled: Prepared: Analyzed: 11/14/12 13:34

Solids: Preparation: EXT_3510 Dilution:

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

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**18.76**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**20.91**	1.25	2.50	5.00	
98-86-2	Acetophenone	**23.55**	1.25	2.50	5.00	
120-12-7	Anthracene	**21.23**	1.25	2.50	5.00	
1912-24-9	Atrazine	**23.29**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**25.45**	1.25	2.50	5.00	
92-87-5	Benzidine	**18.62**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**22.58**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**22.08**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**23.90**	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	**22.53**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**20.77**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**22.31**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**21.32**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**24.90**	1.25	2.50	5.00	
105-60-2	Caprolactam	**5.699**	1.25	2.50	5.00	X
86-74-8	Carbazole	**26.17**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**44.72**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**33.44**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**23.88**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**22.83**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**22.03**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**19.12**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**43.95**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**20.36**	1.25	2.50	5.00	
218-01-9	Chrysene	**22.26**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**22.82**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**20.70**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**24.40**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**25.17**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**46.12**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**20.40**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**40.93**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**21.79**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**47.66**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**39.44**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**21.13**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**21.67**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**26.68**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_068

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

Matrix: | Laboratory ID: 2K08004-BS1 | File ID: K08004L1.D

Sampled: | Prepared: | Analyzed: 11/14/12 13:34

Solids: | Preparation: EXT_3510 | Dilution:

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

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**23.52**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**25.18**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**22.75**	1.25	2.50	5.00	
86-73-7	Fluorene	**20.13**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**20.67**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**16.69**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**15.58**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**15.33**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**21.52**	1.25	2.50	5.00	
78-59-1	Isophorone	**21.52**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**20.36**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**18.41**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**38.92**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**34.06**	1.25	2.50	5.00	
91-20-3	Naphthalene	**20.25**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**29.50**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**32.45**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**25.79**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**20.41**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**14.40**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**50.18**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**19.62**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**21.46**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**41.19**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**22.16**	1.25	2.50	5.00	
108-95-2	Phenol	**16.51**	1.25	2.50	5.00	
129-00-0	Pyrene	**22.72**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**41.81**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**47.24**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	30.40	60.8	50 - 110	
2-Fluorophenol	100.0	37.68	37.7	20 - 110	
Nitrobenzene-d5	50.00	30.67	61.3	40 - 110	
Phenol-d6	100.0	21.73	21.7	0 - 110	
Terphenyl-d14	50.00	37.99	76.0	50 - 135	X
2,4,6-Tribromophenol	100.0	66.91	66.9	40 - 125	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/11/12
Instrument ID:	MS-BNA3	Injection Time:	10:14
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.9	PASS
68	Less than 2% of 69	0.427	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.427	PASS
127	40 - 60% of 198	48.7	PASS
197	Less than 1% of 198	0.112	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.32	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 200% of 198	2.18	PASS
441	0.001 - 100% of 443	80	PASS
442	40 - 200% of 198	79.1	PASS
443	17 - 23% of 442	18.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/12/12
Instrument ID:	MS-BNA3	Injection Time:	15:25
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	38.9	PASS
68	Less than 2% of 69	1.04	PASS
69	Less than 200% of 198	42.9	PASS
70	Less than 2% of 69	0.427	PASS
127	40 - 60% of 198	48.8	PASS
197	Less than 1% of 198	0.0543	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	22.3	PASS
365	1 - 200% of 198	2.57	PASS
441	0.001 - 100% of 443	68.9	PASS
442	40 - 200% of 198	78.2	PASS
443	17 - 23% of 442	20.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/30/12
Instrument ID:	MS-BNA3	Injection Time:	12:14
Sequence:	2J30509	Lab Sample ID:	2J30509-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.9	PASS
68	Less than 2% of 69	0.67	PASS
69	Less than 200% of 198	41.4	PASS
70	Less than 2% of 69	0.801	PASS
127	40 - 60% of 198	46.9	PASS
197	Less than 1% of 198	0.0186	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.19	PASS
275	10 - 30% of 198	25	PASS
365	1 - 200% of 198	2.18	PASS
441	0.001 - 100% of 443	69.9	PASS
442	40 - 200% of 198	80.6	PASS
443	17 - 23% of 442	21.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/31/12
Instrument ID:	MS-BNA3	Injection Time:	13:46
Sequence:	2K30609	Lab Sample ID:	2K30609-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.5	PASS
68	Less than 2% of 69	0.853	PASS
69	Less than 200% of 198	42.1	PASS
70	Less than 2% of 69	1.29	PASS
127	40 - 60% of 198	47.1	PASS
197	Less than 1% of 198	0.03	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.68	PASS
275	10 - 30% of 198	26.2	PASS
365	1 - 200% of 198	2.29	PASS
441	0.001 - 100% of 443	72.4	PASS
442	40 - 200% of 198	84	PASS
443	17 - 23% of 442	19.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/14/12
Instrument ID:	MS-BNA3	Injection Time:	11:48
Sequence:	2K32014	Lab Sample ID:	2K32014-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	35.4	PASS
70	Less than 2% of 69	0.731	PASS
127	40 - 60% of 198	45.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.03	PASS
275	10 - 30% of 198	23.8	PASS
365	1 - 200% of 198	2.15	PASS
441	0.001 - 100% of 443	66.1	PASS
442	40 - 200% of 198	60	PASS
443	17 - 23% of 442	20.6	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I25803	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2I25803-TUN1	SEQ-TUN1.D	09/11/12 10:14
Cal Standard	2I25803-CAL1	SEQ-CAL1.D	09/11/12 10:38
Cal Standard	2I25803-CAL2	SEQ-CAL2.D	09/11/12 11:06
Cal Standard	2I25803-CAL3	SEQ-CAL3.D	09/11/12 11:34
Cal Standard	2I25803-CAL4	SEQ-CAL4.D	09/11/12 12:03
Cal Standard	2I25803-CAL5	SEQ-CAL5.D	09/11/12 12:31
Cal Standard	2I25803-CAL6	SEQ-CAL6.D	09/11/12 12:59
Cal Standard	2I25803-CAL7	SEQ-CAL7.D	09/11/12 13:27
Cal Standard	2I25803-CAL8	SEQ-CAL8.D	09/11/12 13:55
Cal Standard	2I25803-CAL9	SEQ-CAL9.D	09/11/12 14:23
Cal Standard	2I25803-CALA	SEQ-CALA.D	09/11/12 14:51
Cal Standard	2I25803-CALB	SEQ-CALB.D	09/11/12 15:20
Cal Standard	2I25803-CALC	SEQ-CALC.D	09/11/12 15:48
Cal Standard	2I25803-CALD	SEQ-CALD.D	09/11/12 16:16
Cal Standard	2I25803-CALE	SEQ-CALE.D	09/11/12 16:44
Cal Standard	2I25803-CALF	SEQ-CALF.D	09/11/12 17:11
Cal Standard	2I25803-CALG	SEQ-CALG.D	09/11/12 17:40
Initial Cal Check	2I25803-ICV1	SEQ-ICV1.D	09/11/12 18:08
Initial Cal Check	2I25803-ICV2	SEQ-ICV2.D	09/11/12 18:36
MS Tune	2I25803-TUN2	SEQ-TUN2.D	09/12/12 15:25
Initial Cal Check	2I25803-ICV3	SEQ-ICV3.D	09/12/12 15:49

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30509	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J30509-TUN1	SEQ-TUN1.D	10/30/12 12:14
Calibration Check	2J30509-CCV1	SEQ-CCV1.D	10/30/12 12:37
Calibration Check	2J30509-CCV2	SEQ-CCV2.D	10/30/12 13:05
Blank	2J30408-BLK1	J30408B1.D	10/30/12 13:33
LCS	2J30408-BS1	J30408L1.D	10/30/12 14:01
LCS Dup	2J30408-BSD1	J30408L2.D	10/30/12 14:28
GW0879	1210274-01	1027401.D	10/30/12 16:19
GW0880	1210274-03	1027403.D	10/30/12 16:47

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30609	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K30609-TUN1	SEQ-TUN1.D	10/31/12 13:46
Calibration Check	2K30609-CCV1	SEQ-CCV1.D	10/31/12 14:10
Calibration Check	2K30609-CCV2	SEQ-CCV2.D	10/31/12 14:38
Blank	2J31026-BLK1	J31026B1.D	10/31/12 15:06
LCS	2J31026-BS1	J31026L1.D	10/31/12 15:34
LCS Dup	2J31026-BSD1	J31026L2.D	10/31/12 16:01
GW0876	1210294-01	1029401.D	10/31/12 16:29
GW0877	1210294-03	1029403.D	10/31/12 16:56

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32014-TUN1	SEQ-TUN1.D	11/14/12 11:48
Calibration Check	2K32014-CCV1	SEQ-CCV1.D	11/14/12 12:11
Calibration Check	2K32014-CCV2	SEQ-CCV2.D	11/14/12 12:39
Blank	2K08004-BLK1	K08004B1.D	11/14/12 13:07
LCS	2K08004-BS1	K08004L1.D	11/14/12 13:34
GW0878	1211075-02	1107502.D	11/14/12 21:49

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30509	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2J30509-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/30/12 12:37			
1,4-Dichlorobenzene-d4	591045	5.532	692783	5.592	85	50 - 200	-0.0600	+/-0.50	
Naphthalene-d8	2113342	7.208	2409624	7.268	88	50 - 200	-0.0600	+/-0.50	
Acenaphthene-d10	1361564	9.444	1479598	9.504	92	50 - 200	-0.0600	+/-0.50	
Phenanthrene-d10	2179477	11.245	2454205	11.305	89	50 - 200	-0.0600	+/-0.50	
Chrysene-d12	2169425	14.557	2419622	14.71	90	50 - 200	-0.1530	+/-0.50	
Perylene-d12	2315795	16.658	2394332	16.987	97	50 - 200	-0.3290	+/-0.50	
Calibration Check (2J30509-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/30/12 13:05			
1,4-Dichlorobenzene-d4	572035	5.528	591045	5.532	97	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	2045919	7.205	2113342	7.208	97	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1309636	9.451	1361564	9.444	96	50 - 200	0.0070	+/-0.50	
Phenanthrene-d10	2065517	11.242	2179477	11.245	95	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	2127130	14.543	2169425	14.557	98	50 - 200	-0.0140	+/-0.50	
Perylene-d12	2260152	16.655	2315795	16.658	98	50 - 200	-0.0030	+/-0.50	
Blank (2J30408-BLK1)			Lab File ID: J30408B1.D			Analyzed: 10/30/12 13:33			
1,4-Dichlorobenzene-d4	583716	5.529	591045	5.532	99	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2109920	7.206	2113342	7.208	100	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1378029	9.442	1361564	9.444	101	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2146634	11.243	2179477	11.245	98	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	2233982	14.544	2169425	14.557	103	50 - 200	-0.0130	+/-0.50	
Perylene-d12	2322282	16.656	2315795	16.658	100	50 - 200	-0.0020	+/-0.50	
LCS (2J30408-BS1)			Lab File ID: J30408L1.D			Analyzed: 10/30/12 14:01			
1,4-Dichlorobenzene-d4	596109	5.53	591045	5.532	101	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2128392	7.206	2113342	7.208	101	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1332089	9.452	1361564	9.444	98	50 - 200	0.0080	+/-0.50	
Phenanthrene-d10	2140459	11.253	2179477	11.245	98	50 - 200	0.0080	+/-0.50	
Chrysene-d12	2231228	14.555	2169425	14.557	103	50 - 200	-0.0020	+/-0.50	
Perylene-d12	2293137	16.656	2315795	16.658	99	50 - 200	-0.0020	+/-0.50	
LCS Dup (2J30408-BSD1)			Lab File ID: J30408L2.D			Analyzed: 10/30/12 14:28			
1,4-Dichlorobenzene-d4	628364	5.529	591045	5.532	106	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2121974	7.206	2113342	7.208	100	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1350064	9.452	1361564	9.444	99	50 - 200	0.0080	+/-0.50	
Phenanthrene-d10	2167217	11.253	2179477	11.245	99	50 - 200	0.0080	+/-0.50	
Chrysene-d12	2396910	14.554	2169425	14.557	110	50 - 200	-0.0030	+/-0.50	
Perylene-d12	2359116	16.655	2315795	16.658	102	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30509	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0879 (1210274-01)			Lab File ID: 1027401.D			Analyzed: 10/30/12 16:19			
1,4-Dichlorobenzene-d4	593679	5.529	591045	5.532	100	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2060864	7.206	2113342	7.208	98	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1314507	9.442	1361564	9.444	97	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2087685	11.243	2179477	11.245	96	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	2306243	14.544	2169425	14.557	106	50 - 200	-0.0130	+/-0.50	
Perylene-d12	2270715	16.656	2315795	16.658	98	50 - 200	-0.0020	+/-0.50	
GW0880 (1210274-03)			Lab File ID: 1027403.D			Analyzed: 10/30/12 16:47			
1,4-Dichlorobenzene-d4	598048	5.532	591045	5.532	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2085962	7.209	2113342	7.208	99	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1346769	9.444	1361564	9.444	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2099903	11.245	2179477	11.245	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2308591	14.547	2169425	14.557	106	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2312598	16.648	2315795	16.658	100	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30609	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K30609-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/31/12 14:10			
1,4-Dichlorobenzene-d4	609171	5.529	692783	5.592	88	50 - 200	-0.0630	+/-0.50	
Naphthalene-d8	2138724	7.206	2409624	7.268	89	50 - 200	-0.0620	+/-0.50	
Acenaphthene-d10	1357907	9.452	1479598	9.504	92	50 - 200	-0.0520	+/-0.50	
Phenanthrene-d10	2156668	11.242	2454205	11.305	88	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	2133260	14.554	2419622	14.71	88	50 - 200	-0.1560	+/-0.50	
Perylene-d12	2191442	16.655	2394332	16.987	92	50 - 200	-0.3320	+/-0.50	
Calibration Check (2K30609-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/31/12 14:38			
1,4-Dichlorobenzene-d4	580452	5.532	609171	5.529	95	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2138524	7.208	2138724	7.206	100	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1322495	9.444	1357907	9.452	97	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2094057	11.245	2156668	11.242	97	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2092284	14.547	2133260	14.554	98	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2175662	16.648	2191442	16.655	99	50 - 200	-0.0070	+/-0.50	
Blank (2J31026-BLK1)			Lab File ID: J31026B1.D			Analyzed: 10/31/12 15:06			
1,4-Dichlorobenzene-d4	532278	5.529	609171	5.529	87	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1862228	7.206	2138724	7.206	87	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1180792	9.442	1357907	9.452	87	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1855280	11.243	2156668	11.242	86	50 - 200	0.0010	+/-0.50	
Chrysene-d12	1884687	14.544	2133260	14.554	88	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1893124	16.645	2191442	16.655	86	50 - 200	-0.0100	+/-0.50	
LCS (2J31026-BS1)			Lab File ID: J31026L1.D			Analyzed: 10/31/12 15:34			
1,4-Dichlorobenzene-d4	600104	5.529	609171	5.529	99	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2093383	7.206	2138724	7.206	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1311501	9.441	1357907	9.452	97	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	2046644	11.242	2156668	11.242	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2058864	14.544	2133260	14.554	97	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2130471	16.645	2191442	16.655	97	50 - 200	-0.0100	+/-0.50	
LCS Dup (2J31026-BSD1)			Lab File ID: J31026L2.D			Analyzed: 10/31/12 16:01			
1,4-Dichlorobenzene-d4	569985	5.529	609171	5.529	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2010147	7.206	2138724	7.206	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1239910	9.442	1357907	9.452	91	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1997427	11.242	2156668	11.242	93	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1992150	14.544	2133260	14.554	93	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2042896	16.645	2191442	16.655	93	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30609	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0876 (1210294-01)			Lab File ID: 1029401.D			Analyzed: 10/31/12 16:29			
1,4-Dichlorobenzene-d4	608869	5.53	609171	5.529	100	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2131120	7.207	2138724	7.206	100	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1363875	9.442	1357907	9.452	100	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	2146361	11.243	2156668	11.242	100	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2142590	14.545	2133260	14.554	100	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2234667	16.646	2191442	16.655	102	50 - 200	-0.0090	+/-0.50	
GW0877 (1210294-03)			Lab File ID: 1029403.D			Analyzed: 10/31/12 16:56			
1,4-Dichlorobenzene-d4	631135	5.53	609171	5.529	104	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2236649	7.206	2138724	7.206	105	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1424790	9.442	1357907	9.452	105	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	2201774	11.243	2156668	11.242	102	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2250921	14.545	2133260	14.554	106	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2341506	16.646	2191442	16.655	107	50 - 200	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32014-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/14/12 12:11			
1,4-Dichlorobenzene-d4	622930	5.529	692783	5.592	90	50 - 200	-0.0630	+/-0.50	
Naphthalene-d8	2206565	7.196	2409624	7.268	92	50 - 200	-0.0720	+/-0.50	
Acenaphthene-d10	1371087	9.442	1479598	9.504	93	50 - 200	-0.0620	+/-0.50	
Phenanthrene-d10	2150822	11.242	2454205	11.305	88	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	2134604	14.544	2419622	14.71	88	50 - 200	-0.1660	+/-0.50	
Perylene-d12	2119920	16.645	2394332	16.987	89	50 - 200	-0.3420	+/-0.50	
Calibration Check (2K32014-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/14/12 12:39			
1,4-Dichlorobenzene-d4	643306	5.521	622930	5.529	103	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2243083	7.198	2206565	7.196	102	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1411814	9.444	1371087	9.442	103	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2207816	11.245	2150822	11.242	103	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2212251	14.536	2134604	14.544	104	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2195092	16.647	2119920	16.645	104	50 - 200	0.0020	+/-0.50	
Blank (2K08004-BLK1)			Lab File ID: K08004B1.D			Analyzed: 11/14/12 13:07			
1,4-Dichlorobenzene-d4	602668	5.529	622930	5.529	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2097609	7.195	2206565	7.196	95	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1315063	9.441	1371087	9.442	96	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2046502	11.242	2150822	11.242	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2069467	14.544	2134604	14.544	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	2048535	16.645	2119920	16.645	97	50 - 200	0.0000	+/-0.50	
LCS (2K08004-BS1)			Lab File ID: K08004L1.D			Analyzed: 11/14/12 13:34			
1,4-Dichlorobenzene-d4	636818	5.522	622930	5.529	102	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2203804	7.199	2206565	7.196	100	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1417085	9.445	1371087	9.442	103	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2182427	11.245	2150822	11.242	101	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2187242	14.537	2134604	14.544	102	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2142341	16.648	2119920	16.645	101	50 - 200	0.0030	+/-0.50	
GW0878 (1211075-02)			Lab File ID: 1107502.D			Analyzed: 11/14/12 21:49			
1,4-Dichlorobenzene-d4	601298	5.521	622930	5.529	97	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2130165	7.198	2206565	7.196	97	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1345897	9.444	1371087	9.442	98	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2101877	11.245	2150822	11.242	98	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2097169	14.536	2134604	14.544	98	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2064056	16.637	2119920	16.645	97	50 - 200	-0.0080	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.226402	10	1.172004	20	1.216724	40	1.106133	50	1.105635	60	1.066451
Acenaphthylene	5	1.882626	10	1.825223	20	1.853268	40	1.686654	50	1.630586	60	1.58258
Acetophenone												
Aniline	5	2.075085	10	2.083071	20	2.115921	40	2.012055	50	1.981178	60	1.922491
Anthracene	5	1.190117	10	1.216677	20	1.210592	40	1.133693	50	1.074923	60	1.027613
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.07808	10	1.158464	20	1.187972	40	1.125607	50	1.111216	60	1.080801
Benzo(a)pyrene	5	0.8969984	10	0.988024	20	1.053969	40	1.082485	50	1.050188	60	1.047536
Benzo(b)fluoranthene	5	0.9192774	10	0.9995984	20	1.027394	40	1.163507	50	1.151156	60	1.102624
Benzo(g,h,i)perylene	5	0.8810196	10	0.9354534	20	1.023945	40	1.041762	50	1.031788	60	1.025219
Benzoic acid	5	0.1800138	10	0.1971305	20	0.2320922	40	0.2667048	50	0.3038777	60	0.2934733
Benzo(k)fluoranthene	5	1.385345	10	1.389508	20	1.50509	40	1.294027	50	1.247302	60	1.255501
Benzyl alcohol	5	0.7723651	10	0.8400763	20	0.84085	40	0.8585047	50	0.855408	60	0.8444593
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2285879	10	0.242289	20	0.2441512	40	0.2392219	50	0.2372267	60	0.2395644
Butylbenzylphthalate	5	0.4630096	10	0.4944857	20	0.5607301	40	0.557858	50	0.5631426	60	0.5528675
Caprolactam												
Carbazole	5	1.067151	10	1.166965	20	1.142299	40	1.080385	50	1.01809	60	0.9924129
4-Chloro-3-methylphenol	5	0.2949249	10	0.3240161	20	0.3402999	40	0.3358677	50	0.3333448	60	0.3279835
4-Chloroaniline	5	0.437418	10	0.4487067	20	0.4701531	40	0.4455991	50	0.4474384	60	0.4368809
Bis(2-chloroethoxy)methane	5	0.4529439	10	0.460763	20	0.4579347	40	0.437325	50	0.43609	60	0.4299759
Bis(2-chloroethyl)ether	5	1.311057	10	1.320356	20	1.353769	40	1.299644	50	1.303123	60	1.255375
2,2'-Oxybis-1-chloropropane	5	1.751597	10	1.7475	20	1.739639	40	1.678201	50	1.686332	60	1.618641
2-Chloronaphthalene	5	1.195427	10	1.175982	20	1.194056	40	1.110827	50	1.115289	60	1.070192
2-Chlorophenol	5	1.202517	10	1.275122	20	1.326919	40	1.300237	50	1.289146	60	1.268001
4-Chlorophenyl phenyl ether	5	0.6742086	10	0.6954678	20	0.6890185	40	0.6402671	50	0.6432798	60	0.6252312
Chrysene	5	1.169698	10	1.134234	20	1.187301	40	1.098305	50	1.054946	60	1.023574
Dibenz(a,h)anthracene	5	0.7929059	10	0.9127398	20	0.9778044	40	1.040796	50	1.012641	60	1.013459
Dibenzofuran	5	1.703833	10	1.693413	20	1.704482	40	1.540782	50	1.529322	60	1.472516

INITIAL CALIBRATION DATA

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2261001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 9/11/12 10:38 9/11/12 17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.16861	10	1.255953	20	1.283272	40	1.181135	50	1.106647	60	1.06418
1,4-Dichlorobenzene	5	1.531421	10	1.56121	20	1.527423	40	1.451014	50	1.445896	60	1.432695
1,3-Dichlorobenzene	5	1.475221	10	1.490131	20	1.527514	40	1.450766	50	1.468528	60	1.394971
1,2-Dichlorobenzene	5	1.455679	10	1.443407	20	1.456504	40	1.4098	50	1.385694	60	1.338072
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2847428	10	0.3263219	20	0.3328921	40	0.3242484	50	0.3321999	60	0.3215921
Diethylphthalate	5	1.323041	10	1.286795	20	1.368087	40	1.251514	50	1.243205	60	1.211569
2,4-Dimethylphenol	5	0.3723077	10	0.3922829	20	0.4013375	40	0.390409	50	0.388078	60	0.3762622
Dimethyl phthalate	5	1.373422	10	1.353026	20	1.386701	40	1.27275	50	1.233596	60	1.187798
4,6-Dinitro-2-methylphenol	5	7.614394E-02	10	0.1096655	20	0.130206	40	0.1508675	50	0.1529725	60	0.1565992
2,4-Dinitrophenol	5	7.088052E-02	10	0.1093294	20	0.1395075	40	0.1679181	50	0.1812304	60	0.190222
2,4-Dinitrotoluene	5	0.3531728	10	0.3912608	20	0.43451	40	0.4257123	50	0.4261383	60	0.426781
2,6-Dinitrotoluene	5	0.2714151	10	0.2923165	20	0.3163528	40	0.3062322	50	0.3212079	60	0.3121858
Di-n-octylphthalate	5	0.8771769	10	1.020225	20	1.123468	40	1.220057	50	1.208407	60	1.209285
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8301083	10	0.867185	20	0.861467	40	0.8127303	50	0.7719215	60	0.7712792
Bis(2-ethylhexyl)phthalate	5	0.5881362	10	0.6483224	20	0.7324606	40	0.7333481	50	0.7419646	60	0.7344114
Fluoranthene	5	1.23635	10	1.317053	20	1.322223	40	1.210618	50	1.137281	60	1.112443
Fluorene	5	1.465575	10	1.402744	20	1.471988	40	1.327424	50	1.326116	60	1.285392
2-Fluorobiphenyl	5	1.406801	10	1.339106	20	1.373728	40	1.274645	50	1.266637	60	1.228683
2-Fluorophenol	10	1.159714	20	1.147427	40	1.17776	80	1.150615	100	1.131493	120	1.125717
Hexachlorobenzene	5	0.2463841	10	0.2654048	20	0.2691727	40	0.260909	50	0.2592312	60	0.2550784
Hexachlorobutadiene	5	0.2055813	10	0.2041694	20	0.2054767	40	0.2018028	50	0.2080746	60	0.2058022
Hexachlorocyclopentadiene	5	0.2916181	10	0.3162971	20	0.3534771	40	0.3570826	50	0.3593493	60	0.3660123
Hexachloroethane	5	0.6211759	10	0.6184263	20	0.6267446	40	0.6115714	50	0.6020682	60	0.6042834
Indeno(1,2,3-cd)pyrene	5	0.9842869	10	1.100186	20	1.231231	40	1.249436	50	1.252622	60	1.241693
Isophorone	5	0.7053235	10	0.7342949	20	0.7372863	40	0.7150188	50	0.700254	60	0.6863517
1-Methylnaphthalene	5	0.6263254	10	0.6219691	20	0.6167648	40	0.6025289	50	0.5932049	60	0.5754876
2-Methylnaphthalene	5	0.6487649	10	0.6439735	20	0.6616897	40	0.619805	50	0.6168634	60	0.5906787
2-Methylphenol	5	1.13215	10	1.166193	20	1.214549	40	1.183468	50	1.190711	60	1.14973

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
3-Methylphenol/4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
Naphthalene	5	1.131168	10	1.115217	20	1.097102	40	1.018	50	0.9838111	60	0.9336806
4-Nitroaniline	5	0.310375	10	0.2880078	20	0.3319512	40	0.3278091	50	0.3394978	60	0.3319657
3-Nitroaniline	5	0.3061045	10	0.3165566	20	0.3311253	40	0.3337432	50	0.3324556	60	0.333826
2-Nitroaniline	5	0.3122476	10	0.31289	20	0.3414956	40	0.3500366	50	0.3516678	60	0.3465091
Nitrobenzene	5	0.4067955	10	0.405922	20	0.4226794	40	0.4097124	50	0.4155971	60	0.4022004
Nitrobenzene-d5	5	0.3901635	10	0.4008388	20	0.4181021	40	0.4098124	50	0.4068753	60	0.4013554
4-Nitrophenol	5	0.2205213	10	0.2238418	20	0.2704735	40	0.2810258	50	0.2788603	60	0.2746765
2-Nitrophenol	5	0.1572246	10	0.170622	20	0.1900949	40	0.1941729	50	0.1979488	60	0.1972528
N-Nitrosodimethylamine	5	0.6561451	10	0.6489775	20	0.6975004	40	0.6585053	50	0.6588495	60	0.6399517
N-Nitrosodiphenylamine	5	0.7117719	10	0.7279842	20	0.7319408	40	0.6857475	50	0.6689627	60	0.6710496
N-Nitroso-di-n-propylamine	5	1.013651	10	1.014837	20	1.036074	40	0.9774363	50	0.9701911	60	0.9510779
Pentachlorophenol	5	0.1242903	10	0.1472987	20	0.1675192	40	0.1807789	50	0.1772911	60	0.1753101
Phenanthrene	5	1.243048	10	1.256443	20	1.204927	40	1.111894	50	1.046238	60	1.020124
Phenol	5	1.788617	10	1.724966	20	1.754811	40	1.756593	50	1.70602	60	1.681391
Phenol-d6	10	1.56702	20	1.578964	40	1.575631	80	1.495776	100	1.472042	120	1.433011
Pyrene	5	1.269569	10	1.335888	20	1.347438	40	1.215283	50	1.176284	60	1.135994
Pyridine	5	1.450894	10	1.508679	20	1.500758	40	1.402303	50	1.421701	60	1.439583
Terphenyl-d14	5	0.759045	10	0.7914832	20	0.8267835	40	0.7856392	50	0.7550846	60	0.7440656
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3129583	10	0.3205266	20	0.3493419	40	0.3448924	50	0.3561204	60	0.3409846
2,4,6-Tribromophenol	10	9.746889E-02	20	0.1098797	40	0.1147914	80	0.1197327	100	0.11624	120	0.116617
1,2,4-Trichlorobenzene	5	0.3494616	10	0.3476154	20	0.3551252	40	0.3384588	50	0.3410857	60	0.3336289
2,4,6-Trichlorophenol	5	0.3633886	10	0.3835832	20	0.4015645	40	0.3975579	50	0.3943937	60	0.396121
2,4,5-Trichlorophenol	5	0.3479752	10	0.3593403	20	0.4048246	40	0.4025023	50	0.4053154	60	0.4080477

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.007038	100	0.9448967								
Acenaphthylene	80	1.463699	100	1.354083								
Acetophenone					5	1.854627	10	1.791064	20	1.814119	40	1.786505
Aniline	80	1.836509	100	1.778359								
Anthracene	80	0.9395351	100	0.8619493								
Atrazine					5	0.2149468	10	0.2213603	20	0.225859	40	0.2406622
Benzaldehyde					5	1.101007	10	1.076328	20	1.07395	40	0.9905509
Benzidine					5	0.5982221	10	0.6233508	20	0.6721449	40	0.6816705
Benzo(a)anthracene	80	1.039064	100	0.988222								
Benzo(a)pyrene	80	1.057477	100	0.9849124								
Benzo(b)fluoranthene	80	1.000322	100	1.137211								
Benzo(g,h,i)perylene	80	1.010113	100	1.00717								
Benzoic acid	80	0.288002	100	0.3073683								
Benzo(k)fluoranthene	80	1.288017	100	1.039958								
Benzyl alcohol	80	0.8399113	100	0.8291029								
1,1-Biphenyl					5	1.444924	10	1.462762	20	1.465034	40	1.400757
4-Bromophenyl-phenylether	80	0.2322959	100	0.2267755								
Butylbenzylphthalate	80	0.5450172	100	0.5332066								
Caprolactam					5	9.508992E-02	10	0.0970182	20	0.1014958	40	0.1071126
Carbazole	80	0.9117642	100	0.8603283								
4-Chloro-3-methylphenol	80	0.3239361	100	0.3128581								
4-Chloroaniline	80	0.4181819	100	0.4057045								
Bis(2-chloroethoxy)methane	80	0.412871	100	0.401461								
Bis(2-chloroethyl)ether	80	1.234201	100	1.196301								
2,2'-Oxybis-1-chloropropane	80	1.559356	100	1.522435								
2-Chloronaphthalene	80	1.037875	100	0.9697123								
2-Chlorophenol	80	1.250053	100	1.221566								
4-Chlorophenyl phenyl ether	80	0.6050546	100	0.582263								
Chrysene	80	0.9773309	100	0.9316359								
Dibenz(a,h)anthracene	80	1.013161	100	0.9812686								
Dibenzofuran	80	1.350958	100	1.254226								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	0.9816543	100	0.8971291								
1,4-Dichlorobenzene	80	1.376729	100	1.309893								
1,3-Dichlorobenzene	80	1.370178	100	1.332432								
1,2-Dichlorobenzene	80	1.299695	100	1.272024								
3,3'-Dichlorobenzidine					5	0.3543587	10	0.3740634	20	0.3969158	40	0.4162336
2,6-Dichlorophenol					5	0.3029182	10	0.3037802	20	0.3026235	40	0.3162123
2,4-Dichlorophenol	80	0.3128693	100	0.3030876								
Diethylphthalate	80	1.176199	100	1.110356								
2,4-Dimethylphenol	80	0.3615218	100	0.3601468								
Dimethyl phthalate	80	1.147566	100	1.101382								
4,6-Dinitro-2-methylphenol	80	0.1611426	100	0.1632566								
2,4-Dinitrophenol	80	0.2034171	100	0.2067659								
2,4-Dinitrotoluene	80	0.4250739	100	0.4213723								
2,6-Dinitrotoluene	80	0.3060406	100	0.3029055								
Di-n-octylphthalate	80	1.19253	100	1.130569								
1,4-Dioxane					5	0.5681997	10	0.5720167	20	0.5405075	40	0.5215231
1,2-Diphenylhydrazine	80	0.711338	100	0.6708871								
Bis(2-ethylhexyl)phthalate	80	0.7201792	100	0.6965867								
Fluoranthene	80	1.023074	100	0.9552043								
Fluorene	80	1.192825	100	1.10791								
2-Fluorobiphenyl	80	1.168444	100	1.100862								
2-Fluorophenol	160	1.054541	200	1.011147								
Hexachlorobenzene	80	0.2494867	100	0.2407232								
Hexachlorobutadiene	80	0.1926689	100	0.1935308								
Hexachlorocyclopentadiene	80	0.3720966	100	0.360964								
Hexachloroethane	80	0.587194	100	0.5769922								
Indeno(1,2,3-cd)pyrene	80	1.219234	100	1.186028								
Isophorone	80	0.6458218	100	0.6339611								
1-Methylnaphthalene	80	0.5292253	100	0.5167777								
2-Methylnaphthalene	80	0.5632596	100	0.5391497								
2-Methylphenol	80	1.122389	100	1.116647								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.197636	100	1.178114								
4-Methylphenol	80	1.197636	100	1.178114								
3-Methylphenol/4-Methylphenol	80	1.197636	100	1.178114								
Naphthalene	80	0.8568929	100	0.8020783								
4-Nitroaniline	80	0.3344389	100	0.3257398								
3-Nitroaniline	80	0.3329237	100	0.3339491								
2-Nitroaniline	80	0.3445397	100	0.3353103								
Nitrobenzene	80	0.3882844	100	0.3827503								
Nitrobenzene-d5	80	0.3854518	100	0.3790163								
4-Nitrophenol	80	0.2853949	100	0.2769577								
2-Nitrophenol	80	0.1988147	100	0.1958569								
N-Nitrosodimethylamine	80	0.6300438	100	0.6199096								
N-Nitrosodiphenylamine	80	0.6354454	100	0.5938058								
N-Nitroso-di-n-propylamine	80	0.9339268	100	0.919134								
Pentachlorophenol	80	0.1795239	100	0.1780552								
Phenanthrene	80	0.9246607	100	0.8510275								
Phenol	80	1.621348	100	1.575871								
Phenol-d6	160	1.363933	200	1.326291								
Pyrene	80	1.029161	100	0.9464214								
Pyridine	80	1.417841	100	1.409563								
Terphenyl-d14	80	0.7003809	100	0.6796219								
1,2,4,5-Tetrachlorobenzene					5	0.3642537	10	0.3739162	20	0.3587545	40	0.3586331
2,3,4,6-Tetrachlorophenol	80	0.3514703	100	0.348575								
2,4,6-Tribromophenol	160	0.114871	200	0.1137257								
1,2,4-Trichlorobenzene	80	0.3197429	100	0.3182462								
2,4,6-Trichlorophenol	80	0.3928045	100	0.3853417								
2,4,5-Trichlorophenol	80	0.3978263	100	0.3895499								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.76145	60	1.801983	80	1.673292	100	1.611182				
Aniline												
Anthracene												
Atrazine	50	0.2359451	60	0.2357328	80	0.2298759	100	0.2247727				
Benzaldehyde	50	0.9748365	60	0.9989734	80	0.8898613	100	0.8739512				
Benzidine	50	0.6776385	60	0.680287	80	0.6439769	100	0.6296377				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.364835	60	1.327666	80	1.236441	100	1.162958				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1109058	60	0.1124372	80	0.1099913	100	0.1099271				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.416014	60	0.4278231	80	0.412885	100	0.3940041				
2,6-Dichlorophenol	50	0.3200868	60	0.3120857	80	0.3076012	100	0.2959819				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5110823	60	0.5407586	80	0.5060359	100	0.5102403				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.354329	60	0.3540016	80	0.3422855	100	0.3257612				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.10566	8.941982	9.541375	5.759679E-02			CCC (20)	
Acenaphthylene	1.65984	11.47408	9.309875	5.149462E-02			CCC (20)	
Acetophenone	1.761778	4.548734	6.15075	0.029436			CCC (20)	
Aniline	1.975584	6.156998	5.21875	8.840861E-03			CCC (20)	
Anthracene	1.081887	12.14042	11.38375	4.965419E-02			CCC (20)	
Atrazine	0.2286444	3.743847	11.014	2.800227E-02			CCC (20)	
Benzaldehyde	0.9974323	8.489099	5.032875	0.0350803			CCC (20)	
Benzidine	0.650866	4.862256	12.96125	7.03444E-03			CCC (20)	
Benzo(a)anthracene	1.096178	5.859442	14.68275	0.0361667			CCC (20)	
Benzo(a)pyrene	1.020199	5.91785	16.89375	4.367248E-02			CCC (20)	
Benzo(b)fluoranthene	1.062636	8.32804	16.3765	4.687998E-02			CCC (20)	
Benzo(g,h,i)perylene	0.9945587	5.662765	19.13462	6.322926E-02			CCC (20)	
Benzoic acid	0.2585828	19.18735	7.002875	0.5416775	0.9968332		CCC (20)	
Benzo(k)fluoranthene	1.300594	10.47456	16.41512	4.428847E-02			CCC (20)	
Benzyl alcohol	0.8350847	3.232369	5.801	8.006347E-02			CCC (20)	
1,1-Biphenyl	1.358172	8.14203	8.777	3.752441E-02			CCC (20)	
4-Bromophenyl-phenylether	0.2362641	2.694889	10.759	4.506461E-02			CCC (20)	
Butylbenzylphthalate	0.5337897	6.795952	13.95313	1.982893E-02			CCC (20)	
Caprolactam	0.1054972	6.369373	7.769375	0.1428007			CCC (20)	
Carbazole	1.029924	10.35465	11.592	4.012654E-02			CCC (20)	
4-Chloro-3-methylphenol	0.3241539	4.484259	8.02375	2.422232E-02			CCC (20)	
4-Chloroaniline	0.4387603	4.499309	7.395	6.407021E-02			CCC (20)	
Bis(2-chloroethoxy)methane	0.4361706	4.861304	6.99	5.257221E-02			CCC (20)	
Bis(2-chloroethyl)ether	1.284228	4.005468	5.29525	0.1014556			CCC (20)	
2,2'-Oxybis-1-chloropropane	1.662963	5.286827	6.008	7.846643E-02			CCC (20)	
2-Chloronaphthalene	1.10867	7.247886	8.782	5.276285E-02			CCC (20)	
2-Chlorophenol	1.266695	3.235977	5.356	8.851782E-02			CCC (20)	
4-Chlorophenyl phenyl ether	0.6443488	6.230529	10.16638	5.729773E-03			CCC (20)	
Chrysene	1.072128	8.541599	14.74763	3.641467E-02			CCC (20)	
Dibenz(a,h)anthracene	0.968097	8.317117	18.71425	4.210554E-02			CCC (20)	
Dibenzofuran	1.531191	11.0083	9.734	4.736714E-02			CCC (20)	
Di-n-butylphthalate	1.117323	11.87776	12.081	2.243919E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.454535	5.818776	5.61225	0.013037			CCC (20)	
1,3-Dichlorobenzene	1.438718	4.610703	5.53975	1.248566E-02			CCC (20)	
1,2-Dichlorobenzene	1.382609	5.210718	5.860625	0.0201332			CCC (20)	
3,3'-Dichlorobenzidine	0.3990372	6.177841	14.68175	2.892872E-02			CCC (20)	
2,6-Dichlorophenol	0.3076612	2.595722	7.40325	2.436204E-02			15	
2,4-Dichlorophenol	0.3172443	5.18606	7.101375	4.761375E-02			CCC (20)	
Diethylphthalate	1.246346	6.574405	10.103	6.670748E-02			CCC (20)	
2,4-Dimethylphenol	0.3802932	3.960326	6.8645	1.752451E-02			CCC (20)	
Dimethyl phthalate	1.25703	8.5773	9.232125	5.107294E-02			CCC (20)	
4,6-Dinitro-2-methylphenol	0.1376067	22.31038	10.28925	8.292123E-02	0.9995831		CCC (20)	*
2,4-Dinitrophenol	0.1586589	30.52087	9.602375	5.674957E-02	0.9965146		CCC (20)	*
2,4-Dinitrotoluene	0.4130027	6.633871	9.796125	4.871438E-02			CCC (20)	
2,6-Dinitrotoluene	0.3035821	5.167856	9.315	4.886391E-02			CCC (20)	
Di-n-octylphthalate	1.122715	10.64814	15.776	1.209158E-02			CCC (20)	
1,4-Dioxane	0.5337955	4.869741	2.414375	7.061711E-02			15	
1,2-Diphenylhydrazine	0.7871146	8.877235	10.355	4.530772E-02			CCC (20)	
Bis(2-ethylhexyl)phthalate	0.6994262	7.777001	14.8135	7.521677E-03			CCC (20)	
Fluoranthene	1.164281	11.37119	12.78475	7.212182E-03			CCC (20)	
Fluorene	1.322497	9.629889	10.15838	0.047539			CCC (20)	
2-Fluorobiphenyl	1.269863	8.146411	8.668	5.397084E-02			CCC (20)	
2-Fluorophenol	1.119802	5.107841	4.039	1.607769E-02			CCC (20)	
Hexachlorobenzene	0.2557988	3.811211	10.93875	0.0483882			CCC (20)	
Hexachlorobutadiene	0.2021383	2.894676	7.537375	1.656083E-02			CCC (20)	
Hexachlorocyclopentadiene	0.3471121	8.069592	8.46875	1.743379E-02			CCC (20)	
Hexachloroethane	0.606057	2.830271	6.25375	5.98945E-03			CCC (20)	
Indeno(1,2,3-cd)pyrene	1.18309	7.999515	18.68575	3.410259E-02			CCC (20)	
Isophorone	0.694789	5.463283	6.678375	9.487201E-03			CCC (20)	
1-Methylnaphthalene	0.5852855	7.165809	8.311	5.573635E-02			CCC (20)	
2-Methylnaphthalene	0.6105231	7.071532	8.168625	0.0152489			CCC (20)	
2-Methylphenol	1.15948	3.037164	5.977	7.574059E-02			CCC (20)	
3-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			CCC (20)	
4-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			15	
Naphthalene	0.9922437	12.28808	7.288875	1.449498E-02			CCC (20)	
4-Nitroaniline	0.3237232	5.187175	10.24375	9.360202E-02			CCC (20)	
3-Nitroaniline	0.3275855	3.191586	9.4845	6.968371E-02			CCC (20)	
2-Nitroaniline	0.3368371	4.692985	8.965625	2.313171E-02			CCC (20)	
Nitrobenzene	0.4042427	3.277603	6.37825	1.726574E-02			CCC (20)	
Nitrobenzene-d5	0.3989519	3.300556	6.357375	2.012303E-02			CCC (20)	
4-Nitrophenol	0.263969	9.91531	9.692875	0.0512375			CCC (20)	
2-Nitrophenol	0.1877485	8.18829	6.8025	0.0109992			CCC (20)	
N-Nitrosodimethylamine	0.6512354	3.595621	2.705	0.1357375			CCC (20)	
N-Nitrosodiphenylamine	0.6783385	6.967624	10.324	4.608146E-02			CCC (20)	
N-Nitroso-di-n-propylamine	0.977041	4.270567	6.194375	7.506511E-02			CCC (20)	
Pentachlorophenol	0.1662584	12.1407	11.15975	0.0122687			CCC (20)	
Phenanthrene	1.082295	13.7748	11.32925	4.510804E-02			CCC (20)	
Phenol	1.701202	4.253285	5.197	0.128711			CCC (20)	
Phenol-d6	1.476584	6.577862	5.18125	0.1022497			CCC (20)	
Pyrene	1.182005	12.0001	13.058	3.821264E-02			CCC (20)	
Pyridine	1.443915	2.816602	2.7155	0.1280989			CCC (20)	
Terphenyl-d14	0.755263	6.374122	13.26762	4.197651E-02			CCC (20)	
1,2,4,5-Tetrachlorobenzene	0.3539919	4.108493	8.43825	1.427966E-02			CCC (20)	
2,3,4,6-Tetrachlorophenol	0.3406087	4.554587	9.94875	1.854361E-02			CCC (20)	
2,4,6-Tribromophenol	0.1129158	6.053375	10.48725	7.380264E-03			CCC (20)	
1,2,4-Trichlorobenzene	0.3379206	3.985092	7.2165	8.724103E-03			CCC (20)	
2,4,6-Trichlorophenol	0.3893444	3.105104	8.572375	2.137935E-02			CCC (20)	
2,4,5-Trichlorophenol	0.3894227	5.904797	8.613625	1.934255E-02			CCC (20)	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	58.60	1.10566	1.295903	0.9	17.2	20
Acenaphthylene	A	50.00	54.94	1.65984	1.823847	0.9	9.9	20
Anthracene	A	50.00	53.20	1.081887	1.151058	0.7	6.4	20
Benzo(a)anthracene	A	50.00	55.59	1.096178	1.218701	0.8	11.2	20
Benzo(a)pyrene	A	50.00	53.88	1.020199	1.099446	0.7	7.8	20
Benzo(b)fluoranthene	A	50.00	53.05	1.062636	1.127461	0.7	6.1	20
Benzo(g,h,i)perylene	A	50.00	54.39	0.9945587	1.081915	0.5	8.8	20
Benzoic acid	L	50.00	48.69	0.2585828	0.2811545	0.01	-2.6	20
Benzo(k)fluoranthene	A	50.00	53.54	1.300594	1.392682	0.7	7.1	20
4-Bromophenyl-phenylether	A	50.00	53.33	0.2362641	0.2519767	0.1	6.7	20
Butylbenzylphthalate	A	50.00	55.26	0.5337897	0.5899795	0.01	10.5	20
Carbazole	A	50.00	53.21	1.029924	1.095962	0.01	6.4	20
4-Chloro-3-methylphenol	A	50.00	54.72	0.3241539	0.3547434	0.2	9.4	20
4-Chloroaniline	A	50.00	52.81	0.4387603	0.4634271	0.01	5.6	20
Bis(2-chloroethoxy)methane	A	50.00	53.38	0.4361706	0.4656965	0.3	6.8	20
Bis(2-chloroethyl)ether	A	50.00	56.03	1.284228	1.439207	0.7	12.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	55.74	1.662963	1.853836	0.01	11.5	20
2-Chloronaphthalene	A	50.00	51.24	1.10867	1.136069	0.8	2.5	20
2-Chlorophenol	A	50.00	58.06	1.266695	1.470975	0.8	16.1	20
4-Chlorophenyl phenyl ether	A	50.00	51.29	0.6443488	0.6609697	0.4	2.6	20
Chrysene	A	50.00	56.09	1.072128	1.202645	0.7	12.2	20
Dibenz(a,h)anthracene	A	50.00	55.01	0.968097	1.065122	0.4	10.0	20
Dibenzofuran	A	50.00	53.47	1.531191	1.637537	0.8	6.9	20
Di-n-butylphthalate	A	50.00	51.42	1.117323	1.148948	0.01	2.8	20
2,4-Dichlorophenol	A	50.00	54.14	0.3172443	0.3435181	0.2	8.3	20
Diethylphthalate	A	50.00	50.34	1.246346	1.254886	0.01	0.7	20
2,4-Dimethylphenol	A	50.00	56.41	0.3802932	0.4290272	0.2	12.8	20
Dimethyl phthalate	A	50.00	49.52	1.25703	1.244959	0.01	-1.0	20
4,6-Dinitro-2-methylphenol	L	50.00	53.68	0.1376067	0.1681106	0.01	7.4	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	49.63	0.1586589	0.1883481	0.05	-0.7	20
2,4-Dinitrotoluene	A	50.00	52.00	0.4130027	0.4295454	0.2	4.0	20
2,6-Dinitrotoluene	A	50.00	53.10	0.3035821	0.3224102	0.2	6.2	20
Di-n-octylphthalate	A	50.00	55.98	1.122715	1.25702	0.01	12.0	20
1,2-Diphenylhydrazine	A	50.00	54.43	0.7871146	0.856912	0.01	8.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.88	0.6994262	0.7957128	0.01	13.8	20
Fluoranthene	A	50.00	53.36	1.164281	1.242525	0.6	6.7	20
Fluorene	A	50.00	51.97	1.322497	1.3745	0.9	3.9	20
Hexachlorobenzene	A	50.00	53.88	0.2557988	0.2756724	0.1	7.8	20
Hexachlorobutadiene	A	50.00	59.84	0.2021383	0.2419049	0.01	19.7	20
Hexachlorocyclopentadiene	A	50.00	55.42	0.3471121	0.3847598	0.05	10.8	20
Hexachloroethane	A	50.00	54.49	0.606057	0.6604722	0.3	9.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.73	1.18309	1.295127	0.5	9.5	20
Isophorone	A	50.00	52.71	0.694789	0.7324747	0.4	5.4	20
1-Methylnaphthalene	A	50.00	53.43	0.5852855	0.6253864	0.01	6.9	20
2-Methylnaphthalene	A	50.00	52.57	0.6105231	0.6419021	0.4	5.1	20
2-Methylphenol	A	50.00	58.16	1.15948	1.348604	0.7	16.3	20
3-Methylphenol/4-Methylphenol	A	50.00	58.18	1.219104	1.418582		16.4	20
Naphthalene	A	50.00	57.00	0.9922437	1.131112	0.7	14.0	20
4-Nitroaniline	A	50.00	53.79	0.3237232	0.348242	0.01	7.6	20
3-Nitroaniline	A	50.00	53.70	0.3275855	0.3518224	0.01	7.4	20
2-Nitroaniline	A	50.00	58.40	0.3368371	0.3934389	0.01	16.8	20
Nitrobenzene	A	50.00	52.69	0.4042427	0.4260277	0.2	5.4	20
4-Nitrophenol	A	50.00	54.75	0.263969	0.2890525	0.05	9.5	20
2-Nitrophenol	A	50.00	54.00	0.1877485	0.2027527	0.1	8.0	20
N-Nitrosodiphenylamine	A	50.00	53.61	0.6783385	0.7272844	0.01	7.2	20
N-Nitroso-di-n-propylamine	A	50.00	55.58	0.977041	1.086017	0.5	11.2	20
Phenanthrene	A	50.00	53.75	1.082295	1.163421	0.7	7.5	20
Phenol	A	50.00	56.31	1.701202	1.915796	0.8	12.6	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pyrene	A	50.00	54.56	1.182005	1.289905	0.6	9.1	20
2,4,6-Trichlorophenol	A	50.00	53.74	0.3893444	0.4184625	0.2	7.5	20
2,4,5-Trichlorophenol	A	50.00	58.16	0.3894227	0.4529662	0.2	16.3	20
2-Fluorobiphenyl	A	50.00	53.53	1.269863	1.359507	0.01	7.1	20
2-Fluorophenol	A	100.0	122.0	1.119802	1.365786	0.01	22.0	20 *
Nitrobenzene-d5	A	50.00	55.18	0.3989519	0.4402934	0.01	10.4	20
Phenol-d6	A	100.0	113.3	1.476584	1.673269	0.01	13.3	20
Terphenyl-d14	A	50.00	59.66	0.755263	0.9012434	0.01	19.3	20
2,4,6-Tribromophenol	A	100.0	109.1	0.1129158	0.1231592	0.01	9.1	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV2	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	52.13	1.761778	1.836985	0.01	4.3	20
Atrazine	A	50.00	47.98	0.2286444	0.2194247	0.01	-4.0	20
Benzaldehyde	A	50.00	52.76	0.9974323	1.052489	0.01	5.5	20
Benzidine	A	50.00	56.11	0.650866	0.7304139	0.01	12.2	20
1,1-Biphenyl	A	50.00	51.62	1.358172	1.402158	0.01	3.2	20
Caprolactam	A	50.00	55.44	0.1054972	0.1169682	0.01	10.9	20
3,3'-Dichlorobenzidine	A	50.00	54.50	0.3990372	0.4349478	0.01	9.0	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/12/12
Lab Sample ID:	2I25803-ICV3	Injection Time:	15:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	46.01	0.1662584	0.1529758	0.05	-8.0	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2J30509	Injection Date:	10/30/12
Lab Sample ID:	2J30509-CCV1	Injection Time:	12:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	47.66	1.10566	1.05384	0.9	-4.7	20
Acenaphthylene	A	50.00	48.22	1.65984	1.600627	0.9	-3.6	20
Anthracene	A	50.00	51.04	1.081887	1.104404	0.7	2.1	20
Benzo(a)anthracene	A	50.00	52.46	1.096178	1.150181	0.8	4.9	20
Benzo(a)pyrene	A	50.00	52.10	1.020199	1.063049	0.7	4.2	20
Benzo(b)fluoranthene	A	50.00	50.35	1.062636	1.070062	0.7	0.7	20
Benzo(g,h,i)perylene	A	50.00	53.36	0.9945587	1.061304	0.5	6.7	20
Benzoic acid	L	50.00	56.85	0.2585828	0.3324759	0.01	13.7	20
Benzo(k)fluoranthene	A	50.00	50.71	1.300594	1.318998	0.7	1.4	20
4-Bromophenyl-phenylether	A	50.00	50.30	0.2362641	0.2376713	0.1	0.6	20
Butylbenzylphthalate	A	50.00	54.78	0.5337897	0.5847913	0.01	9.6	20
Carbazole	A	50.00	52.33	1.029924	1.077982	0.01	4.7	20
4-Chloro-3-methylphenol	A	50.00	53.47	0.3241539	0.3466396	0.2	6.9	20
4-Chloroaniline	A	50.00	52.64	0.4387603	0.4618993	0.01	5.3	20
Bis(2-chloroethoxy)methane	A	50.00	50.84	0.4361706	0.4434989	0.3	1.7	20
Bis(2-chloroethyl)ether	A	50.00	53.93	1.284228	1.385155	0.7	7.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.70	1.662963	1.752883	0.01	5.4	20
2-Chloronaphthalene	A	50.00	47.71	1.10867	1.057809	0.8	-4.6	20
2-Chlorophenol	A	50.00	55.24	1.266695	1.39947	0.8	10.5	20
4-Chlorophenyl phenyl ether	A	50.00	47.88	0.6443488	0.6170051	0.4	-4.2	20
Chrysene	A	50.00	49.52	1.072128	1.06195	0.7	-0.9	20
Dibenz(a,h)anthracene	A	50.00	54.07	0.968097	1.046986	0.4	8.1	20
Dibenzofuran	A	50.00	47.70	1.531191	1.460806	0.8	-4.6	20
Di-n-butylphthalate	A	50.00	50.48	1.117323	1.128153	0.01	1.0	20
2,4-Dichlorophenol	A	50.00	53.31	0.3172443	0.3382631	0.2	6.6	20
Diethylphthalate	A	50.00	47.11	1.246346	1.174308	0.01	-5.8	20
2,4-Dimethylphenol	A	50.00	51.19	0.3802932	0.3893643	0.2	2.4	20
Dimethyl phthalate	A	50.00	48.43	1.25703	1.21754	0.01	-3.1	20
4,6-Dinitro-2-methylphenol	L	50.00	57.18	0.1376067	0.1799162	0.01	14.4	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2J30509	Injection Date:	10/30/12
Lab Sample ID:	2J30509-CCV1	Injection Time:	12:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	61.23	0.1586589	0.238699	0.05	22.5	20 *
2,4-Dinitrotoluene	A	50.00	52.80	0.4130027	0.4361367	0.2	5.6	20
2,6-Dinitrotoluene	A	50.00	53.75	0.3035821	0.3263482	0.2	7.5	20
Di-n-octylphthalate	A	50.00	53.70	1.122715	1.205887	0.01	7.4	20
1,2-Diphenylhydrazine	A	50.00	48.67	0.7871146	0.7661897	0.01	-2.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.46	0.6994262	0.7897267	0.01	12.9	20
Fluoranthene	A	50.00	51.12	1.164281	1.190462	0.6	2.2	20
Fluorene	A	50.00	47.81	1.322497	1.264613	0.9	-4.4	20
Hexachlorobenzene	A	50.00	49.59	0.2557988	0.2537155	0.1	-0.8	20
Hexachlorobutadiene	A	50.00	48.66	0.2021383	0.1967125	0.01	-2.7	20
Hexachlorocyclopentadiene	A	50.00	53.86	0.3471121	0.373947	0.05	7.7	20
Hexachloroethane	A	50.00	51.39	0.606057	0.6229292	0.3	2.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.22	1.18309	1.259346	0.5	6.4	20
Isophorone	A	50.00	51.55	0.694789	0.7162952	0.4	3.1	20
1-Methylnaphthalene	A	50.00	49.95	0.5852855	0.5846857	0.01	-0.1	20
2-Methylnaphthalene	A	50.00	49.93	0.6105231	0.6096304	0.4	-0.1	20
2-Methylphenol	A	50.00	56.61	1.15948	1.312848	0.7	13.2	20
3-Methylphenol/4-Methylphenol	A	50.00	58.22	1.219104	1.41957		16.4	20
Naphthalene	A	50.00	50.56	0.9922437	1.003437	0.7	1.1	20
4-Nitroaniline	A	50.00	55.00	0.3237232	0.3560676	0.01	10.0	20
3-Nitroaniline	A	50.00	53.27	0.3275855	0.3489928	0.01	6.5	20
2-Nitroaniline	A	50.00	50.82	0.3368371	0.3423475	0.01	1.6	20
Nitrobenzene	A	50.00	50.00	0.4042427	0.4042507	0.2	0.002	20
4-Nitrophenol	A	50.00	52.23	0.263969	0.2757494	0.05	4.5	20
2-Nitrophenol	A	50.00	59.36	0.1877485	0.2229103	0.1	18.7	20
N-Nitrosodiphenylamine	A	50.00	50.80	0.6783385	0.6892347	0.01	1.6	20
N-Nitroso-di-n-propylamine	A	50.00	52.12	0.977041	1.01858	0.5	4.3	20
Pentachlorophenol	A	50.00	54.76	0.1662584	0.1821042	0.05	9.5	20
Phenanthrene	A	50.00	48.32	1.082295	1.045827	0.7	-3.4	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2J30509	Injection Date:	10/30/12
Lab Sample ID:	2J30509-CCV1	Injection Time:	12:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	53.96	1.701202	1.836029	0.8	7.9	20
Pyrene	A	50.00	50.98	1.182005	1.205205	0.6	2.0	20
2,4,6-Trichlorophenol	A	50.00	50.34	0.3893444	0.3920192	0.2	0.7	20
2,4,5-Trichlorophenol	A	50.00	51.92	0.3894227	0.4043932	0.2	3.8	20
2-Fluorobiphenyl	A	50.00	49.19	1.269863	1.249333	0.01	-1.6	20
2-Fluorophenol	A	100.0	108.0	1.119802	1.209198	0.01	8.0	20
Nitrobenzene-d5	A	50.00	51.76	0.3989519	0.4130076	0.01	3.5	20
Phenol-d6	A	100.0	106.2	1.476584	1.568489	0.01	6.2	20
Terphenyl-d14	A	50.00	58.32	0.755263	0.8809733	0.01	16.6	20
2,4,6-Tribromophenol	A	100.0	105.6	0.1129158	0.1192192	0.01	5.6	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2J30509	Injection Date:	10/30/12
Lab Sample ID:	2J30509-CCV2	Injection Time:	13:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	50.96	1.761778	1.795493	0.01	1.9	20
Atrazine	A	50.00	52.36	0.2286444	0.2394264	0.01	4.7	20
Benzaldehyde	A	50.00	59.69	0.9974323	1.190808	0.01	19.4	20
Benzidine	A	50.00	67.72	0.650866	0.8815356	0.01	35.4	20 *
1,1-Biphenyl	A	50.00	48.74	1.358172	1.323962	0.01	-2.5	20
Caprolactam	A	50.00	62.00	0.1054972	0.1308251	0.01	24.0	20 *
3,3'-Dichlorobenzidine	A	50.00	60.40	0.3990372	0.4820595	0.01	20.8	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K30609	Injection Date:	10/31/12
Lab Sample ID:	2K30609-CCV1	Injection Time:	14:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.17	1.10566	1.065198	0.9	-3.7	20
Acenaphthylene	A	50.00	48.67	1.65984	1.615601	0.9	-2.7	20
Anthracene	A	50.00	50.79	1.081887	1.0989	0.7	1.6	20
Benzo(a)anthracene	A	50.00	52.66	1.096178	1.154567	0.8	5.3	20
Benzo(a)pyrene	A	50.00	53.39	1.020199	1.089329	0.7	6.8	20
Benzo(b)fluoranthene	A	50.00	52.89	1.062636	1.124096	0.7	5.8	20
Benzo(g,h,i)perylene	A	50.00	53.96	0.9945587	1.073301	0.5	7.9	20
Benzoic acid	L	50.00	55.81	0.2585828	0.3259009	0.01	11.6	20
Benzo(k)fluoranthene	A	50.00	49.12	1.300594	1.277803	0.7	-1.8	20
4-Bromophenyl-phenylether	A	50.00	51.28	0.2362641	0.2422952	0.1	2.6	20
Butylbenzylphthalate	A	50.00	54.94	0.5337897	0.5865205	0.01	9.9	20
Carbazole	A	50.00	51.85	1.029924	1.068128	0.01	3.7	20
4-Chloro-3-methylphenol	A	50.00	53.01	0.3241539	0.3436505	0.2	6.0	20
4-Chloroaniline	A	50.00	52.36	0.4387603	0.4595028	0.01	4.7	20
Bis(2-chloroethoxy)methane	A	50.00	50.96	0.4361706	0.4445765	0.3	1.9	20
Bis(2-chloroethyl)ether	A	50.00	52.79	1.284228	1.355988	0.7	5.6	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.59	1.662963	1.749197	0.01	5.2	20
2-Chloronaphthalene	A	50.00	49.04	1.10867	1.087403	0.8	-1.9	20
2-Chlorophenol	A	50.00	55.18	1.266695	1.397923	0.8	10.4	20
4-Chlorophenyl phenyl ether	A	50.00	48.91	0.6443488	0.6303153	0.4	-2.2	20
Chrysene	A	50.00	49.50	1.072128	1.061381	0.7	-1.0	20
Dibenz(a,h)anthracene	A	50.00	54.73	0.968097	1.059649	0.4	9.5	20
Dibenzofuran	A	50.00	48.56	1.531191	1.487068	0.8	-2.9	20
Di-n-butylphthalate	A	50.00	51.29	1.117323	1.146216	0.01	2.6	20
2,4-Dichlorophenol	A	50.00	52.94	0.3172443	0.3358866	0.2	5.9	20
Diethylphthalate	A	50.00	47.49	1.246346	1.183858	0.01	-5.0	20
2,4-Dimethylphenol	A	50.00	50.88	0.3802932	0.3870315	0.2	1.8	20
Dimethyl phthalate	A	50.00	48.67	1.25703	1.223635	0.01	-2.7	20
4,6-Dinitro-2-methylphenol	L	50.00	59.40	0.1376067	0.1874121	0.01	18.8	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K30609	Injection Date:	10/31/12
Lab Sample ID:	2K30609-CCV1	Injection Time:	14:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	L	50.00	60.70	0.1586589	0.236392	0.05	21.4	20	*
2,4-Dinitrotoluene	A	50.00	52.65	0.4130027	0.4349011	0.2	5.3	20	
2,6-Dinitrotoluene	A	50.00	54.09	0.3035821	0.3284125	0.2	8.2	20	
Di-n-octylphthalate	A	50.00	56.76	1.122715	1.274548	0.01	13.5	20	
1,2-Diphenylhydrazine	A	50.00	49.33	0.7871146	0.7765817	0.01	-1.3	20	
Bis(2-ethylhexyl)phthalate	A	50.00	55.61	0.6994262	0.7778716	0.01	11.2	20	
Fluoranthene	A	50.00	51.37	1.164281	1.196194	0.6	2.7	20	
Fluorene	A	50.00	48.05	1.322497	1.270872	0.9	-3.9	20	
Hexachlorobenzene	A	50.00	51.21	0.2557988	0.2619819	0.1	2.4	20	
Hexachlorobutadiene	A	50.00	50.24	0.2021383	0.2031002	0.01	0.5	20	
Hexachlorocyclopentadiene	A	50.00	55.24	0.3471121	0.3834654	0.05	10.5	20	
Hexachloroethane	A	50.00	49.52	0.606057	0.6002164	0.3	-1.0	20	
Indeno(1,2,3-cd)pyrene	A	50.00	53.13	1.18309	1.257229	0.5	6.3	20	
Isophorone	A	50.00	50.69	0.694789	0.7043418	0.4	1.4	20	
1-Methylnaphthalene	A	50.00	50.22	0.5852855	0.5879285	0.01	0.5	20	
2-Methylnaphthalene	A	50.00	50.30	0.6105231	0.6141434	0.4	0.6	20	
2-Methylphenol	A	50.00	55.49	1.15948	1.286751	0.7	11.0	20	
3-Methylphenol/4-Methylphenol	A	50.00	56.78	1.219104	1.384334		13.6	20	
Naphthalene	A	50.00	50.78	0.9922437	1.007819	0.7	1.6	20	
4-Nitroaniline	A	50.00	55.83	0.3237232	0.3614734	0.01	11.7	20	
3-Nitroaniline	A	50.00	53.62	0.3275855	0.3512759	0.01	7.2	20	
2-Nitroaniline	A	50.00	51.04	0.3368371	0.3438227	0.01	2.1	20	
Nitrobenzene	A	50.00	49.74	0.4042427	0.4021587	0.2	-0.5	20	
4-Nitrophenol	A	50.00	51.07	0.263969	0.2696314	0.05	2.1	20	
2-Nitrophenol	A	50.00	60.92	0.1877485	0.2287532	0.1	21.8	20	*
N-Nitrosodiphenylamine	A	50.00	51.74	0.6783385	0.7019844	0.01	3.5	20	
N-Nitroso-di-n-propylamine	A	50.00	50.89	0.977041	0.9944479	0.5	1.8	20	
Pentachlorophenol	A	50.00	53.83	0.1662584	0.1789857	0.05	7.7	20	
Phenanthrene	A	50.00	49.69	1.082295	1.075588	0.7	-0.6	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K30609	Injection Date:	10/31/12
Lab Sample ID:	2K30609-CCV1	Injection Time:	14:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	53.19	1.701202	1.809745	0.8	6.4	20
Pyrene	A	50.00	51.46	1.182005	1.216541	0.6	2.9	20
2,4,6-Trichlorophenol	A	50.00	51.94	0.3893444	0.4044907	0.2	3.9	20
2,4,5-Trichlorophenol	A	50.00	51.76	0.3894227	0.4031752	0.2	3.5	20
2-Fluorobiphenyl	A	50.00	49.67	1.269863	1.261543	0.01	-0.7	20
2-Fluorophenol	A	100.0	106.0	1.119802	1.187561	0.01	6.1	20
Nitrobenzene-d5	A	50.00	51.65	0.3989519	0.412113	0.01	3.3	20
Phenol-d6	A	100.0	105.2	1.476584	1.553258	0.01	5.2	20
Terphenyl-d14	A	50.00	58.58	0.755263	0.8848718	0.01	17.2	20
2,4,6-Tribromophenol	A	100.0	105.9	0.1129158	0.1195394	0.01	5.9	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K30609	Injection Date:	10/31/12
Lab Sample ID:	2K30609-CCV2	Injection Time:	14:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	51.63	1.761778	1.819204	0.01	3.3	20
Atrazine	A	50.00	52.71	0.2286444	0.2410192	0.01	5.4	20
Benzaldehyde	A	50.00	59.85	0.9974323	1.193961	0.01	19.7	20
Benzidine	A	50.00	69.48	0.650866	0.9045047	0.01	39.0	20 *
1,1-Biphenyl	A	50.00	49.06	1.358172	1.33274	0.01	-1.9	20
Caprolactam	A	50.00	62.29	0.1054972	0.13142	0.01	24.6	20 *
3,3'-Dichlorobenzidine	A	50.00	60.72	0.3990372	0.484553	0.01	21.4	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.24	1.10566	1.066693	0.9	-3.5	20
Acenaphthylene	A	50.00	49.90	1.65984	1.656671	0.9	-0.2	20
Anthracene	A	50.00	52.15	1.081887	1.128328	0.7	4.3	20
Benzo(a)anthracene	A	50.00	53.91	1.096178	1.181982	0.8	7.8	20
Benzo(a)pyrene	A	50.00	55.30	1.020199	1.128371	0.7	10.6	20
Benzo(b)fluoranthene	A	50.00	60.46	1.062636	1.285024	0.7	20.9	20 *
Benzo(g,h,i)perylene	A	50.00	55.66	0.9945587	1.107155	0.5	11.3	20
Benzoic acid	L	50.00	54.98	0.2585828	0.3207258	0.01	10.0	20
Benzo(k)fluoranthene	A	50.00	44.83	1.300594	1.166081	0.7	-10.3	20
4-Bromophenyl-phenylether	A	50.00	52.97	0.2362641	0.2503114	0.1	5.9	20
Butylbenzylphthalate	A	50.00	56.48	0.5337897	0.6029536	0.01	13.0	20
Carbazole	A	50.00	54.32	1.029924	1.119007	0.01	8.6	20
4-Chloro-3-methylphenol	A	50.00	53.35	0.3241539	0.3458679	0.2	6.7	20
4-Chloroaniline	A	50.00	54.71	0.4387603	0.480112	0.01	9.4	20
Bis(2-chloroethoxy)methane	A	50.00	51.70	0.4361706	0.4510304	0.3	3.4	20
Bis(2-chloroethyl)ether	A	50.00	55.26	1.284228	1.419344	0.7	10.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.30	1.662963	1.772704	0.01	6.6	20
2-Chloronaphthalene	A	50.00	49.91	1.10867	1.106589	0.8	-0.2	20
2-Chlorophenol	A	50.00	57.86	1.266695	1.465838	0.8	15.7	20
4-Chlorophenyl phenyl ether	A	50.00	48.59	0.6443488	0.6261875	0.4	-2.8	20
Chrysene	A	50.00	49.72	1.072128	1.066081	0.7	-0.6	20
Dibenz(a,h)anthracene	A	50.00	56.34	0.968097	1.09089	0.4	12.7	20
Dibenzofuran	A	50.00	49.77	1.531191	1.524107	0.8	-0.5	20
Di-n-butylphthalate	A	50.00	53.40	1.117323	1.193287	0.01	6.8	20
2,4-Dichlorophenol	A	50.00	54.24	0.3172443	0.344182	0.2	8.5	20
Diethylphthalate	A	50.00	47.26	1.246346	1.178099	0.01	-5.5	20
2,4-Dimethylphenol	A	50.00	51.21	0.3802932	0.3895176	0.2	2.4	20
Dimethyl phthalate	A	50.00	49.09	1.25703	1.234206	0.01	-1.8	20
4,6-Dinitro-2-methylphenol	L	50.00	60.33	0.1376067	0.1905519	0.01	20.7	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	L	50.00	59.25	0.1586589	0.230124	0.05	18.5	20	
2,4-Dinitrotoluene	A	50.00	54.15	0.4130027	0.4473006	0.2	8.3	20	
2,6-Dinitrotoluene	A	50.00	54.54	0.3035821	0.3311539	0.2	9.1	20	
Di-n-octylphthalate	A	50.00	59.15	1.122715	1.328206	0.01	18.3	20	
1,2-Diphenylhydrazine	A	50.00	49.49	0.7871146	0.7791231	0.01	-1.0	20	
Bis(2-ethylhexyl)phthalate	A	50.00	56.89	0.6994262	0.7958351	0.01	13.8	20	
Fluoranthene	A	50.00	53.00	1.164281	1.234176	0.6	6.0	20	
Fluorene	A	50.00	48.46	1.322497	1.281736	0.9	-3.1	20	
Hexachlorobenzene	A	50.00	52.86	0.2557988	0.2704272	0.1	5.7	20	
Hexachlorobutadiene	A	50.00	48.94	0.2021383	0.1978641	0.01	-2.1	20	
Hexachlorocyclopentadiene	A	50.00	49.31	0.3471121	0.3423018	0.05	-1.4	20	
Hexachloroethane	A	50.00	50.55	0.606057	0.6127173	0.3	1.1	20	
Indeno(1,2,3-cd)pyrene	A	50.00	54.40	1.18309	1.287177	0.5	8.8	20	
Isophorone	A	50.00	50.71	0.694789	0.7046467	0.4	1.4	20	
1-Methylnaphthalene	A	50.00	51.18	0.5852855	0.5991118	0.01	2.4	20	
2-Methylnaphthalene	A	50.00	51.44	0.6105231	0.6280455	0.4	2.9	20	
2-Methylphenol	A	50.00	57.19	1.15948	1.326269	0.7	14.4	20	
3-Methylphenol/4-Methylphenol	A	50.00	57.95	1.219104	1.413032		15.9	20	
Naphthalene	A	50.00	50.32	0.9922437	0.998702	0.7	0.7	20	
4-Nitroaniline	A	50.00	54.32	0.3237232	0.3517186	0.01	8.6	20	
3-Nitroaniline	A	50.00	58.47	0.3275855	0.3830724	0.01	16.9	20	
2-Nitroaniline	A	50.00	54.09	0.3368371	0.3644168	0.01	8.2	20	
Nitrobenzene	A	50.00	51.13	0.4042427	0.4133875	0.2	2.3	20	
4-Nitrophenol	A	50.00	51.71	0.263969	0.2730073	0.05	3.4	20	
2-Nitrophenol	A	50.00	61.92	0.1877485	0.232496	0.1	23.8	20	*
N-Nitrosodiphenylamine	A	50.00	53.06	0.6783385	0.7198479	0.01	6.1	20	
N-Nitroso-di-n-propylamine	A	50.00	51.87	0.977041	1.013615	0.5	3.7	20	
Pentachlorophenol	A	50.00	55.71	0.1662584	0.1852505	0.05	11.4	20	
Phenanthrene	A	50.00	50.71	1.082295	1.097686	0.7	1.4	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	55.13	1.701202	1.875886	0.8	10.3	20
Pyrene	A	50.00	52.59	1.182005	1.243249	0.6	5.2	20
2,4,6-Trichlorophenol	A	50.00	54.59	0.3893444	0.4251115	0.2	9.2	20
2,4,5-Trichlorophenol	A	50.00	53.04	0.3894227	0.4131431	0.2	6.1	20
2-Fluorobiphenyl	A	50.00	50.96	1.269863	1.294119	0.01	1.9	20
2-Fluorophenol	A	100.0	113.5	1.119802	1.270881	0.01	13.5	20
Nitrobenzene-d5	A	50.00	51.79	0.3989519	0.4132396	0.01	3.6	20
Phenol-d6	A	100.0	108.9	1.476584	1.607863	0.01	8.9	20
Terphenyl-d14	A	50.00	61.78	0.755263	0.9332744	0.01	23.6	20 *
2,4,6-Tribromophenol	A	100.0	110.9	0.1129158	0.1251836	0.01	10.9	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV2	Injection Time:	12:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	49.97	1.761778	1.760629	0.01	-0.07	20
Atrazine	A	50.00	54.29	0.2286444	0.2482533	0.01	8.6	20
Benzaldehyde	A	50.00	58.14	0.9974323	1.159931	0.01	16.3	20
Benzidine	A	50.00	63.98	0.650866	0.832891	0.01	28.0	20 *
1,1-Biphenyl	A	50.00	48.90	1.358172	1.328454	0.01	-2.2	20
Caprolactam	A	50.00	63.06	0.1054972	0.1330455	0.01	26.1	20 *
3,3'-Dichlorobenzidine	A	50.00	60.70	0.3990372	0.4844644	0.01	21.4	20 *

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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
GW0879	10/29/12 14:32	10/30/12 08:40	10/30/12 10:30	0.79	7.00	10/30/12 16:19	0.24	40.00	
GW0880	10/29/12 11:49	10/30/12 08:40	10/30/12 10:30	0.90	7.00	10/30/12 16:47	0.26	40.00	
GW0876	10/30/12 14:42	10/31/12 08:30	10/31/12 12:45	0.88	7.00	10/31/12 16:29	0.16	40.00	
GW0877	10/30/12 12:04	10/31/12 08:30	10/31/12 12:45	0.99	7.00	10/31/12 16:56	0.17	40.00	
GW0878	11/07/12 14:33	11/08/12 08:35	11/08/12 09:35	0.75	7.00	11/14/12 21:49	6.51	40.00	

Data for SW8011 Forms

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J28923	35.00/35.00	36.5	35.0	1.00		10/30/12
1210274-03 [GW0880]	2J28923	35.00/35.00	38.3	35.0	1.00		10/30/12

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-01 [GW0876]	2J31007	35.00/35.00	37.1	35.0	1.00		10/31/12
1210294-03 [GW0877]	2J31007	35.00/35.00	37.3	35.0	1.00		10/31/12

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211062-01 [GW0877R]	2K07018	35.00/35.00	37.1	35.0	1.00		11/07/12
1211062-02 [GW0880R]	2K07018	35.00/35.00	37.8	35.0	1.00		11/07/12

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-01 [GW0876R]	2K08010	35.00/35.00	37.2	35.0	1.00		11/08/12
1211075-02 [GW0878]	2K08010	35.00/35.00	37.6	35.0	1.00		11/08/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	008F0101.D
Sampled:	10/29/12 14:32	Prepared:	10/30/12 10:15	Analyzed:	10/30/12 12:41
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J28923 Sequence: 2K30709 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00959	0.0192	0.0288	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.907	1.972	103	30 - 130	
1,3-Dibromopropane [2C]	1.907	1.630	85.5	30 - 130	

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	009R0101.D
Sampled:	10/29/12 11:49	Prepared:	10/30/12 10:15	Analyzed:	10/30/12 13:03
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J28923 Sequence: 2K30709 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00915	0.0183	0.0274	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.819	1.879	103	30 - 130	
1,3-Dibromopropane [2C]	1.819	1.562	85.9	30 - 130	

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	009F0101.D
Sampled:	10/30/12 14:42	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 13:07
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J31007 Sequence: 2K30711 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00942	0.0188	0.0283	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.874	1.850	98.7	30 - 130	
1,3-Dibromopropane [2C]	1.874	1.480	79.0	30 - 130	

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	010R0101.D
Sampled:	10/30/12 12:04	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 13:29
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2J31007 Sequence: 2K30711 Calibration: 2292002 Instrument: GL-ECD2

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.868	1.792	95.9	30 - 130	
1,3-Dibromopropane [2C]	1.868	1.448	77.5	30 - 130	

ANALYSIS DATA SHEET

GW0877R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211062-01	File ID:	005R0101.D
Sampled:	11/06/12 16:18	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 15:47
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00942	0.0188	0.0283	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.874	1.799	96.0	30 - 130	
1,3-Dibromopropane [2C]	1.874	1.582	84.4	30 - 130	Y

ANALYSIS DATA SHEET

GW0880R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211062-02	File ID:	006R0101.D
Sampled:	11/06/12 11:51	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 16:08
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00926	0.0185	0.0278	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.842	1.710	92.8	30 - 130	
1,3-Dibromopropane [2C]	1.842	1.509	81.9	30 - 130	Y

ANALYSIS DATA SHEET

GW0876R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-01	File ID:	005F0101.D
Sampled:	11/07/12 10:15	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 14:11
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00941	0.0188	0.0282	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.872	1.849	98.8	30 - 130	
1,3-Dibromopropane [2C]	1.872	1.630	87.1	30 - 130	

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	006R0101.D
Sampled:	11/07/12 14:33	Prepared:	11/08/12 09:57	Analyzed:	11/08/12 14:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00932	0.0186	0.0279	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.853	1.756	94.8	30 - 130	
1,3-Dibromopropane [2C]	1.853	1.538	83.0	30 - 130	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30709	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K30709-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 10/30/12 10:35		
1,3-Dibromopropane	1.989	106	80 - 120	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	86.7	80 - 120	6.066	6.066	0.0000	+/-0.030	
Blank (2J28923-BLK1) ug/L				Lab File ID: 005F0101.D		Analyzed: 10/30/12 11:38		
1,3-Dibromopropane	1.989	105	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.989	87.9	30 - 130	6.063	6.066	-0.0030	+/-0.030	
LCS (2J28923-BS1) ug/L				Lab File ID: 006F0101.D		Analyzed: 10/30/12 11:59		
1,3-Dibromopropane	1.989	109	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	91.2	30 - 130	6.063	6.066	-0.0030	+/-0.030	
LCS Dup (2J28923-BSD1) ug/L				Lab File ID: 007F0101.D		Analyzed: 10/30/12 12:20		
1,3-Dibromopropane	1.989	107	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	89.8	30 - 130	6.063	6.066	-0.0030	+/-0.030	
GW0879 (1210274-01) ug/L				Lab File ID: 008F0101.D		Analyzed: 10/30/12 12:41		
1,3-Dibromopropane	1.907	103	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.907	85.5	30 - 130	6.063	6.066	-0.0030	+/-0.030	
GW0880 (1210274-03) ug/L				Lab File ID: 009F0101.D		Analyzed: 10/30/12 13:03		
1,3-Dibromopropane	1.819	103	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.819	85.9	30 - 130	6.063	6.066	-0.0030	+/-0.030	
Calibration Check (2K30709-CCV2) ug/L				Lab File ID: 010F0101.D		Analyzed: 10/30/12 13:24		
1,3-Dibromopropane	1.989	106	80 - 120	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.989	88.0	80 - 120	6.06	6.066	-0.0060	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30711	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K30711-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 10/31/12 10:34		
1,3-Dibromopropane	1.989	105	80 - 120	6	6	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	88.1	80 - 120	6.053	6.053	0.0000	+/-0.030	
Blank (2J31007-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 10/31/12 10:56		
1,3-Dibromopropane	1.989	101	30 - 130	5.996	6	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.989	83.9	30 - 130	6.05	6.053	-0.0030	+/-0.030	
LCS (2J31007-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 10/31/12 11:18		
1,3-Dibromopropane	1.989	104	30 - 130	5.993	6	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.989	86.1	30 - 130	6.046	6.053	-0.0070	+/-0.030	
LCS Dup (2J31007-BSD1) ug/L				Lab File ID: 005F0101.D		Analyzed: 10/31/12 11:40		
1,3-Dibromopropane	1.989	107	30 - 130	5.993	6	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.989	88.5	30 - 130	6.05	6.053	-0.0030	+/-0.030	
GW0876 (1210294-01) ug/L				Lab File ID: 009F0101.D		Analyzed: 10/31/12 13:07		
1,3-Dibromopropane	1.874	98.7	30 - 130	5.996	6	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.874	79.0	30 - 130	6.05	6.053	-0.0030	+/-0.030	
GW0877 (1210294-03) ug/L				Lab File ID: 010F0101.D		Analyzed: 10/31/12 13:29		
1,3-Dibromopropane	1.868	95.9	30 - 130	5.996	6	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.868	77.5	30 - 130	6.05	6.053	-0.0030	+/-0.030	
Calibration Check (2K30711-CCV2) ug/L				Lab File ID: 011F0101.D		Analyzed: 10/31/12 13:51		
1,3-Dibromopropane	1.989	99.7	80 - 120	5.996	6	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.989	81.1	80 - 120	6.053	6.053	0.0000	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31606-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 11/07/12 14:43		
1,3-Dibromopropane	1.989	100	80 - 120	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	85.3	80 - 120	6.063	6.063	0.0000	+/-0.030	
Blank (2K07018-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 11/07/12 15:04		
1,3-Dibromopropane	1.989	99.8	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	88.7	30 - 130	6.063	6.063	0.0000	+/-0.030	
LCS (2K07018-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 11/07/12 15:26		
1,3-Dibromopropane	1.989	98.2	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.989	89.1	30 - 130	6.063	6.063	0.0000	+/-0.030	
GW0877R (1211062-01) ug/L				Lab File ID: 005F0101.D		Analyzed: 11/07/12 15:47		
1,3-Dibromopropane	1.874	96.0	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.874	84.4	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0880R (1211062-02) ug/L				Lab File ID: 006F0101.D		Analyzed: 11/07/12 16:08		
1,3-Dibromopropane	1.842	92.8	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.842	81.9	30 - 130	6.063	6.063	0.0000	+/-0.030	
Calibration Check (2K31606-CCV2) ug/L				Lab File ID: 017F0101.D		Analyzed: 11/07/12 20:02		
1,3-Dibromopropane	1.989	88.0	80 - 120	6.003	6.01	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.989	74.0	80 - 120	6.06	6.063	-0.0030	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31716	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31716-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 11/08/12 13:07		
1,3-Dibromopropane	1.989	98.9	80 - 120	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	89.7	80 - 120	6.056	6.056	0.0000	+/-0.030	
Blank (2K08010-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 11/08/12 13:28		
1,3-Dibromopropane	1.989	101	30 - 130	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	90.9	30 - 130	6.056	6.056	0.0000	+/-0.030	
LCS (2K08010-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 11/08/12 13:49		
1,3-Dibromopropane	1.989	98.6	30 - 130	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	87.6	30 - 130	6.056	6.056	0.0000	+/-0.030	
GW0876R (1211075-01) ug/L				Lab File ID: 005F0101.D		Analyzed: 11/08/12 14:11		
1,3-Dibromopropane	1.872	98.8	30 - 130	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.872	87.1	30 - 130	6.056	6.056	0.0000	+/-0.030	
GW0878 (1211075-02) ug/L				Lab File ID: 006F0101.D		Analyzed: 11/08/12 14:32		
1,3-Dibromopropane	1.853	94.8	30 - 130	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.853	83.0	30 - 130	6.056	6.056	0.0000	+/-0.030	
Calibration Check (2K31716-CCV2) ug/L				Lab File ID: 007F0101.D		Analyzed: 11/08/12 14:53		
1,3-Dibromopropane	1.989	96.4	80 - 120	6.003	6.003	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	83.4	80 - 120	6.056	6.056	0.0000	+/-0.030	

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J28923	Laboratory ID:	2J28923-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	0.4939	98.8	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4419	88.4	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5130	103	3.79	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4517	90.3	2.20	20	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31007	Laboratory ID:	2J31007-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	0.4831	96.6	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4334	86.7	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.4920	98.4	1.82	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4164	83.3	4.01	20	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07018	Laboratory ID:	2K07018-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	0.5020	100	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4611	92.2	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08010	Laboratory ID:	2K08010-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5012	100	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4714	94.3	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J28923 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/30/12 10:15	36.51	35.00
GW0880	1210274-03	10/30/12 10:15	38.27	35.00
Blank	2J28923-BLK1	10/28/12 18:38	35.00	35.00
LCS	2J28923-BS1	10/30/12 09:00	35.00	35.00
LCS Dup	2J28923-BSD1	10/28/12 18:38	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31007 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-01	10/31/12 13:00	37.14	35.00
GW0877	1210294-03	10/31/12 13:00	37.26	35.00
Blank	2J31007-BLK1	10/31/12 08:01	35.00	35.00
LCS	2J31007-BS1	10/31/12 08:01	35.00	35.00
LCS Dup	2J31007-BSD1	10/31/12 08:01	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K07018 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0877R	1211062-01	11/07/12 09:10	37.14	35.00
GW0880R	1211062-02	11/07/12 09:10	37.78	35.00
Blank	2K07018-BLK1	11/07/12 09:10	35.00	35.00
LCS	2K07018-BS1	11/07/12 09:10	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K08010 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876R	1211075-01	11/08/12 09:57	37.19	35.00
GW0878	1211075-02	11/08/12 09:57	37.57	35.00
Blank	2K08010-BLK1	11/08/12 09:57	35.00	35.00
LCS	2K08010-BS1	11/08/12 09:57	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J28923-BLK1	File ID:	005R0101.D
Sampled:		Prepared:	10/28/12 18:38	Analyzed:	10/30/12 11:38
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J28923	Sequence:	2K30709	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.081	105	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.748	87.9	30 - 130	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31007-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	10/31/12 08:01	Analyzed:	10/31/12 10:56
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J31007	Sequence:	2K30711	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.017	101	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.669	83.9	30 - 130	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K07018-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	11/07/12 09:10	Analyzed:	11/07/12 15:04
Solids:		Preparation:	EDB	Dilution:	

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.984	99.8	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.764	88.7	30 - 130	Y

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K08010-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	11/08/12 09:57	Analyzed:	11/08/12 13:28
Solids:		Preparation:	EDB	Dilution:	

Batch: 2K08010 Sequence: 2K31716 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.017	101	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.808	90.9	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J28923-BS1	File ID:	006F0101.D
Sampled:		Prepared:		Analyzed:	10/30/12 11:59
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J28923	Sequence:	2K30709	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4939**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.161	109	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J28923-BS1	File ID:	006R0101.D
Sampled:		Prepared:		Analyzed:	10/30/12 11:59
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J28923	Sequence:	2K30709	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4419**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.813	91.2	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J28923-BSD1	File ID:	007F0101.D
Sampled:		Prepared:		Analyzed:	10/30/12 12:20
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J28923	Sequence:	2K30709	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5130**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.122	107	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J28923-BSD1	File ID:	007R0101.D
Sampled:		Prepared:		Analyzed:	10/30/12 12:20
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J28923	Sequence:	2K30709	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4517**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.787	89.8	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31007-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	10/31/12 11:18
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J31007	Sequence:	2K30711	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4831**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.076	104	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31007-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	10/31/12 11:18
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J31007	Sequence:	2K30711	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4334**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.713	86.1	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31007-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	10/31/12 11:40
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J31007	Sequence:	2K30711	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4920**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	2.119	107	30 - 130	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31007-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	10/31/12 11:40
Solids:		Preparation:	EDB	Dilution:	

Batch:	2J31007	Sequence:	2K30711	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4164**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.761	88.5	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K07018-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 15:26
Solids:		Preparation:	EDB	Dilution:	

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5020**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.952	98.2	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 15:26
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4611**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.773	89.1	30 - 130	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 13:49
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5012**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.961	98.6	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08010-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 13:49
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K08010	Sequence:	2K31716	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4714**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.742	87.6	30 - 130	

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004R0101.D	10/11/12 16:10
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004F0101.D	10/11/12 16:10
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005R0101.D	10/11/12 16:31
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005F0101.D	10/11/12 16:31
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006R0101.D	10/11/12 16:53
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006F0101.D	10/11/12 16:53
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007R0101.D	10/11/12 17:14
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007F0101.D	10/11/12 17:14
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008R0101.D	10/11/12 17:35
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008F0101.D	10/11/12 17:35
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009R0101.D	10/11/12 17:56
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009F0101.D	10/11/12 17:56

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29206-CAL1	004R0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL1	004F0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL2	005R0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL2	005F0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL3	006R0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL3	006F0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL4	007R0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL4	007F0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL5	008R0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL5	008F0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL6	009R0101.D	10/11/12 17:56
Cal Standard	2J29206-CAL6	009F0101.D	10/11/12 17:56
Initial Cal Check	2J29206-ICV1	010R0101.D	10/11/12 18:18
Initial Cal Check	2J29206-ICV1	010F0101.D	10/11/12 18:18

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30709	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K30709-CCV1	002R0101.D	10/30/12 10:35
Calibration Check	2K30709-CCV1	002F0101.D	10/30/12 10:35
Blank	2J28923-BLK1	005R0101.D	10/30/12 11:38
Blank	2J28923-BLK1	005F0101.D	10/30/12 11:38
LCS	2J28923-BS1	006R0101.D	10/30/12 11:59
LCS	2J28923-BS1	006F0101.D	10/30/12 11:59
LCS Dup	2J28923-BSD1	007R0101.D	10/30/12 12:20
LCS Dup	2J28923-BSD1	007F0101.D	10/30/12 12:20
GW0879	1210274-01	008R0101.D	10/30/12 12:41
GW0879	1210274-01	008F0101.D	10/30/12 12:41
GW0880	1210274-03	009R0101.D	10/30/12 13:03
GW0880	1210274-03	009F0101.D	10/30/12 13:03
Calibration Check	2K30709-CCV2	010R0101.D	10/30/12 13:24
Calibration Check	2K30709-CCV2	010F0101.D	10/30/12 13:24

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30711	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K30711-CCV1	002R0101.D	10/31/12 10:34
Calibration Check	2K30711-CCV1	002F0101.D	10/31/12 10:34
Blank	2J31007-BLK1	003R0101.D	10/31/12 10:56
Blank	2J31007-BLK1	003F0101.D	10/31/12 10:56
LCS	2J31007-BS1	004R0101.D	10/31/12 11:18
LCS	2J31007-BS1	004F0101.D	10/31/12 11:18
LCS Dup	2J31007-BSD1	005R0101.D	10/31/12 11:40
LCS Dup	2J31007-BSD1	005F0101.D	10/31/12 11:40
GW0876	1210294-01	009R0101.D	10/31/12 13:07
GW0876	1210294-01	009F0101.D	10/31/12 13:07
GW0877	1210294-03	010R0101.D	10/31/12 13:29
GW0877	1210294-03	010F0101.D	10/31/12 13:29
Calibration Check	2K30711-CCV2	011R0101.D	10/31/12 13:51
Calibration Check	2K30711-CCV2	011F0101.D	10/31/12 13:51

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31606-CCV1	002R0101.D	11/07/12 14:43
Calibration Check	2K31606-CCV1	002F0101.D	11/07/12 14:43
Blank	2K07018-BLK1	003R0101.D	11/07/12 15:04
Blank	2K07018-BLK1	003F0101.D	11/07/12 15:04
LCS	2K07018-BS1	004R0101.D	11/07/12 15:26
LCS	2K07018-BS1	004F0101.D	11/07/12 15:26
GW0877R	1211062-01	005R0101.D	11/07/12 15:47
GW0877R	1211062-01	005F0101.D	11/07/12 15:47
GW0880R	1211062-02	006R0101.D	11/07/12 16:08
GW0880R	1211062-02	006F0101.D	11/07/12 16:08
Calibration Check	2K31606-CCV2	017R0101.D	11/07/12 20:02
Calibration Check	2K31606-CCV2	017F0101.D	11/07/12 20:02

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31716	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31716-CCV1	002R0101.D	11/08/12 13:07
Calibration Check	2K31716-CCV1	002F0101.D	11/08/12 13:07
Blank	2K08010-BLK1	003R0101.D	11/08/12 13:28
Blank	2K08010-BLK1	003F0101.D	11/08/12 13:28
LCS	2K08010-BS1	004R0101.D	11/08/12 13:49
LCS	2K08010-BS1	004F0101.D	11/08/12 13:49
GW0876R	1211075-01	005R0101.D	11/08/12 14:11
GW0876R	1211075-01	005F0101.D	11/08/12 14:11
GW0878	1211075-02	006R0101.D	11/08/12 14:32
GW0878	1211075-02	006F0101.D	11/08/12 14:32
Calibration Check	2K31716-CCV2	007R0101.D	11/08/12 14:53
Calibration Check	2K31716-CCV2	007F0101.D	11/08/12 14:53

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2292002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.02	10650	0.05	10860	0.1	10660	0.2	9475	0.5	9386	1	8356
1,2-Dibromoethane [2C]	0.02	31550	0.05	34320	0.1	34660	0.2	32510	0.5	31110	1	30406
1,2-Dibromo-3-chloropropane	0.02	22600	0.05	20080	0.1	19070	0.2	16850	0.5	15220	1	13344
1,2-Dibromo-3-chloropropane [2C]	0.02	68550	0.05	63880	0.1	59900	0.2	56300	0.5	56304	1	53927
1,3-Dibromopropane	0.09944	6244.972	0.1989	~~2885.872~~	0.4972	6391.794	0.9944	5737.128	1.989	5078.431	3.978	4436.4
1,3-Dibromopropane [2C]	0.09944	26739.74	0.1989	~~12227.25~~	0.4972	24656.07	0.9944	22013.27	1.989	19895.93	3.978	17722.72

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2292002	Instrument:	GL-ECD2		
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	9897.833	9.991906	2.694	0.0551041			20	
1,2-Dibromoethane [2C]	32426	5.370791	2.66	1.685277E-02			20	
1,2-Dibromo-3-chloropropane	17860.67	18.94447	8.78	1.335599E-02			20	
1,2-Dibromo-3-chloropropane [2C]	59810.17	9.224062	9.119333	2.295245E-02			20	
1,3-Dibromopropane	5577.745	14.68939	6.0154	2.089261E-02			20	
1,3-Dibromopropane [2C]	22205.55	16.242	6.0692	2.971043E-02			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	010F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29206	Injection Date:	10/11/12
Lab Sample ID:	2J29206-ICV1	Injection Time:	18:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4839	9897.833	9580		-3.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.4886	32426	31684		-2.3	20
1,3-Dibromopropane	A	1.989	1.779	5577.745	4989.945		-10.5	20
1,3-Dibromopropane [2C]	A	1.989	1.741	22205.55	19441.43		-12.4	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K30709	Injection Date:	10/30/12
Lab Sample ID:	2K30709-CCV1	Injection Time:	10:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5127	9897.833	10150		2.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4174	32426	27066		-16.5	20
1,3-Dibromopropane	A	1.989	2.106	5577.745	5904.475		5.9	20
1,3-Dibromopropane [2C]	A	1.989	1.724	22205.55	19252.39		-13.3	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	010F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K30709	Injection Date:	10/30/12
Lab Sample ID:	2K30709-CCV2	Injection Time:	13:24

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5030	9897.833	9958		0.6	20
1,2-Dibromoethane [2C]	A	0.5000	0.4419	32426	28656		-11.6	20
1,3-Dibromopropane	A	1.989	2.102	5577.745	5894.419		5.7	20
1,3-Dibromopropane [2C]	A	1.989	1.750	22205.55	19542.99		-12.0	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K30711	Injection Date:	10/31/12
Lab Sample ID:	2K30711-CCV1	Injection Time:	10:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4674	9897.833	9252		-6.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4323	32426	28038		-13.5	20
1,3-Dibromopropane	A	1.989	2.086	5577.745	5850.176		4.9	20
1,3-Dibromopropane [2C]	A	1.989	1.752	22205.55	19557.06		-11.9	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	011F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K30711	Injection Date:	10/31/12
Lab Sample ID:	2K30711-CCV2	Injection Time:	13:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4438	9897.833	8786		-11.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.4058	32426	26318		-18.8	20
1,3-Dibromopropane	A	1.989	1.983	5577.745	5561.589		-0.3	20
1,3-Dibromopropane [2C]	A	1.989	1.613	22205.55	18009.05		-18.9	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31606	Injection Date:	11/07/12
Lab Sample ID:	2K31606-CCV1	Injection Time:	14:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5007	9897.833	9912		0.1	20
1,2-Dibromoethane [2C]	A	0.5000	0.4276	32426	27734		-14.5	20
1,3-Dibromopropane	A	1.989	1.990	5577.745	5579.186		0.03	20
1,3-Dibromopropane [2C]	A	1.989	1.696	22205.55	18937.15		-14.7	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	017F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31606	Injection Date:	11/07/12
Lab Sample ID:	2K31606-CCV2	Injection Time:	20:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4498	9897.833	8904		-10.0	20
1,2-Dibromoethane [2C]	A	0.5000	0.4015	32426	26036		-19.7	20
1,3-Dibromopropane	A	1.989	1.751	5577.745	4910.005		-12.0	20
1,3-Dibromopropane [2C]	A	1.989	1.471	22205.55	16420.31		-26.1	20 *

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31716	Injection Date:	11/08/12
Lab Sample ID:	2K31716-CCV1	Injection Time:	13:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5052	9897.833	10002		1.1	20
1,2-Dibromoethane [2C]	A	0.5000	0.4736	32426	30714		-5.3	20
1,3-Dibromopropane	A	1.989	1.968	5577.745	5520.362		-1.0	20
1,3-Dibromopropane [2C]	A	1.989	1.785	22205.55	19927.6		-10.3	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	007F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31716	Injection Date:	11/08/12
Lab Sample ID:	2K31716-CCV2	Injection Time:	14:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4932	9897.833	9764		-1.4	20
1,2-Dibromoethane [2C]	A	0.5000	0.4349	32426	28204		-13.0	20
1,3-Dibromopropane	A	1.989	1.917	5577.745	5375.566		-3.6	20
1,3-Dibromopropane [2C]	A	1.989	1.658	22205.55	18511.81		-16.6	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J28923-BS1 Date(s) Analyzed: 10/30/2012 10/30/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4939	
	2	2.66	2.63	2.69	0.4419	11

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J28923-BSD1 Date(s) Analyzed: 10/30/2012 10/30/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5130	
	2	2.66	2.63	2.69	0.4517	13

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J31007-BS1 Date(s) Analyzed: 10/31/2012 10/31/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.68	2.65	2.71	0.4831	
	2	2.65	2.62	2.68	0.4334	11

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2J31007-BSD1 Date(s) Analyzed: 10/31/2012 10/31/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.68	2.65	2.71	0.4920	
	2	2.65	2.62	2.68	0.4164	17

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-BS1 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5020	
	2	2.66	2.63	2.69	0.4611	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K08010-BS1 Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5012	
	2	2.65	2.62	2.68	0.4714	6

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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
GW0879	10/29/12 14:32	10/30/12 08:40	10/30/12 10:15	N/A	14.00	10/30/12 12:41	0.88	14.00	
GW0880	10/29/12 11:49	10/30/12 08:40	10/30/12 10:15	N/A	14.00	10/30/12 13:03	1.01	14.00	
GW0876	10/30/12 14:42	10/31/12 08:30	10/31/12 13:00	N/A	14.00	10/31/12 13:07	0.89	14.00	
GW0877	10/30/12 12:04	10/31/12 08:30	10/31/12 13:00	N/A	14.00	10/31/12 13:29	1.02	14.00	
GW0877R	11/06/12 16:18	11/07/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 15:47	0.98	14.00	
GW0880R	11/06/12 11:51	11/07/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 16:08	1.14	14.00	
GW0876R	11/07/12 10:15	11/08/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 14:11	1.12	14.00	
GW0878	11/07/12 14:33	11/08/12 08:35	11/08/12 09:57	N/A	14.00	11/08/12 14:32	0.96	14.00	

SW8015B (DRO)
Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J30410	1,000.00/1.00	1000	1.00	1.00		10/30/12
1210274-03 [GW0880]	2J30410	1,000.00/1.00	1000	1.00	1.00		10/30/12

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-01 [GW0876]	2J31025	1,000.00/1.00	1020	1.00	1.00		10/31/12
1210294-03 [GW0877]	2J31025	1,000.00/1.00	1020	1.00	1.00		10/31/12

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K08016	1,000.00/1.00	1020	1.00	1.00		11/08/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	041F4101.D
Sampled:	10/29/12 14:32	Prepared:	10/30/12 10:35	Analyzed:	10/30/12 14:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J30410 Sequence: 2K30712 Calibration: 2278001 Instrument: GL-GCFID2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01229	61.5	30 - 140	

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	042F4201.D
Sampled:	10/29/12 11:49	Prepared:	10/30/12 10:35	Analyzed:	10/30/12 14:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J30410 Sequence: 2K30712 Calibration: 2278001 Instrument: GL-GCFID2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.008258	41.3	30 - 140	

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	006F0601.D
Sampled:	10/30/12 14:42	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 16:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.008726	44.5	30 - 140	Y

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	007F0701.D
Sampled:	10/30/12 12:04	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 17:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.005528	28.2	30 - 140	*Y

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	032F3201.D
Sampled:	11/07/12 14:33	Prepared:	11/08/12 13:00	Analyzed:	11/16/12 13:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01626	83.0	30 - 140	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30712	Instrument:	GL-GCFID2
		Calibration:	2278001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K30712-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 10/29/12 16:57		
o-Terphenyl	50.00	72.5	80 - 120	10.85	10.85	0.0000	+/-0.050	*
Calibration Check (2K30712-CCV3) mg/L				Lab File ID: 031F3101.D		Analyzed: 10/30/12 08:29		
o-Terphenyl	50.00	107	80 - 120	10.85	10.85	0.0000	+/-0.050	
Blank (2J30410-BLK1) mg/L				Lab File ID: 038F3801.D		Analyzed: 10/30/12 12:22		
o-Terphenyl	0.02000	66.6	30 - 140	10.85	10.85	0.0000	+/-0.050	
LCS (2J30410-BS1) mg/L				Lab File ID: 039F3901.D		Analyzed: 10/30/12 12:55		
o-Terphenyl	0.02000	52.3	30 - 140	10.84	10.85	-0.0100	+/-0.050	
LCS Dup (2J30410-BSD1) mg/L				Lab File ID: 040F4001.D		Analyzed: 10/30/12 13:28		
o-Terphenyl	0.02000	53.5	30 - 140	10.84	10.85	-0.0100	+/-0.050	
GW0879 (1210274-01) mg/L				Lab File ID: 041F4101.D		Analyzed: 10/30/12 14:02		
o-Terphenyl	0.02000	61.5	30 - 140	10.853	10.85	0.0030	+/-0.050	
GW0880 (1210274-03) mg/L				Lab File ID: 042F4201.D		Analyzed: 10/30/12 14:35		
o-Terphenyl	0.02000	41.3	30 - 140	10.85	10.85	0.0000	+/-0.050	
Calibration Check (2K30712-CCV4) mg/L				Lab File ID: 045F4501.D		Analyzed: 10/30/12 16:15		
o-Terphenyl	50.00	85.5	80 - 120	10.836	10.85	-0.0140	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31017	Instrument:	GL-GCFID2
		Calibration:	2278001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31017-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 10/31/12 15:11		
o-Terphenyl	50.00	78.2	80 - 120	10.846	10.846	0.0000	+/-0.050	*
Blank (2J31025-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/31/12 15:45		
o-Terphenyl	0.02000	66.9	30 - 140	10.853	10.846	0.0070	+/-0.050	
LCS (2J31025-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/31/12 16:18		
o-Terphenyl	0.02000	55.8	30 - 140	10.83	10.846	-0.0160	+/-0.050	
GW0876 (1210294-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 10/31/12 16:51		
o-Terphenyl	0.01961	44.5	30 - 140	10.83	10.846	-0.0160	+/-0.050	
GW0877 (1210294-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 10/31/12 17:25		
o-Terphenyl	0.01961	28.2	30 - 140	10.83	10.846	-0.0160	+/-0.050	*
Calibration Check (2K31017-CCV2) mg/L				Lab File ID: 016F1601.D		Analyzed: 10/31/12 22:22		
o-Terphenyl	50.00	59.4	80 - 120	10.826	10.846	-0.0200	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32408-CCV1) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/16/12 03:37		
o-Terphenyl	50.00	82.5	80 - 120	11.443	11.443	0.0000	+/-0.050	
Calibration Check (2K32408-CCV2) mg/L				Lab File ID: 022F2201.D		Analyzed: 11/16/12 08:03		
o-Terphenyl	50.00	94.2	80 - 120	11.453	11.443	0.0100	+/-0.050	
Blank (2K08016-BLK1) mg/L				Lab File ID: 023F2301.D		Analyzed: 11/16/12 08:36		
o-Terphenyl	0.02000	86.9	30 - 140	11.466	11.443	0.0230	+/-0.050	
LCS (2K08016-BS1) mg/L				Lab File ID: 024F2401.D		Analyzed: 11/16/12 09:09		
o-Terphenyl	0.02000	83.1	30 - 140	11.463	11.443	0.0200	+/-0.050	
GW0878 (1211075-02) mg/L				Lab File ID: 032F3201.D		Analyzed: 11/16/12 13:37		
o-Terphenyl	0.01961	83.0	30 - 140	11.49	11.443	0.0470	+/-0.050	
Calibration Check (2K32408-CCV3) mg/L				Lab File ID: 033F3301.D		Analyzed: 11/16/12 14:10		
o-Terphenyl	50.00	95.3	80 - 120	11.456	11.443	0.0130	+/-0.050	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30410	Laboratory ID:	2J30410-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	0.5493	54.9	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5452	54.5	0.762	30	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31025	Laboratory ID:	2J31025-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	0.6427	64.3	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08016	Laboratory ID:	2K08016-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6844	68.4	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J30410 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/30/12 10:35	1,000.00	1.00
GW0880	1210274-03	10/30/12 10:35	1,000.00	1.00
Blank	2J30410-BLK1	10/30/12 10:35	1,000.00	1.00
LCS	2J30410-BS1	10/30/12 10:35	1,000.00	1.00
LCS Dup	2J30410-BSD1	10/30/12 10:35	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31025 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-01	10/31/12 13:00	1,020.00	1.00
GW0877	1210294-03	10/31/12 13:00	1,020.00	1.00
Blank	2J31025-BLK1	10/31/12 13:00	1,000.00	1.00
LCS	2J31025-BS1	10/31/12 13:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K08016 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/08/12 13:00	1,020.00	1.00
Blank	2K08016-BLK1	11/08/12 13:00	1,000.00	1.00
LCS	2K08016-BS1	11/08/12 13:00	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J30410-BLK1	File ID:	038F3801.D
Sampled:		Prepared:		Analyzed:	10/30/12 12:22
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J30410	Sequence:	2K30712	Calibration:	2278001	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01332	66.6	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J30410-BS1	File ID:	039F3901.D
Sampled:		Prepared:		Analyzed:	10/30/12 12:55
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J30410	Sequence:	2K30712	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.5493**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01047	52.3	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J30410-BSD1	File ID:	040F4001.D
Sampled:		Prepared:		Analyzed:	10/30/12 13:28
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J30410	Sequence:	2K30712	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.5452**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01069	53.5	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31025-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/31/12 15:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J31025	Sequence:	2K31017	Calibration:	2278001	Instrument:	GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01337	66.9	30 - 140	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31025-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/31/12 16:18
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J31025	Sequence:	2K31017	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6427**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01116	55.8	30 - 140	Y

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K08016-BLK1	File ID:	023F2301.D
Sampled:		Prepared:		Analyzed:	11/16/12 08:36
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2K08016 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01737	86.9	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08016-BS1	File ID:	024F2401.D
Sampled:		Prepared:		Analyzed:	11/16/12 09:09
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K08016	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6844**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01661	83.1	30 - 140	

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J27808	Instrument:	GL-GCFID2
Calibration:	2278001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0087	DRO/OTP Cal1 (5000/250ppm)	2J27808-CAL1	003F0301.D	10/03/12 13:48
12J0088	DRO/OTP Cal2 (2500/125ppm)	2J27808-CAL2	004F0401.D	10/03/12 14:21
12J0089	DRO/OTP Cal3 (1000/50ppm)	2J27808-CAL3	005F0501.D	10/03/12 14:54
12J0090	DRO/OTP Cal4 (500/25ppm)	2J27808-CAL4	006F0601.D	10/03/12 15:28
12J0091	DRO/OTP Cal5 (250/12.5ppm)	2J27808-CAL5	007F0701.D	10/03/12 16:01
12J0092	DRO/OTP Cal6 (100/5ppm)	2J27808-CAL6	008F0801.D	10/03/12 16:34

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32018	Instrument:	GL-GCFID2
Calibration:	2320005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0092	DRO/OTP Cal6 (100/5ppm)	2K32018-CAL6	010F1001.D	11/15/12 02:14
12J0091	DRO/OTP Cal5 (250/12.5ppm)	2K32018-CAL5	011F1101.D	11/15/12 02:47
12J0090	DRO/OTP Cal4 (500/25ppm)	2K32018-CAL4	012F1201.D	11/15/12 03:20
12J0089	DRO/OTP Cal3 (1000/50ppm)	2K32018-CAL3	013F1301.D	11/15/12 03:53
12J0088	DRO/OTP Cal2 (2500/125ppm)	2K32018-CAL2	014F1401.D	11/15/12 04:26
12J0087	DRO/OTP Cal1 (5000/250ppm)	2K32018-CAL1	015F1501.D	11/15/12 04:59

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J27808	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J27808-CAL1	003F0301.D	10/03/12 13:48
Cal Standard	2J27808-CAL2	004F0401.D	10/03/12 14:21
Cal Standard	2J27808-CAL3	005F0501.D	10/03/12 14:54
Cal Standard	2J27808-CAL4	006F0601.D	10/03/12 15:28
Cal Standard	2J27808-CAL5	007F0701.D	10/03/12 16:01
Cal Standard	2J27808-CAL6	008F0801.D	10/03/12 16:34
Initial Cal Check	2J27808-ICV1	009F0901.D	10/03/12 17:08

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30712	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K30712-CCV1	003F0301.D	10/29/12 16:57
Calibration Check	2K30712-CCV3	031F3101.D	10/30/12 08:29
Blank	2J30410-BLK1	038F3801.D	10/30/12 12:22
LCS	2J30410-BS1	039F3901.D	10/30/12 12:55
LCS Dup	2J30410-BSD1	040F4001.D	10/30/12 13:28
GW0879	1210274-01	041F4101.D	10/30/12 14:02
GW0880	1210274-03	042F4201.D	10/30/12 14:35
Calibration Check	2K30712-CCV4	045F4501.D	10/30/12 16:15

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31017	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31017-CCV1	003F0301.D	10/31/12 15:11
Blank	2J31025-BLK1	004F0401.D	10/31/12 15:45
LCS	2J31025-BS1	005F0501.D	10/31/12 16:18
GW0876	1210294-01	006F0601.D	10/31/12 16:51
GW0877	1210294-03	007F0701.D	10/31/12 17:25
Calibration Check	2K31017-CCV2	016F1601.D	10/31/12 22:22

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32018	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32018-CAL6	010F1001.D	11/15/12 02:14
Cal Standard	2K32018-CAL5	011F1101.D	11/15/12 02:47
Cal Standard	2K32018-CAL4	012F1201.D	11/15/12 03:20
Cal Standard	2K32018-CAL3	013F1301.D	11/15/12 03:53
Cal Standard	2K32018-CAL2	014F1401.D	11/15/12 04:26
Cal Standard	2K32018-CAL1	015F1501.D	11/15/12 04:59
Initial Cal Check	2K32018-ICV1	016F1601.D	11/15/12 05:32

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32408-CCV1	014F1401.D	11/16/12 03:37
Calibration Check	2K32408-CCV2	022F2201.D	11/16/12 08:03
Blank	2K08016-BLK1	023F2301.D	11/16/12 08:36
LCS	2K08016-BS1	024F2401.D	11/16/12 09:09
GW0878	1211075-02	032F3201.D	11/16/12 13:37
Calibration Check	2K32408-CCV3	033F3301.D	11/16/12 14:10

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2278001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	10/3/12_13:48	10/3/12_16:34

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	5000	713.812	2500	581.5312	1000	606.94	500	556.046	250	379.18	100	327.93
o-Terphenyl	250	816.82	125	677.752	50	727.64	25	672.88	12.5	695.44	5	749

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2278001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	10/3/12 13:48	10/3/12 16:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	527.5732	27.67442	5.88	1.329984E-02		0.9990672	0.99	
o-Terphenyl	723.2553	7.527006	11.10817	4.717436E-02			20	

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2320005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/15/12 2:14	11/15/12 4:59

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	5000	476.824	2500	448.1404	1000	538.35	500	274.594	250	340.924	100	614.25
o-Terphenyl	250	540.764	125	556.872	50	720.8	25	438.2	12.5	561.6	5	856

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2320005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/15/12 2:14	11/15/12 4:59

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	448.8471	27.85601	6.44	2.123135E-02	0.9957564		0.995	
o-Terphenyl	612.3727	24.46579	11.455	0.1110084		0.9960525	0.99	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	009F0901.D	Calibration Date:	10/03/12 13:48
Sequence:	2J27808	Injection Date:	10/03/12
Lab Sample ID:	2J27808-ICV1	Injection Time:	17:08

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1014	527.5732	557.896		1.4	20

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	016F1601.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32018	Injection Date:	11/15/12
Lab Sample ID:	2K32018-ICV1	Injection Time:	05:32

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	822.7	448.8471	367.651		-17.7	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	003F0301.D	Calibration Date:	10/03/12 13:48
Sequence:	2K30712	Injection Date:	10/29/12
Lab Sample ID:	2K30712-CCV1	Injection Time:	16:57

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	872.4	527.5732	475.616		-12.8	20
o-Terphenyl	A	50.00	36.27	723.2553	524.66		-27.5	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	031F3101.D	Calibration Date:	10/03/12 13:48
Sequence:	2K30712	Injection Date:	10/30/12
Lab Sample ID:	2K30712-CCV3	Injection Time:	08:29

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1199	527.5732	667.387		19.9	20
o-Terphenyl	A	50.00	53.40	723.2553	772.4		6.8	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	045F4501.D	Calibration Date:	10/03/12 13:48
Sequence:	2K30712	Injection Date:	10/30/12
Lab Sample ID:	2K30712-CCV4	Injection Time:	16:15

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1001	527.5732	550.307		0.1	20
o-Terphenyl	A	50.00	42.73	723.2553	618.14		-14.5	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	003F0301.D	Calibration Date:	10/03/12 13:48
Sequence:	2K31017	Injection Date:	10/31/12
Lab Sample ID:	2K31017-CCV1	Injection Time:	15:11

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	903.2	527.5732	493.468		-9.7	20
o-Terphenyl	A	50.00	39.08	723.2553	565.3		-21.8	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	016F1601.D	Calibration Date:	10/03/12 13:48
Sequence:	2K31017	Injection Date:	10/31/12
Lab Sample ID:	2K31017-CCV2	Injection Time:	22:22

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	827.6	527.5732	449.745		-17.2	20
o-Terphenyl	A	50.00	29.70	723.2553	429.68		-40.6	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	014F1401.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV1	Injection Time:	03:37

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	810.6	448.8471	361.849		-18.9	20
o-Terphenyl	Q	50.00	41.26	612.3727	503.32		-17.5	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	022F2201.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV2	Injection Time:	08:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	875.2	448.8471	392.875		-12.5	20
o-Terphenyl	Q	50.00	47.12	612.3727	573.72		-5.8	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	033F3301.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV3	Injection Time:	14:10

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	954.9	448.8471	431.173		-4.5	20
o-Terphenyl	Q	50.00	47.66	612.3727	580.22		-4.7	20

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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
GW0879	10/29/12 14:32	10/30/12 08:40	10/30/12 10:35	0.79	7.00	10/30/12 14:02	0.14	40.00	
GW0880	10/29/12 11:49	10/30/12 08:40	10/30/12 10:35	0.91	7.00	10/30/12 14:35	0.17	40.00	
GW0876	10/30/12 14:42	10/31/12 08:30	10/31/12 13:00	0.89	7.00	10/31/12 16:51	0.16	40.00	
GW0877	10/30/12 12:04	10/31/12 08:30	10/31/12 13:00	1.00	7.00	10/31/12 17:25	0.18	40.00	
GW0878	11/07/12 14:33	11/08/12 08:35	11/08/12 13:00	0.89	7.00	11/16/12 13:37	8.03	40.00	

SW8015B (GRO)
Forms

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12H0009	GRO Cal 0.1ppm	2H21611-CAL1	003F0301.D	07/31/12 15:05
12H0010	GRO Cal 0.2ppm	2H21611-CAL2	004F0401.D	07/31/12 15:45
12H0011	GRO Cal 0.5ppm	2H21611-CAL3	005F0501.D	07/31/12 16:25
12H0012	GRO Cal 1.0ppm	2H21611-CAL4	006F0601.D	07/31/12 17:05
12H0013	GRO Cal 2.0ppm	2H21611-CAL5	007F0701.D	07/31/12 17:44
12H0014	GRO Cal 5.0ppm	2H21611-CAL6	008F0801.D	07/31/12 18:24

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21611-CAL1	003F0301.D	07/31/12 15:05
Cal Standard	2H21611-CAL2	004F0401.D	07/31/12 15:45
Cal Standard	2H21611-CAL3	005F0501.D	07/31/12 16:25
Cal Standard	2H21611-CAL4	006F0601.D	07/31/12 17:05
Cal Standard	2H21611-CAL5	007F0701.D	07/31/12 17:44
Cal Standard	2H21611-CAL6	008F0801.D	07/31/12 18:24
Initial Cal Check	2H21611-ICV1	003F0301.D	08/02/12 14:13

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30705	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K30705-CCV1	003F0301.D	10/31/12 12:56
Blank	2J30412-BLK1	004F0401.D	10/31/12 13:35
LCS	2J30412-BS1	005F0501.D	10/31/12 14:13
GW0879	1210274-01	006F0601.D	10/31/12 14:51
GW0880	1210274-03	007F0701.D	10/31/12 15:30
GW0876	1210294-01	008F0801.D	10/31/12 16:08
GW0877	1210294-03	009F0901.D	10/31/12 16:47
Calibration Check	2K30705-CCV2	010F1001.D	10/31/12 17:25

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31717	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31717-CCV1	003F0301.D	11/08/12 17:34
Blank	2K08020-BLK1	004F0401.D	11/08/12 18:12
LCS	2K08020-BS1	005F0501.D	11/08/12 18:50
LCS Dup	2K08020-BSD1	006F0601.D	11/08/12 19:28
GW0878	1211075-02	007F0701.D	11/08/12 20:05
Calibration Check	2K31717-CCV2	008F0801.D	11/08/12 20:43

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J30412	5.00/5.00	5.00	5.00	1.00		10/31/12
1210274-03 [GW0880]	2J30412	5.00/5.00	5.00	5.00	1.00		10/31/12
1210294-01 [GW0876]	2J30412	5.00/5.00	5.00	5.00	1.00		10/31/12
1210294-03 [GW0877]	2J30412	5.00/5.00	5.00	5.00	1.00		10/31/12

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K08020	5.00/5.00	5.00	5.00	1.00		11/08/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01	File ID:	006F0601.D
Sampled:	10/29/12 14:32	Prepared:	10/31/12 14:51	Analyzed:	10/31/12 14:51
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J30412 Sequence: 2K30705 Calibration: 2216001 Instrument: GL-GCVOA2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05204	104	50 - 150	

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03	File ID:	007F0701.D
Sampled:	10/29/12 11:49	Prepared:	10/31/12 15:30	Analyzed:	10/31/12 15:30
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J30412 Sequence: 2K30705 Calibration: 2216001 Instrument: GL-GCVOA2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04854	97.1	50 - 150	

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01	File ID:	008F0801.D
Sampled:	10/30/12 14:42	Prepared:	10/31/12 16:08	Analyzed:	10/31/12 16:08
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J30412 Sequence: 2K30705 Calibration: 2216001 Instrument: GL-GCVOA2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05187	104	50 - 150	

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03	File ID:	009F0901.D
Sampled:	10/30/12 12:04	Prepared:	10/31/12 16:47	Analyzed:	10/31/12 16:47
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2J30412 Sequence: 2K30705 Calibration: 2216001 Instrument: GL-GCVOA2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04875	97.5	50 - 150	

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02	File ID:	007F0701.D
Sampled:	11/07/12 14:33	Prepared:	11/08/12 20:05	Analyzed:	11/08/12 20:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

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

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04316	86.3	50 - 150	Y

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30705	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K30705-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 10/31/12 12:56		
Bromofluorobenzene	0.05000	95.7	80 - 120	20.293	20.293	0.0000	+/-0.210	
Blank (2J30412-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/31/12 13:35		
Bromofluorobenzene	0.05000	111	50 - 150	20.296	20.293	0.0030	+/-0.210	
LCS (2J30412-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/31/12 14:13		
Bromofluorobenzene	0.05000	168	50 - 150	20.303	20.293	0.0100	+/-0.210	*
GW0879 (1210274-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 10/31/12 14:51		
Bromofluorobenzene	0.05000	104	50 - 150	20.306	20.293	0.0130	+/-0.210	
GW0880 (1210274-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 10/31/12 15:30		
Bromofluorobenzene	0.05000	97.1	50 - 150	20.306	20.293	0.0130	+/-0.210	
GW0876 (1210294-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 10/31/12 16:08		
Bromofluorobenzene	0.05000	104	50 - 150	20.31	20.293	0.0170	+/-0.210	
GW0877 (1210294-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 10/31/12 16:47		
Bromofluorobenzene	0.05000	97.5	50 - 150	20.31	20.293	0.0170	+/-0.210	
Calibration Check (2K30705-CCV2) ug/mL				Lab File ID: 010F1001.D		Analyzed: 10/31/12 17:25		
Bromofluorobenzene	0.05000	92.9	80 - 120	20.313	20.293	0.0200	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31717	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31717-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/08/12 17:34		
Bromofluorobenzene	0.05000	75.9	80 - 120	20.31	20.31	0.0000	+/-0.210	*
Blank (2K08020-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/08/12 18:12		
Bromofluorobenzene	0.05000	89.5	50 - 150	20.316	20.31	0.0060	+/-0.210	
LCS (2K08020-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/08/12 18:50		
Bromofluorobenzene	0.05000	71.8	50 - 150	20.32	20.31	0.0100	+/-0.210	
LCS Dup (2K08020-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 11/08/12 19:28		
Bromofluorobenzene	0.05000	75.2	50 - 150	20.32	20.31	0.0100	+/-0.210	
GW0878 (1211075-02) mg/L				Lab File ID: 007F0701.D		Analyzed: 11/08/12 20:05		
Bromofluorobenzene	0.05000	86.3	50 - 150	20.32	20.31	0.0100	+/-0.210	
Calibration Check (2K31717-CCV2) ug/mL				Lab File ID: 008F0801.D		Analyzed: 11/08/12 20:43		
Bromofluorobenzene	0.05000	66.0	80 - 120	20.32	20.31	0.0100	+/-0.210	*

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30412	Laboratory ID:	2J30412-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	0.5217	104	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08020	Laboratory ID:	2K08020-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	0.4017	80.3	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.3996	79.9	0.547	30	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J30412 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/31/12 14:51	5.00	5.00
GW0880	1210274-03	10/31/12 15:30	5.00	5.00
GW0876	1210294-01	10/31/12 16:08	5.00	5.00
GW0877	1210294-03	10/31/12 16:47	5.00	5.00
Blank	2J30412-BLK1	10/31/12 13:35	5.00	5.00
LCS	2J30412-BS1	10/31/12 14:13	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K08020 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/08/12 20:05	5.00	5.00
Blank	2K08020-BLK1	11/08/12 18:12	5.00	5.00
LCS	2K08020-BS1	11/08/12 18:50	5.00	5.00
LCS Dup	2K08020-BSD1	11/08/12 19:28	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_068
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2J30412-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/31/12 13:35
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2J30412 Sequence: 2K30705 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.0775**	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05530	111	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J30412-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/31/12 14:13
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2J30412	Sequence:	2K30705	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5217**	0.0500	0.100	0.150	B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.08408	168	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08020-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	11/08/12 18:12
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K08020	Sequence:	2K31717	Calibration:	2216001	Instrument:	GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04476	89.5	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08020-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	11/08/12 18:50
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K08020	Sequence:	2K31717	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4017**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03588	71.8	50 - 150	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08020-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	11/08/12 19:28
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K08020	Sequence:	2K31717	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.3996**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03761	75.2	50 - 150	Y

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12_15:05	7/31/12_18:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	0.1	2233630	0.2	1477410	0.5	1120412	1	946984	2	1011274	5	961363.4
Bromofluorobenzene	0.01	1563200	0.02	941550	0.05	566820	0.1	481890	0.2	490520	0.5	412342

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12 15:05	7/31/12 18:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1291846	38.82256	7.807	0.017641	0.9992676		0.995	
Bromofluorobenzene	742720.3	59.74288	20.3135	9.003825E-03	0.9969704		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2H21611	Injection Date:	08/02/12
Lab Sample ID:	2H21611-ICV1	Injection Time:	14:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4958	1291846	1119582		-0.8	20
Bromofluorobenzene	L	0.05000	0.04848	742720.3	607700		-3.0	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2K30705	Injection Date:	10/31/12
Lab Sample ID:	2K30705-CCV1	Injection Time:	12:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5834	1291846	1284942		16.7	20
Bromofluorobenzene	L	0.05000	0.04784	742720.3	602700		-4.3	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	010F1001.D	Calibration Date:	07/31/12 15:05
Sequence:	2K30705	Injection Date:	10/31/12
Lab Sample ID:	2K30705-CCV2	Injection Time:	17:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4837	1291846	1096890		-3.3	20
Bromofluorobenzene	L	0.05000	0.04644	742720.3	591580		-7.1	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31717	Injection Date:	11/08/12
Lab Sample ID:	2K31717-CCV1	Injection Time:	17:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4387	1291846	1011842		-12.3	20
Bromofluorobenzene	L	0.05000	0.03797	742720.3	524620		-24.1	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	008F0801.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31717	Injection Date:	11/08/12
Lab Sample ID:	2K31717-CCV2	Injection Time:	20:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.3570	1291846	857780		-28.6	20 *
Bromofluorobenzene	L	0.05000	0.03300	742720.3	485260		-34.0	20 *

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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
GW0879	10/29/12 14:32	10/30/12 08:40	10/31/12 14:51	N/A	14.00	10/31/12 14:51	1.97	14.00	
GW0880	10/29/12 11:49	10/30/12 08:40	10/31/12 15:30	N/A	14.00	10/31/12 15:30	2.11	14.00	
GW0876	10/30/12 14:42	10/31/12 08:30	10/31/12 16:08	N/A	14.00	10/31/12 16:08	1.02	14.00	
GW0877	10/30/12 12:04	10/31/12 08:30	10/31/12 16:47	N/A	14.00	10/31/12 16:47	1.15	14.00	
GW0878	11/07/12 14:33	11/08/12 08:35	11/08/12 20:05	N/A	14.00	11/08/12 20:05	1.19	14.00	

Data for SW6010B Forms

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J30419	50.00/50.00	50.0	50.0	1.00		10/30/12
1210274-03 [GW0880]	2J30419	50.00/50.00	50.0	50.0	1.00		10/30/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-02 [GW0879]	2J31009	50.00/50.00	50.0	50.0	1.00		10/31/12
1210274-04 [GW0880]	2J31009	50.00/50.00	50.0	50.0	1.00		10/31/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-02 [GW0876]	2K02003	50.00/50.00	50.0	50.0	1.00		11/02/12
1210294-04 [GW0877]	2K02003	50.00/50.00	50.0	50.0	1.00		11/02/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-01 [GW0876]	2K02011	50.00/50.00	50.0	50.0	1.00		11/02/12
1210294-03 [GW0877]	2K02011	50.00/50.00	50.0	50.0	1.00		11/02/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-03 [GW0878]	2K13008	50.00/50.00	50.0	50.0	1.00		11/13/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K13027	50.00/50.00	50.0	50.0	1.00		11/13/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01
Sampled:	10/29/12 14:32	Received:	10/30/12 08:40
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**54500**	1000	2000	5000	1		SW6010B	2J30419	10/31/12 14:18
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J30419	10/31/12 14:18
7439-95-4	Magnesium	**6700**	1000	3000	5000	1		SW6010B	2J30419	10/31/12 14:18
7440-09-7	Potassium	**2720**	1000	3000	5000	1	J	SW6010B	2J30419	10/31/12 14:18
7440-23-5	Sodium	**28700**	1000	3000	5000	1		SW6010B	2J30419	10/31/12 14:18

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-02
Sampled:	10/29/12 14:32	Received:	10/30/12 08:40
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J31009	10/31/12 14:50
7439-96-5	Manganese (dissolved)	**49.2**	3.00	6.00	15.0	1		SW6010B	2J31009	10/31/12 14:50

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03
Sampled:	10/29/12 11:49	Received:	10/30/12 08:40
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**35300**	1000	2000	5000	1		SW6010B	2J30419	10/31/12 14:22
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2J30419	10/31/12 14:22
7439-95-4	Magnesium	**4380**	1000	3000	5000	1	J	SW6010B	2J30419	10/31/12 14:22
7440-09-7	Potassium	**2210**	1000	3000	5000	1	J	SW6010B	2J30419	10/31/12 14:22
7440-23-5	Sodium	**23900**	1000	3000	5000	1		SW6010B	2J30419	10/31/12 14:22

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-04
Sampled:	10/29/12 11:49	Received:	10/30/12 08:40
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2J31009	10/31/12 15:09
7439-96-5	Manganese (dissolved)	**5.44**	3.00	6.00	15.0	1	J	SW6010B	2J31009	10/31/12 15:09

ANALYSIS DATA SHEET

GW0876

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 10/30/12 14:42
% Solids: 0.00

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 1210294-01
Received: 10/31/12 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**52200**	1000	2000	5000	1		SW6010B	2K02011	11/05/12 12:46
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K02011	11/05/12 12:46
7439-95-4	Magnesium	**6960**	1000	3000	5000	1		SW6010B	2K02011	11/05/12 12:46
7440-09-7	Potassium	**3040**	1000	3000	5000	1	J	SW6010B	2K02011	11/05/12 12:46
7440-23-5	Sodium	**31800**	1000	3000	5000	1		SW6010B	2K02011	11/05/12 12:46

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-02
Sampled:	10/30/12 14:42	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:27
7439-96-5	Manganese (dissolved)	**37.1**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 13:27

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03
Sampled:	10/30/12 12:04	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**57200**	1000	2000	5000	1		SW6010B	2K02011	11/05/12 12:51
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K02011	11/05/12 12:51
7439-95-4	Magnesium	**7340**	1000	3000	5000	1		SW6010B	2K02011	11/05/12 12:51
7440-09-7	Potassium	**3130**	1000	3000	5000	1	J	SW6010B	2K02011	11/05/12 12:51
7440-23-5	Sodium	**33400**	1000	3000	5000	1		SW6010B	2K02011	11/05/12 12:51

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-04
Sampled:	10/30/12 12:04	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:32
7439-96-5	Manganese (dissolved)	**59.8**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 13:32

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02
Sampled:	11/07/12 14:33	Received:	11/08/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**53800**	1000	2000	5000	1		SW6010B	2K13027	11/14/12 12:06
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K13027	11/14/12 12:06
7439-95-4	Magnesium	**7160**	1000	3000	5000	1		SW6010B	2K13027	11/14/12 12:06
7440-09-7	Potassium	**2680**	1000	3000	5000	1	J	SW6010B	2K13027	11/14/12 12:06
7440-23-5	Sodium	**24300**	1000	3000	5000	1		SW6010B	2K13027	11/14/12 12:06

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-03
Sampled:	11/07/12 14:33	Received:	11/08/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 12:48
7439-96-5	Manganese (dissolved)	**5.54**	3.00	6.00	15.0	1	J	SW6010B	2K13008	11/13/12 12:48

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2J30419-BLK1
% Solids:

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2J30419	10/31/12 12:20
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2J30419	10/31/12 12:20
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2J30419	10/31/12 12:20
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2J30419	10/31/12 12:20
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2J30419	10/31/12 12:20

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J30419-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**4840**	1000	2000	5000	1	J	SW6010B	2J30419	10/31/12 12:24
7439-92-1	Lead	**242.7**	1.50	3.00	3.00	1		SW6010B	2J30419	10/31/12 12:24
7439-95-4	Magnesium	**4592**	1000	3000	5000	1	J	SW6010B	2J30419	10/31/12 12:24
7440-09-7	Potassium	**4676**	1000	3000	5000	1	J	SW6010B	2J30419	10/31/12 12:24
7440-23-5	Sodium	**4996**	1000	3000	5000	1	J	SW6010B	2J30419	10/31/12 12:24

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31009-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	30.0	60.0	100	1	U	SW6010B	2J31009	10/31/12 14:39
7439-96-5	Manganese (dissolved)	ND	3.00	6.00	15.0	1	U	SW6010B	2J31009	10/31/12 14:39

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31009-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1050**	30.0	60.0	100	1		SW6010B	2J31009	10/31/12 14:44
7439-96-5	Manganese (dissolved)	**510.9**	3.00	6.00	15.0	1		SW6010B	2J31009	10/31/12 14:44

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31009-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	150	300	500	5	U	SW6010B	2J31009	10/31/12 15:04
7439-96-5	Manganese (dissolved)	**54.92**	15.0	30.0	75.0	5	J D	SW6010B	2J31009	10/31/12 15:04

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_068

Project: Kirtland AFB 2011

Laboratory ID: 2J31009-MS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1032**	30.0	60.0	100	1		SW6010B	2J31009	10/31/12 14:55
7439-96-5	Manganese (dissolved)	**542.4**	3.00	6.00	15.0	1		SW6010B	2J31009	10/31/12 14:55

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_068

Project: Kirtland AFB 2011

Laboratory ID: 2J31009-MSD1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1046**	30.0	60.0	100	1		SW6010B	2J31009	10/31/12 14:59
7439-96-5	Manganese (dissolved)	**552.1**	3.00	6.00	15.0	1		SW6010B	2J31009	10/31/12 14:59

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:16
7439-96-5	Manganese (dissolved)	ND	3.00	6.00	15.0	1	U	SW6010B	2K02003	11/02/12 13:16

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1116**	30.0	60.0	100	1		SW6010B	2K02003	11/02/12 13:21
7439-96-5	Manganese (dissolved)	**557.8**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 13:21

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K02011-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2K02011	11/05/12 12:36
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2K02011	11/05/12 12:36
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2K02011	11/05/12 12:36
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2K02011	11/05/12 12:36
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2K02011	11/05/12 12:36

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K02011-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**5086**	1000	2000	5000	1		SW6010B	2K02011	11/05/12 12:40
7439-92-1	Lead	**242.5**	1.50	3.00	3.00	1		SW6010B	2K02011	11/05/12 12:40
7439-95-4	Magnesium	**4963**	1000	3000	5000	1	J	SW6010B	2K02011	11/05/12 12:40
7440-09-7	Potassium	**4857**	1000	3000	5000	1	J	SW6010B	2K02011	11/05/12 12:40
7440-23-5	Sodium	**5013**	1000	3000	5000	1		SW6010B	2K02011	11/05/12 12:40

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K13008-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 12:37
7439-96-5	Manganese (dissolved)	ND	3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 12:37

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K13008-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1030**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 12:42
7439-96-5	Manganese (dissolved)	**495.4**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 12:42

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K13027-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2K13027	11/14/12 11:55
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2K13027	11/14/12 11:55
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2K13027	11/14/12 11:55
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2K13027	11/14/12 11:55
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2K13027	11/14/12 11:55

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K13027-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**5050**	1000	2000	5000	1		SW6010B	2K13027	11/14/12 12:00
7439-92-1	Lead	**242.3**	1.50	3.00	3.00	1		SW6010B	2K13027	11/14/12 12:00
7439-95-4	Magnesium	**5007**	1000	3000	5000	1		SW6010B	2K13027	11/14/12 12:00
7440-09-7	Potassium	**4878**	1000	3000	5000	1	J	SW6010B	2K13027	11/14/12 12:00
7440-23-5	Sodium	**5024**	1000	3000	5000	1		SW6010B	2K13027	11/14/12 12:00

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2306002
Sequence: 2K30606

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K30606-ICV1	Calcium	50000	51940	104	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10410	104	ug/L	+/- 10.00%
	Lead	1000	958.6	95.9	ug/L	+/- 10.00%
	Magnesium	50000	51480	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1036	104	ug/L	+/- 10.00%
	Potassium	10000	10080	101	ug/L	+/- 10.00%
	Sodium	50000	49560	99.1	ug/L	+/- 10.00%
2K30606-CCV1	Calcium	50000	53010	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10390	104	ug/L	+/- 10.00%
	Lead	1000	979.0	97.9	ug/L	+/- 10.00%
	Magnesium	50000	49360	98.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1088	109	ug/L	+/- 10.00%
	Potassium	10000	10000	100	ug/L	+/- 10.00%
	Sodium	50000	53660	107	ug/L	+/- 10.00%
2K30606-CCV2	Calcium	50000	49110	98.2	ug/L	+/- 10.00%
	Lead	1000	972.6	97.3	ug/L	+/- 10.00%
	Magnesium	50000	46330	92.7	ug/L	+/- 10.00%
	Potassium	10000	9601	96.0	ug/L	+/- 10.00%
	Sodium	50000	52120	104	ug/L	+/- 10.00%
2K30606-CCV3	Calcium	50000	47710	95.4	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9652	96.5	ug/L	+/- 10.00%
	Lead	1000	970.1	97.0	ug/L	+/- 10.00%
	Magnesium	50000	45240	90.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	992.7	99.3	ug/L	+/- 10.00%
	Potassium	10000	9458	94.6	ug/L	+/- 10.00%
	Sodium	50000	51000	102	ug/L	+/- 10.00%
2K30606-CCV4	Iron (dissolved)	10000	9768	97.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1001	100	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_068
Project: Kirtland AFB 2011
Calibration: 2310002
Sequence: 2K31003

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31003-ICV1	Iron (dissolved)	10000	10380	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	979.0	97.9	ug/L	+/- 10.00%
2K31003-CCV1	Iron (dissolved)	10000	10310	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%
2K31003-CCV3	Iron (dissolved)	10000	10350	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	989.7	99.0	ug/L	+/- 10.00%
2K31003-CCV4	Iron (dissolved)	10000	10370	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1028	103	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2310003
Sequence: 2K31013

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31013-ICV1	Calcium	50000	51270	103	ug/L	+/- 10.00%
	Lead	1000	969.1	96.9	ug/L	+/- 10.00%
	Magnesium	50000	51150	102	ug/L	+/- 10.00%
	Potassium	10000	10030	100	ug/L	+/- 10.00%
	Sodium	50000	52230	104	ug/L	+/- 10.00%
2K31013-CCV1	Calcium	50000	51840	104	ug/L	+/- 10.00%
	Lead	1000	980.8	98.1	ug/L	+/- 10.00%
	Magnesium	50000	51750	103	ug/L	+/- 10.00%
	Potassium	10000	10240	102	ug/L	+/- 10.00%
	Sodium	50000	53200	106	ug/L	+/- 10.00%
2K31013-CCV2	Calcium	50000	50930	102	ug/L	+/- 10.00%
	Lead	1000	978.5	97.8	ug/L	+/- 10.00%
	Magnesium	50000	49540	99.1	ug/L	+/- 10.00%
	Potassium	10000	10050	100	ug/L	+/- 10.00%
	Sodium	50000	51580	103	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2319005
Sequence: 2K31906

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31906-ICV1	Iron (dissolved)	10000	10750	108	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1019	102	ug/L	+/- 10.00%
2K31906-CCV1	Iron (dissolved)	10000	9802	98.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	949.0	94.9	ug/L	+/- 10.00%
2K31906-CCV2	Iron (dissolved)	10000	9912	99.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	968.1	96.8	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_068
Project: Kirtland AFB 2011
Calibration: 2319004
Sequence: 2K31912

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31912-ICV1	Calcium	50000	51520	103	ug/L	+/- 10.00%
	Lead	1000	962.1	96.2	ug/L	+/- 10.00%
	Magnesium	50000	51110	102	ug/L	+/- 10.00%
	Potassium	10000	10050	101	ug/L	+/- 10.00%
	Sodium	50000	51880	104	ug/L	+/- 10.00%
2K31912-CCV1	Calcium	50000	50790	102	ug/L	+/- 10.00%
	Lead	1000	968.0	96.8	ug/L	+/- 10.00%
	Magnesium	50000	49840	99.7	ug/L	+/- 10.00%
	Potassium	10000	9688	96.9	ug/L	+/- 10.00%
	Sodium	50000	50820	102	ug/L	+/- 10.00%
2K31912-CCV2	Calcium	50000	51660	103	ug/L	+/- 10.00%
	Lead	1000	958.6	95.9	ug/L	+/- 10.00%
	Magnesium	50000	51200	102	ug/L	+/- 10.00%
	Potassium	10000	9809	98.1	ug/L	+/- 10.00%
	Sodium	50000	51680	103	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2306002

Sequence: 2K30606

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K30606-CRL1	Calcium	2000	2093	105	ug/L	80 - 120
	Iron (dissolved)	60.00	65.06	108	ug/L	80 - 120
	Lead	3.000	3.027	101	ug/L	80 - 120
	Magnesium	3000	3193	106	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.179	103	ug/L	80 - 120
	Potassium	3000	3060	102	ug/L	80 - 120
	Sodium	3000	2877	95.9	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2310002

Sequence: 2K31003

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31003-CRL1	Iron (dissolved)	60.00	63.75	106	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.129	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2310003

Sequence: 2K31013

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31013-CRL1	Calcium	2000	1976	98.8	ug/L	80 - 120
	Lead	3.000	3.026	101	ug/L	80 - 120
	Magnesium	3000	2932	97.7	ug/L	80 - 120
	Potassium	3000	2852	95.1	ug/L	80 - 120
	Sodium	3000	2925	97.5	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2319005

Sequence: 2K31906

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31906-CRL1	Iron (dissolved)	60.00	68.75	115	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.555	109	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2319004

Sequence: 2K31912

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31912-CRL1	Calcium	2000	2121	106	ug/L	80 - 120
	Lead	3.000	3.489	116	ug/L	80 - 120
	Magnesium	3000	3209	107	ug/L	80 - 120
	Potassium	3000	3057	102	ug/L	80 - 120
	Sodium	3000	3154	105	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K30606
Calibration: 2306002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K30606-ICB1	Calcium	2.220	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.3921	30.0	100	ug/L	U	SW6010B
	Lead	0.4312	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.880	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.008680	3.00	15.0	ug/L	U	SW6010B
	Potassium	23.71	1000	5000	ug/L	U	SW6010B
	Sodium	5.080	1000	5000	ug/L	U	SW6010B
2K30606-CCB1	Calcium	2.35	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.21	30.0	100	ug/L	U	SW6010B
	Lead	0.453	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.97	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0720	3.00	15.0	ug/L	U	SW6010B
	Potassium	13.6	1000	5000	ug/L	U	SW6010B
	Sodium	-9.11	1000	5000	ug/L	U	SW6010B
2J30419-BLK1	Calcium	9.86	1000	5000	ug/L	U	SW6010B
	Lead	-0.106	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.25	1000	5000	ug/L	U	SW6010B
	Potassium	30.4	1000	5000	ug/L	U	SW6010B
	Sodium	0.590	1000	5000	ug/L	U	SW6010B
2K30606-CCB2	Calcium	15.3	1000	5000	ug/L	U	SW6010B
	Lead	-0.530	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.6	1000	5000	ug/L	U	SW6010B
	Potassium	2.96	1000	5000	ug/L	U	SW6010B
	Sodium	11.2	1000	5000	ug/L	U	SW6010B
2K30606-CCB3	Calcium	5.77	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.462	30.0	100	ug/L	U	SW6010B
	Lead	0.380	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.04	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.133	3.00	15.0	ug/L	U	SW6010B
	Potassium	19.7	1000	5000	ug/L	U	SW6010B
	Sodium	8.92	1000	5000	ug/L	U	SW6010B
2J31009-BLK1	Iron (dissolved)	0.810	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0607	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K30606
Calibration: 2306002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K30606-CCB4	Iron (dissolved)	-2.14	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0367	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31003
Calibration: 2310002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31003-ICB1	Iron (dissolved)	-0.5396	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.02690	3.00	15.0	ug/L	U	SW6010B
2K31003-CCB1	Iron (dissolved)	16.2	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.107	3.00	15.0	ug/L	U	SW6010B
2K31003-CCB3	Iron (dissolved)	-2.65	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0415	3.00	15.0	ug/L	U	SW6010B
2K02003-BLK1	Iron (dissolved)	-0.831	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.00705	3.00	15.0	ug/L	U	SW6010B
2K31003-CCB4	Iron (dissolved)	-3.00	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.112	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31013
Calibration: 2310003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31013-ICB1	Calcium	15.44	1000	5000	ug/L	U	SW6010B
	Lead	0.5555	1.50	3.00	ug/L	U	SW6010B
	Magnesium	22.40	1000	5000	ug/L	U	SW6010B
	Potassium	5.360	1000	5000	ug/L	U	SW6010B
	Sodium	4.410	1000	5000	ug/L	U	SW6010B
2K31013-CCB1	Calcium	11.6	1000	5000	ug/L	U	SW6010B
	Lead	-0.0233	1.50	3.00	ug/L	U	SW6010B
	Magnesium	16.6	1000	5000	ug/L	U	SW6010B
	Potassium	6.72	1000	5000	ug/L	U	SW6010B
	Sodium	16.1	1000	5000	ug/L	U	SW6010B
2K02011-BLK1	Calcium	8.43	1000	5000	ug/L	U	SW6010B
	Lead	-0.0701	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.02	1000	5000	ug/L	U	SW6010B
	Potassium	6.42	1000	5000	ug/L	U	SW6010B
	Sodium	14.9	1000	5000	ug/L	U	SW6010B
2K31013-CCB2	Calcium	2.55	1000	5000	ug/L	U	SW6010B
	Lead	0.0909	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.08	1000	5000	ug/L	U	SW6010B
	Potassium	31.9	1000	5000	ug/L	U	SW6010B
	Sodium	15.9	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31906
Calibration: 2319005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31906-ICB1	Iron (dissolved)	12.12	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.01803	3.00	15.0	ug/L	U	SW6010B
2K31906-CCB1	Iron (dissolved)	-0.00680	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0496	3.00	15.0	ug/L	U	SW6010B
2K13008-BLK1	Iron (dissolved)	4.26	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0355	3.00	15.0	ug/L	U	SW6010B
2K31906-CCB2	Iron (dissolved)	3.00	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.104	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31912
Calibration: 2319004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31912-ICB1	Calcium	20.44	1000	5000	ug/L	U	SW6010B
	Lead	-0.2140	1.50	3.00	ug/L	U	SW6010B
	Magnesium	24.84	1000	5000	ug/L	U	SW6010B
	Potassium	-15.00	1000	5000	ug/L	U	SW6010B
	Sodium	7.820	1000	5000	ug/L	U	SW6010B
2K31912-CCB1	Calcium	4.98	1000	5000	ug/L	U	SW6010B
	Lead	-0.361	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-6.82	1000	5000	ug/L	U	SW6010B
	Potassium	7.88	1000	5000	ug/L	U	SW6010B
	Sodium	11.5	1000	5000	ug/L	U	SW6010B
2K13027-BLK1	Calcium	11.9	1000	5000	ug/L	U	SW6010B
	Lead	0.361	1.50	3.00	ug/L	U	SW6010B
	Magnesium	15.5	1000	5000	ug/L	U	SW6010B
	Potassium	9.88	1000	5000	ug/L	U	SW6010B
	Sodium	10.0	1000	5000	ug/L	U	SW6010B
2K31912-CCB2	Calcium	7.89	1000	5000	ug/L	U	SW6010B
	Lead	0.0606	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.70	1000	5000	ug/L	U	SW6010B
	Potassium	1.19	1000	5000	ug/L	U	SW6010B
	Sodium	95.9	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2306002
Sequence: 2K30606

Lab Sample ID	Analyte	True	Found	%R	Units
2K30606-IFA1	Calcium	500000	458,080.00	91.6	ug/L
	Iron (dissolved)	200000	190,170.00	95.1	ug/L
	Lead		6.15		ug/L
	Magnesium	500000	451,570.00	90.3	ug/L
	Manganese (dissolved)		-4.96		ug/L
	Potassium		-16.71		ug/L
	Sodium		30.61		ug/L
2K30606-IFB1	Calcium	500000	458,400.00	91.7	ug/L
	Iron (dissolved)	200000	193,210.00	96.6	ug/L
	Lead	50.00	55.60	111	ug/L
	Magnesium	500000	463,880.00	92.8	ug/L
	Manganese (dissolved)	500.0	472.18	94.4	ug/L
	Potassium		4.91		ug/L
	Sodium		38.28		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2310002

Sequence: 2K31003

Lab Sample ID	Analyte	True	Found	%R	Units
2K31003-IFA1	Iron (dissolved)	200000	203,540.00	102	ug/L
	Manganese (dissolved)		-4.61		ug/L
2K31003-IFB1	Iron (dissolved)	200000	202,530.00	101	ug/L
	Manganese (dissolved)	500.0	487.22	97.4	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2310003
Sequence: 2K31013

Lab Sample ID	Analyte	True	Found	%R	Units
2K31013-IFA1	Calcium	500000	498,960.00	99.8	ug/L
	Lead		3.62		ug/L
	Magnesium	500000	508,040.00	102	ug/L
	Potassium		-29.38		ug/L
	Sodium		50.00		ug/L
2K31013-IFB1	Calcium	500000	510,960.00	102	ug/L
	Lead	50.00	47.11	94.2	ug/L
	Magnesium	500000	519,290.00	104	ug/L
	Potassium		-36.86		ug/L
	Sodium		54.05		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2319005

Sequence: 2K31906

Lab Sample ID	Analyte	True	Found	%R	Units
2K31906-IFA1	Iron (dissolved)	200000	194,630.00	97.3	ug/L
	Manganese (dissolved)		-3.84		ug/L
2K31906-IFB1	Iron (dissolved)	200000	194,450.00	97.2	ug/L
	Manganese (dissolved)	500.0	465.12	93.0	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2319004
Sequence: 2K31912

Lab Sample ID	Analyte	True	Found	%R	Units
2K31912-IFA1	Calcium	500000	479,200.00	95.8	ug/L
	Lead		1.07		ug/L
	Magnesium	500000	489,750.00	98.0	ug/L
	Potassium		-12.54		ug/L
	Sodium		23.77		ug/L
2K31912-IFB1	Calcium	500000	502,660.00	101	ug/L
	Lead	50.00	41.77	83.5	ug/L
	Magnesium	500000	503,040.00	101	ug/L
	Potassium		-46.96		ug/L
	Sodium		22.38		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0879

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2J31009

% Solids:

Source Sample Name: **1210274-02**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	1032	103		80 - 120
Manganese (dissolved)	500.0	49.20	542.4	98.6		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1046	105	1.36		20	80 - 120
Manganese (dissolved)	500.0	552.1	101	1.77		20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30419	Laboratory ID:	2J30419-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	4840	96.8	80 - 120
Lead	250.0	242.7	97.1	80 - 120
Magnesium	5000	4592	91.8	80 - 120
Potassium	5000	4676	93.5	80 - 120
Sodium	5000	4996	99.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31009	Laboratory ID:	2J31009-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	1050	105	80 - 120
Manganese (dissolved)	500.0	510.9	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K02003	Laboratory ID:	2K02003-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1116	112	80 - 120
Manganese (dissolved)	500.0	557.8	112	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K02011	Laboratory ID:	2K02011-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	5086	102	80 - 120
Lead	250.0	242.5	97.0	80 - 120
Magnesium	5000	4963	99.3	80 - 120
Potassium	5000	4857	97.1	80 - 120
Sodium	5000	5013	100	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13008	Laboratory ID:	2K13008-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	1030	103	80 - 120
Manganese (dissolved)	500.0	495.4	99.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13027	Laboratory ID:	2K13027-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	5050	101	80 - 120
Lead	250.0	242.3	96.9	80 - 120
Magnesium	5000	5007	100	80 - 120
Potassium	5000	4878	97.6	80 - 120
Sodium	5000	5024	100	80 - 120

SERIAL DILUTION

SW6010B

GW0879

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K30606
Preparation: MET_3005A

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31009-DUP1
Lab Source ID: 1210274-02
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	49.195	54.925	11.6		SW6010B	10.00

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_068

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_068

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_068

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_068

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_068

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_068

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	589.6	0.0000000				
Sodium	589.6	0.0000000				
Sodium	589.6	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_068

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 12/30/2011

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J30419 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/30/12 11:08	50.00	50.00
GW0880	1210274-03	10/30/12 11:08	50.00	50.00
Blank	2J30419-BLK1	10/30/12 11:08	50.00	50.00
LCS	2J30419-BS1	10/30/12 11:08	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31009 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-02	10/31/12 08:44	50.00	50.00
GW0880	1210274-04	10/31/12 08:44	50.00	50.00
Blank	2J31009-BLK1	10/31/12 08:44	50.00	50.00
LCS	2J31009-BS1	10/31/12 08:44	50.00	50.00
GW0879	2J31009-DUP1	10/31/12 08:44	50.00	50.00
GW0879	2J31009-MS1	10/31/12 08:44	50.00	50.00
GW0879	2J31009-MSD1	10/31/12 08:44	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K02003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-02	11/02/12 08:47	50.00	50.00
GW0877	1210294-04	11/02/12 08:47	50.00	50.00
Blank	2K02003-BLK1	11/02/12 08:47	50.00	50.00
LCS	2K02003-BS1	11/02/12 08:47	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K02011 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-01	11/02/12 11:04	50.00	50.00
GW0877	1210294-03	11/02/12 11:04	50.00	50.00
Blank	2K02011-BLK1	11/02/12 11:04	50.00	50.00
LCS	2K02011-BS1	11/02/12 11:04	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K13008 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-03	11/13/12 08:29	50.00	50.00
Blank	2K13008-BLK1	11/13/12 08:29	50.00	50.00
LCS	2K13008-BS1	11/13/12 08:29	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K13027 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/13/12 13:35	50.00	50.00
Blank	2K13027-BLK1	11/13/12 13:35	50.00	50.00
LCS	2K13027-BS1	11/13/12 13:35	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30606	Instrument:	ME-ICP
Calibration:	2306002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K30606-CAL1	103112A-001	10/31/12 09:57
Cal Standard	2K30606-CAL1	103112A-001	10/31/12 09:57
Cal Standard	2K30606-CAL2	103112A-002	10/31/12 10:02
Cal Standard	2K30606-CAL2	103112A-002	10/31/12 10:02
Cal Standard	2K30606-CAL3	103112A-003	10/31/12 10:06
Cal Standard	2K30606-CAL3	103112A-003	10/31/12 10:06
Cal Standard	2K30606-CAL4	103112A-004	10/31/12 10:10
Cal Standard	2K30606-CAL5	103112A-005	10/31/12 10:15
Cal Standard	2K30606-CAL5	103112A-005	10/31/12 10:15
Cal Standard	2K30606-CAL6	103112A-006	10/31/12 10:20
Cal Standard	2K30606-CAL6	103112A-006	10/31/12 10:20
Cal Standard	2K30606-CAL7	103112A-007	10/31/12 10:26
Cal Standard	2K30606-CAL8	103112A-008	10/31/12 10:30
Initial Cal Check	2K30606-ICV1	103112B-001	10/31/12 11:00
Initial Cal Check	2K30606-ICV1	103112B-001	10/31/12 11:00
Initial Cal Blank	2K30606-ICB1	103112B-002	10/31/12 11:07
Initial Cal Blank	2K30606-ICB1	103112B-002	10/31/12 11:07
Instrument RL Check	2K30606-CRL1	103112B-003	10/31/12 11:12
Instrument RL Check	2K30606-CRL1	103112B-003	10/31/12 11:12
Interference Check A	2K30606-IFA1	103112B-010	10/31/12 11:48
Interference Check A	2K30606-IFA1	103112B-010	10/31/12 11:48
Interference Check B	2K30606-IFB1	103112B-011	10/31/12 11:53
Interference Check B	2K30606-IFB1	103112B-011	10/31/12 11:53
Calibration Check	2K30606-CCV1	103112B-013	10/31/12 12:03
Calibration Check	2K30606-CCV1	103112B-013	10/31/12 12:03
Calibration Blank	2K30606-CCB1	103112B-014	10/31/12 12:11
Calibration Blank	2K30606-CCB1	103112B-014	10/31/12 12:11
Blank	2J30419-BLK1	103112B-016	10/31/12 12:20
LCS	2J30419-BS1	103112B-017	10/31/12 12:24
Calibration Check	2K30606-CCV2	103112B-031	10/31/12 13:30
Calibration Blank	2K30606-CCB2	103112B-032	10/31/12 13:38
GW0879	1210274-01	103112B-041	10/31/12 14:18

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30606	Instrument:	ME-ICP
Calibration:	2306002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0880	1210274-03	103112B-042	10/31/12 14:22
Calibration Check	2K30606-CCV3	103112B-043	10/31/12 14:28
Calibration Check	2K30606-CCV3	103112B-043	10/31/12 14:28
Calibration Blank	2K30606-CCB3	103112B-044	10/31/12 14:35
Calibration Blank	2K30606-CCB3	103112B-044	10/31/12 14:35
Blank	2J31009-BLK1	103112B-045	10/31/12 14:39
LCS	2J31009-BS1	103112B-046	10/31/12 14:44
GW0879	1210274-02	103112B-047	10/31/12 14:50
GW0879	2J31009-MS1	103112B-048	10/31/12 14:55
GW0879	2J31009-MSD1	103112B-049	10/31/12 14:59
GW0879	2J31009-DUP1	103112B-050	10/31/12 15:04
GW0880	1210274-04	103112B-051	10/31/12 15:09
Calibration Check	2K30606-CCV4	103112B-060	10/31/12 15:50
Calibration Blank	2K30606-CCB4	103112B-061	10/31/12 15:57

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31003	Instrument:	ME-ICP
Calibration:	2310002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31003-CAL1	110212A-001	11/02/12 09:11
Cal Standard	2K31003-CAL2	110212A-002	11/02/12 09:15
Cal Standard	2K31003-CAL3	110212A-003	11/02/12 09:20
Cal Standard	2K31003-CAL4	110212A-004	11/02/12 09:24
Cal Standard	2K31003-CAL5	110212A-005	11/02/12 09:29
Cal Standard	2K31003-CAL6	110212A-006	11/02/12 09:34
Initial Cal Check	2K31003-ICV1	110212B-001	11/02/12 10:15
Initial Cal Blank	2K31003-ICB1	110212B-002	11/02/12 10:22
Instrument RL Check	2K31003-CRL1	110212B-003	11/02/12 10:27
Interference Check A	2K31003-IFA1	110212B-005	11/02/12 10:38
Interference Check B	2K31003-IFB1	110212B-006	11/02/12 10:42
Calibration Check	2K31003-CCV1	110212B-008	11/02/12 10:52
Calibration Blank	2K31003-CCB1	110212B-009	11/02/12 11:00
Calibration Check	2K31003-CCV3	110212B-034	11/02/12 13:05
Calibration Blank	2K31003-CCB3	110212B-035	11/02/12 13:12
Blank	2K02003-BLK1	110212B-036	11/02/12 13:16
LCS	2K02003-BS1	110212B-037	11/02/12 13:21
GW0876	1210294-02	110212B-038	11/02/12 13:27
GW0877	1210294-04	110212B-039	11/02/12 13:32
Calibration Check	2K31003-CCV4	110212B-052	11/02/12 14:32
Calibration Blank	2K31003-CCB4	110212B-053	11/02/12 14:39

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31013	Instrument:	ME-ICP
Calibration:	2310003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31013-CAL1	11-05-12A-001	11/05/12 10:25
Cal Standard	2K31013-CAL2	11-05-12A-002	11/05/12 10:29
Cal Standard	2K31013-CAL3	11-05-12A-003	11/05/12 10:34
Cal Standard	2K31013-CAL5	11-05-12A-004	11/05/12 10:38
Cal Standard	2K31013-CAL6	11-05-12A-005	11/05/12 10:43
Cal Standard	2K31013-CAL7	11-05-12A-007	11/05/12 10:54
Cal Standard	2K31013-CAL8	11-05-12A-008	11/05/12 10:59
Initial Cal Check	2K31013-ICV1	11-05-12B-001	11/05/12 11:37
Initial Cal Blank	2K31013-ICB1	11-05-12B-002	11/05/12 11:44
Instrument RL Check	2K31013-CRL1	11-05-12B-004	11/05/12 11:54
Interference Check A	2K31013-IFA1	11-05-12B-007	11/05/12 12:09
Interference Check B	2K31013-IFB1	11-05-12B-008	11/05/12 12:14
Calibration Check	2K31013-CCV1	11-05-12B-010	11/05/12 12:24
Calibration Blank	2K31013-CCB1	11-05-12B-011	11/05/12 12:31
Blank	2K02011-BLK1	11-05-12B-012	11/05/12 12:36
LCS	2K02011-BS1	11-05-12B-013	11/05/12 12:40
GW0876	1210294-01	11-05-12B-014	11/05/12 12:46
GW0877	1210294-03	11-05-12B-015	11/05/12 12:51
Calibration Check	2K31013-CCV2	11-05-12B-028	11/05/12 13:50
Calibration Blank	2K31013-CCB2	11-05-12B-029	11/05/12 13:58

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31906	Instrument:	ME-ICP
Calibration:	2319005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31906-CAL1	111312A-001	11/13/12 09:19
Cal Standard	2K31906-CAL2	111312A-002	11/13/12 09:23
Cal Standard	2K31906-CAL3	111312A-003	11/13/12 09:27
Cal Standard	2K31906-CAL4	111312A-004	11/13/12 09:32
Cal Standard	2K31906-CAL5	111312A-005	11/13/12 09:37
Cal Standard	2K31906-CAL6	111312A-006	11/13/12 09:42
Initial Cal Check	2K31906-ICV1	111312B-001	11/13/12 10:23
Initial Cal Blank	2K31906-ICB1	111312B-002	11/13/12 10:31
Instrument RL Check	2K31906-CRL1	111312B-003	11/13/12 10:36
Interference Check A	2K31906-IFA1	111312B-006	11/13/12 10:54
Interference Check B	2K31906-IFB1	111312B-007	11/13/12 12:14
Calibration Check	2K31906-CCV1	111312B-009	11/13/12 12:26
Calibration Blank	2K31906-CCB1	111312B-010	11/13/12 12:33
Blank	2K13008-BLK1	111312B-011	11/13/12 12:37
LCS	2K13008-BS1	111312B-012	11/13/12 12:42
GW0878	1211075-03	111312B-013	11/13/12 12:48
Calibration Check	2K31906-CCV2	111312B-026	11/13/12 13:48
Calibration Blank	2K31906-CCB2	111312B-027	11/13/12 13:56

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31912	Instrument:	ME-ICP
Calibration:	2319004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31912-CAL1	11-14-12A-001	11/14/12 09:59
Cal Standard	2K31912-CAL2	11-14-12A-002	11/14/12 10:03
Cal Standard	2K31912-CAL3	11-14-12A-003	11/14/12 10:07
Cal Standard	2K31912-CAL5	11-14-12A-005	11/14/12 10:17
Cal Standard	2K31912-CAL6	11-14-12A-006	11/14/12 10:21
Cal Standard	2K31912-CAL7	11-14-12A-007	11/14/12 10:27
Cal Standard	2K31912-CAL8	11-14-12A-008	11/14/12 10:31
Initial Cal Check	2K31912-ICV1	11-14-12B-001	11/14/12 11:00
Initial Cal Blank	2K31912-ICB1	11-14-12B-002	11/14/12 11:07
Instrument RL Check	2K31912-CRL1	11-14-12B-003	11/14/12 11:12
Interference Check A	2K31912-IFA1	11-14-12B-006	11/14/12 11:28
Interference Check B	2K31912-IFB1	11-14-12B-007	11/14/12 11:33
Calibration Check	2K31912-CCV1	11-14-12B-009	11/14/12 11:43
Calibration Blank	2K31912-CCB1	11-14-12B-010	11/14/12 11:51
Blank	2K13027-BLK1	11-14-12B-011	11/14/12 11:55
LCS	2K13027-BS1	11-14-12B-012	11/14/12 12:00
GW0878	1211075-02	11-14-12B-013	11/14/12 12:06
Calibration Check	2K31912-CCV2	11-14-12B-019	11/14/12 12:34
Calibration Blank	2K31912-CCB2	11-14-12B-020	11/14/12 12:42

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2306002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/31/12 9:57 10/31/12 10:30

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
Aluminum	0	0	5000	3.1358E-05	10000	3.1177E-05			500000	3.0942E-05		
Antimony	0	0	100	0.0004703	1000	0.0005259					10000	5.2268E-04
Arsenic	0	0	100	0.0002285	1000	2.5865E-04					10000	2.5296E-04
Barium	0	0	50	0.0081526	1000	0.007938	5000	8.168801E-03				
Beryllium	0	0	100	0.0026132	1000	0.002626					10000	0.0025531
Boron	0	0	50	0.0000182	1000	1.831E-05					5000	1.8346E-05
Cadmium	0	0	100	0.018102	1000	0.01823					10000	0.017306
Calcium	0	0	1100	6.801818E-05	50000	6.6608E-05					10000	
Chromium	0	0	100	0.0000576	1000	5.447E-05					10000	5.4983E-05
Cobalt	0	0	100	0.0051898	1000	0.0050998					10000	0.0051703
Copper	0	0	100	0.0000601	1000	5.563E-05					10000	5.5658E-05
Iron	0	0	5100	2.621569E-05	10000	2.5347E-05			500000	2.4368E-05	10000	
Lead	0	0	100	0.0013361	1000	0.0012952					10000	0.0013307
Magnesium	0	0	5100		50000	2.4952E-06			500000	2.5254E-06	10000	
Manganese	0	0	100	0.0003259	1000	3.1445E-04	10000	3.0055E-04			10000	
Molybdenum	0	0	100	0.0038585	1000	0.0039972					10000	0.0039574
Nickel	0	0	100	0.0026113	1000	0.0025958					10000	0.0026072
Potassium	0	0	1000	1.842E-05	10000	2.0034E-05						
Selenium	0	0	100	0.00039	1000	3.9808E-04					10000	3.8804E-04
Silver	0	0	20	0.0000835	500	7.918E-05	2000	8.2345E-05				
Sodium	0	0	1000		50000	3.4952E-05						
Strontium	0	0	100	0.002042	1000	0.002046					10000	0.002032
Thallium	0	0	100	0.0004944	1000	5.0186E-04					10000	5.0826E-04
Tin	0	0	50	0.001337	1000	0.0013876					5000	1.38292E-03
Titanium	0	0	100	0.0002257	1000	2.2509E-04					10000	2.2799E-04
Vanadium	0	0	100	0.0000531	1000	5.195E-05					10000	5.184E-05
Zinc	0	0	100	0.0074324	1000	0.0074891					10000	0.0073596
Aluminum	0	0	5000	3.1358E-05	10000	3.1177E-05			500000	3.0942E-05		
Antimony	0	0	100	0.0004703	1000	0.0005259					10000	5.2268E-04
Arsenic	0	0	100	0.0002285	1000	2.5865E-04					10000	2.5296E-04
Barium	0	0	50	0.0081526	1000	0.007938	5000	8.168801E-03				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2306002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/31/12 9:57 10/31/12 10:30

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
Beryllium	0	0	100	0.0026132	1000	0.002626					10000	0.0025531
Boron	0	0	50	0.0000182	1000	1.831E-05					5000	1.8346E-05
Cadmium	0	0	100	0.018102	1000	0.01823					10000	0.017306
Calcium	0	0	1100	6.801818E-05	50000	6.6608E-05					10000	
Chromium	0	0	100	0.0000576	1000	5.447E-05					10000	5.4983E-05
Cobalt	0	0	100	0.0051898	1000	0.0050998					10000	0.0051703
Copper	0	0	100	0.0000601	1000	5.563E-05					10000	5.5658E-05
Iron	0	0	5100	2.621569E-05	10000	2.5347E-05			500000	2.4368E-05	10000	
Lead	0	0	100	0.0013361	1000	0.0012952					10000	0.0013307
Magnesium	0	0	5100		50000	2.4952E-06			500000	2.5254E-06	10000	
Manganese	0	0	100	0.0003259	1000	3.1445E-04	10000	3.0055E-04			10000	
Molybdenum	0	0	100	0.0038585	1000	0.0039972					10000	0.0039574
Nickel	0	0	100	0.0026113	1000	0.0025958					10000	0.0026072
Potassium	0	0	1000	1.842E-05	10000	2.0034E-05						
Selenium	0	0	100	0.00039	1000	3.9808E-04					10000	3.8804E-04
Silver	0	0	20	0.0000835	500	7.918E-05	2000	8.2345E-05				
Sodium	0	0	1000		50000	3.4952E-05						
Strontium	0	0	100	0.002042	1000	0.002046					10000	0.002032
Thallium	0	0	100	0.0004944	1000	5.0186E-04					10000	5.0826E-04
Tin	0	0	50	0.001337	1000	0.0013876					5000	1.38292E-03
Titanium	0	0	100	0.0002257	1000	2.2509E-04					10000	2.2799E-04
Vanadium	0	0	100	0.0000531	1000	5.195E-05					10000	5.184E-05
Zinc	0	0	100	0.0074324	1000	0.0074891					10000	0.0073596

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2306002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/31/12 9:57 10/31/12 10:30

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
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.347E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4164E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	2.0483E-05										
Selenium												
Silver												
Sodium	100000	3.3448E-05	500000	3.327E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2306002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/31/12 9:57 10/31/12 10:30

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
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.347E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4164E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	2.0483E-05										
Selenium												
Silver												
Sodium	100000	3.3448E-05	500000	3.327E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2306002	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	10/31/12 9:57	10/31/12 10:30	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.336925E-05	66.67065	6.327578	191.9377	1		0.998	
Antimony	3.7972E-04	67.00365	2.742203	164.2894	0.9999979		0.998	
Arsenic	1.850275E-04	67.0404	12.98957	189.1034	0.9999912		0.998	
Barium	6.06485E-03	66.68923	1.733573	160.3672	0.9999648		0.998	
Beryllium	1.948075E-03	66.68662	2.362205	148.8856	0.9999924		0.998	
Boron	1.3714E-05	66.66821	4.576588	161.3718	0.9999993		0.998	
Cadmium	0.0134095	66.73632	11.37602	195.8005	0.9999734		0.998	
Calcium	4.952405E-05	66.77707	3.492035	149.7924	0.9999763		0.998	
Chromium	4.176325E-05	66.7474	3.155877	133.3084	0.9999985		0.998	
Cobalt	3.864975E-03	66.67417	2.084228	180.4513	0.9999979		0.998	
Copper	4.2847E-05	66.84669	1.695617	47.59539	0.9999994		0.998	
Iron	1.898267E-05	66.78514	55.28954	198.2781	0.9999994		0.998	
Lead	0.0009905	66.69182	36.88296	198.1532	0.9999926		0.998	
Magnesium	1.85925E-06	66.71246	28.04274	197.0747	0.9999225		0.998	
Manganese	2.35225E-04	66.81214	4.75818	153.5887	0.9999814		0.998	
Molybdenum	2.953275E-03	66.6959	1.432232	175.5165	0.9999987		0.998	
Nickel	1.953575E-03	66.66751	57.23434	198.9781	0.9999998		0.998	
Potassium	1.473425E-05	66.93722	4.978975	163.3964	0.9999986		0.998	
Selenium	2.9403E-04	66.68304	4.859613	185.2569	0.9999938		0.998	
Silver	6.125625E-05	66.73329	7.224963	176.7889	0.9998923		0.998	
Sodium	2.54175E-05	66.73271	1.437315	105.9986	0.9999773		0.998	
Strontium	0.00153	66.66778	3.532275	164.0247	0.9999995		0.998	
Thallium	3.7613E-04	66.68367	3.065237	180.2704	0.9999992		0.998	
Tin	1.02688E-03	66.70373	4.59418	185.2149	0.9999991		0.998	
Titanium	1.69695E-04	66.67072	39.39672	197.1965	0.9999985		0.998	
Vanadium	3.92225E-05	66.68249	5.924148	174.8698	1		0.998	
Zinc	5.570275E-03	66.67346	1.619103	173.8876	0.9999971		0.998	
Aluminum	2.336925E-05	66.67065	6.327578	191.9377	1		0.998	
Antimony	3.7972E-04	67.00365	2.742203	164.2894	0.9999979		0.998	
Arsenic	1.850275E-04	67.0404	12.98957	189.1034	0.9999912		0.998	
Barium	6.06485E-03	66.68923	1.733573	160.3672	0.9999648		0.998	
Beryllium	1.948075E-03	66.68662	2.362205	148.8856	0.9999924		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2306002	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	10/31/12 9:57	10/31/12 10:30	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.3714E-05	66.66821	4.576588	161.3718	0.9999993		0.998	
Cadmium	0.0134095	66.73632	11.37602	195.8005	0.9999734		0.998	
Calcium	4.952405E-05	66.77707	3.492035	149.7924	0.9999763		0.998	
Chromium	4.176325E-05	66.7474	3.155877	133.3084	0.9999985		0.998	
Cobalt	3.864975E-03	66.67417	2.084228	180.4513	0.9999979		0.998	
Copper	4.2847E-05	66.84669	1.695617	47.59539	0.9999994		0.998	
Iron	1.898267E-05	66.78514	55.28954	198.2781	0.9999994		0.998	
Lead	0.0009905	66.69182	36.88296	198.1532	0.9999926		0.998	
Magnesium	1.85925E-06	66.71246	28.04274	197.0747	0.9999225		0.998	
Manganese	2.35225E-04	66.81214	4.75818	153.5887	0.9999814		0.998	
Molybdenum	2.953275E-03	66.6959	1.432232	175.5165	0.9999987		0.998	
Nickel	1.953575E-03	66.66751	57.23434	198.9781	0.9999998		0.998	
Potassium	1.473425E-05	66.93722	4.978975	163.3964	0.9999986		0.998	
Selenium	2.9403E-04	66.68304	4.859613	185.2569	0.9999938		0.998	
Silver	6.125625E-05	66.73329	7.224963	176.7889	0.9998923		0.998	
Sodium	2.54175E-05	66.73271	1.437315	105.9986	0.9999773		0.998	
Strontium	0.00153	66.66778	3.532275	164.0247	0.9999995		0.998	
Thallium	3.7613E-04	66.68367	3.065237	180.2704	0.9999992		0.998	
Tin	1.02688E-03	66.70373	4.59418	185.2149	0.9999991		0.998	
Titanium	1.69695E-04	66.67072	39.39672	197.1965	0.9999985		0.998	
Vanadium	3.92225E-05	66.68249	5.924148	174.8698	1		0.998	
Zinc	5.570275E-03	66.67346	1.619103	173.8876	0.9999971		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2310002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/2/12 9:11 11/2/12 9:44

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.714E-05	10000	2.7236E-05			500000	2.6734E-05		
Antimony	0	0	100	0.0004179	1000	0.0004706					10000	0.0004609
Arsenic	0	0	100	0.0002065	1000	2.3411E-04					10000	2.2698E-04
Barium	0	0	50	0.0073586	1000	0.0071518	5000	0.007233				
Beryllium	0	0	100	0.0022931	1000	0.0023617					10000	0.0022737
Boron	0	0	50	0.0000158	1000	1.652E-05					5000	1.6056E-05
Cadmium	0	0	100	0.015846	1000	0.016179					10000	0.015329
Calcium	0	0	1100	5.823636E-05	50000	5.8926E-05					10000	
Chromium	0	0	100	0.0000507	1000	4.931E-05					10000	4.8619E-05
Cobalt	0	0	100	0.0045854	1000	0.0045456					10000	0.0045533
Copper	0	0	100	0.0000539	1000	5.198E-05					10000	4.9431E-05
Iron	0	0	5100	2.255882E-05	10000	2.2242E-05			500000	2.1178E-05	10000	
Lead	0	0	100	0.001177	1000	0.0011503					10000	0.0011719
Magnesium	0	0	5100		50000	2.1624E-06			500000	2.1874E-06	10000	
Manganese	0	0	100	0.0002818	1000	2.8614E-04	10000	2.7188E-04			10000	
Molybdenum	0	0	100	0.0033802	1000	0.0035243					10000	0.0034353
Nickel	0	0	100	0.0023769	1000	0.0023535					10000	0.0023418
Potassium	0	0	1000	1.577E-05	10000	1.7566E-05						
Selenium	0	0	100	0.0003415	1000	3.5252E-04					10000	3.3578E-04
Silver	0	0	20	0.0000735	500	6.954E-05	2000	~~0.0000461~~				
Sodium	0	0	1000		50000	4.6748E-05						
Strontium	0	0	100	0.001783	1000	0.001824					10000	0.001783
Thallium	0	0	100	0.0006693	1000	6.6762E-04					10000	6.7283E-04
Tin	0	0	50	0.0011774	1000	0.0012279					5000	1.21526E-03
Titanium	0	0	100	0.0001952	1000	0.0002017					10000	2.0251E-04
Vanadium	0	0	100	0.0000464	1000	4.724E-05					10000	4.6149E-05
Zinc	0	0	100	0.0064929	1000	0.0066199					10000	0.0064811

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2310002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/2/12 9:11 11/2/12 9:44

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.591E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.0874E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.7638E-05										
Selenium												
Silver												
Sodium	100000	4.3574E-05	500000	4.421E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2310002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	11/2/12 9:11	11/2/12 9:44

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.02775E-05	66.6753	3.43118	169.2201	0.9999999		0.998	
Antimony	3.3735E-04	67.01142	0.6101525	82.25137	0.9999912		0.998	
Arsenic	1.668975E-04	67.0344	5.189835	168.3289	0.9999849		0.998	
Barium	5.43585E-03	66.68503	2.632275	176.9712	0.9999939		0.998	
Beryllium	1.732125E-03	66.70229	124.2593	199.3738	0.9999852		0.998	
Boron	1.2094E-05	66.71218	2.140972	125.8478	0.9999654		0.998	
Cadmium	0.0118385	66.73208	2.173867	162.4396	0.9999707		0.998	
Calcium	4.326809E-05	66.73333	1.868893	142.1384	0.9999714		0.998	
Chromium	3.715725E-05	66.70734	5.336313	166.8546	0.9999985		0.998	
Cobalt	3.421075E-03	66.66857	1.560408	156.5659	0.9999999		0.998	
Copper	3.882775E-05	66.83314	1.09292	29.69898	0.9999806		0.998	
Iron	1.649471E-05	66.76273	44.98682	198.7746	0.9999993		0.998	
Lead	0.0008748	66.67979	13.26045	194.0436	0.9999964		0.998	
Magnesium	1.6093E-06	66.71893	65.30371	198.8314	0.9999123		0.998	
Manganese	2.09955E-04	66.72724	4.07208	162.6217	0.999974		0.998	
Molybdenum	2.58495E-03	66.70622	8.843497	192.1095	0.9999928		0.998	
Nickel	1.76805E-03	66.67177	208.0994	199.5523	0.9999998		0.998	
Potassium	1.27435E-05	67.01063	4.199107	174.388	0.9999997		0.998	
Selenium	2.5745E-04	66.72126	13.9735	192.0963	0.9999765		0.998	
Silver	4.768E-05	86.70204	5.06437	120.6512	1		0.998	
Sodium	3.3633E-05	66.7912	2.328358	114.1587	0.9999399		0.998	
Strontium	0.0013475	66.68209	2.978125	153.3843	0.9999945		0.998	
Thallium	5.024375E-04	66.66807	5.032245	191.0517	0.9999996		0.998	
Tin	9.0514E-04	66.7088	0.764795	117.4854	0.9999942		0.998	
Titanium	1.498525E-04	66.70241	8.307518	191.0357	0.9999998		0.998	
Vanadium	3.494725E-05	66.68003	10.7607	185.9742	0.9999947		0.998	
Zinc	4.898475E-03	66.67901	9.87164	193.1425	0.9999954		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2310003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/5/12 10:25 11/5/12 10:59

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	2.6688E-05	10000	2.662E-05			500000	2.6436E-05		
Antimony	0	0	100	0.0005044	1000	5.542299E-04					10000	0.0005518
Arsenic	0	0	100	0.000292	1000	3.1764E-04					10000	3.0963E-04
Barium	0	0	50	0.009795	1000	9.533499E-03	5000	9.641999E-03				
Beryllium	0	0	100	0.0023416	1000	0.0023626					10000	0.0022386
Boron	0	0	50	0.000017	1000	1.889E-05					5000	1.8624E-05
Cadmium	0	0	100	0.015587	1000	0.015974					10000	0.01514
Calcium	0	0	1100	6.000909E-05	50000	5.8728E-05					10000	
Chromium	0	0	100	0.0000506	1000	4.865E-05					10000	4.8031E-05
Cobalt	0	0	100	0.0045356	1000	0.0045297					10000	0.0045476
Copper	0	0	100	0.0000885	1000	8.382E-05					10000	8.2641E-05
Iron	0	0	5100	2.258431E-05	10000	2.1892E-05			500000	2.0778E-05	10000	
Lead	0	0	100	0.0011805	1000	0.001149					10000	0.0011752
Magnesium	0	0	5100		50000	2.1106E-06			500000	2.119E-06	10000	
Manganese	0	0	100	0.0002898	1000	2.8129E-04	10000	2.7373E-04			10000	
Molybdenum	0	0	100	0.0033501	1000	0.003482					10000	0.00343
Nickel	0	0	100	0.0027797	1000	0.002767					10000	0.0027892
Potassium	0	0	1000	1.549E-05	10000	1.7173E-05						
Selenium	0	0	100	0.0003397	1000	3.4951E-04					10000	3.3767E-04
Silver	0	0	20	0.000072	500	0.0000683	2000	7.0865E-05				
Sodium	0	0	1000		50000	5.6534E-05						
Strontium	0	0	100	0.001807	1000	0.001811					10000	0.001729
Thallium	0	0	100	0.0006736	1000	6.6092E-04					10000	6.7276E-04
Tin	0	0	50	0.0011654	1000	0.0012114					5000	1.21048E-03
Titanium	0	0	100	0.0001966	1000	1.9955E-04					10000	1.9498E-04
Vanadium	0	0	100	0.0000471	1000	4.668E-05					10000	4.5791E-05
Zinc	0	0	100	0.0064022	1000	0.0065373					10000	0.0064291

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2310003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/5/12 10:25 11/5/12 10:59

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	5.4376E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.0601E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.7505E-05										
Selenium												
Silver												
Sodium	100000	5.6985E-05	500000	5.7022E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_068	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2310003		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	11/5/12 10:25	11/5/12 10:59

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.9936E-05	66.66881	3.686372	170.4935	1		0.998	
Antimony	4.026075E-04	66.90969	4.219778	173.1431	0.9999987		0.998	
Arsenic	2.298175E-04	66.82936	5.651908	187.4137	0.999991		0.998	
Barium	7.242625E-03	66.68312	1.673348	159.7926	0.9999939		0.998	
Beryllium	0.0017357	66.73973	14.52655	187.6801	0.9999712		0.998	
Boron	1.36285E-05	66.94785	5.428805	182.9974	0.9999879		0.998	
Cadmium	1.167525E-02	66.73053	1.849755	168.4684	0.999971		0.998	
Calcium	4.327827E-05	66.89901	3.722817	149.7008	0.9999375		0.998	
Chromium	3.682025E-05	66.73293	3.098853	151.8281	0.9999988		0.998	
Cobalt	3.403225E-03	66.66703	4.422985	182.531	0.9999998		0.998	
Copper	6.374025E-05	66.78475	1.159945	38.74001	0.9999993		0.998	
Iron	1.631358E-05	66.82252	216.9895	199.1373	0.9999991		0.998	
Lead	8.76175E-04	66.68519	5.12007	183.4154	0.9999947		0.998	
Magnesium	1.572425E-06	66.68719	16.58284	193.7635	0.9999663		0.998	
Manganese	2.11205E-04	66.73908	4.455255	146.6447	0.9999935		0.998	
Molybdenum	2.565525E-03	66.70019	10.63434	193.3052	0.9999973		0.998	
Nickel	2.083975E-03	66.6681	33.28571	198.4523	0.9999994		0.998	
Potassium	1.2542E-05	67.03663	2.491585	184.9191	0.9999991		0.998	
Selenium	2.5672E-04	66.69707	38.81475	197.8549	0.9999879		0.998	
Silver	5.279125E-05	66.7311	5.564945	167.8824	0.9999029		0.998	
Sodium	4.263525E-05	66.6687	36.16057	197.9317	0.9999993		0.998	
Strontium	1.33675E-03	66.72645	2.7258	128.5972	0.9999787		0.998	
Thallium	5.0182E-04	66.67665	31.16792	197.216	0.999997		0.998	
Tin	8.9682E-04	66.70964	6.84442	190.3631	0.9999998		0.998	
Titanium	1.477825E-04	66.67896	14.21825	189.4765	0.9999945		0.998	
Vanadium	3.489275E-05	66.68501	7.14251	177.1764	0.9999967		0.998	
Zinc	4.84215E-03	66.67757	5.621252	187.0873	0.9999971		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/14/12 9:59 11/14/12 10:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.9148E-05	10000	2.9117E-05			500000	2.7924E-05		
Antimony	0	0	100	0.0005835	1000	6.2841E-04					10000	6.1071E-04
Arsenic	0	0	100	0.0003177	1000	3.4584E-04					10000	3.3262E-04
Barium	0	0	50	0.0108942	1000	0.010634	5000	0.010854				
Beryllium	0	0	100	0.0021918	1000	0.0022418					10000	0.0021715
Boron	0	0	50	0.0000212	1000	2.299E-05					5000	2.1958E-05
Cadmium	0	0	100	0.016961	1000	0.017142					10000	0.016263
Calcium	0	0	1100	6.395455E-05	50000	6.3686E-05					10000	
Chromium	0	0	100	0.0000486	1000	4.772E-05					10000	4.669E-05
Cobalt	0	0	100	0.0046186	1000	0.0045586					10000	0.0045807
Copper	0	0	100	0.0001026	1000	0.0000936					10000	9.1021E-05
Iron	0	0	5100	2.503726E-05	10000	2.4297E-05			500000	2.289E-05	10000	
Lead	0	0	100	0.0011911	1000	0.0011477					10000	0.0011697
Magnesium	0	0	5100		50000	2.7572E-06			500000	2.6706E-06	10000	
Manganese	0	0	100	0.0003727	1000	3.6055E-04	10000	3.5086E-04			10000	
Molybdenum	0	0	100	0.0034614	1000	0.0036237					10000	0.0035252
Nickel	0	0	100	0.0032117	1000	0.0031917					10000	0.0031637
Potassium	0	0	1000	0.0000171	10000	1.9249E-05						
Selenium	0	0	100	0.000323	1000	3.4056E-04					10000	3.2517E-04
Silver	0	0	20	0.000082	500	7.841999E-05	2000	8.090999E-05				
Sodium	0	0	1000		50000	7.1696E-05						
Strontium	0	0	100	0.001712	1000	0.001747					10000	0.001705
Thallium	0	0	100	0.0007636	1000	7.4706E-04					10000	7.5022E-04
Tin	0	0	50	0.0011744	1000	0.0012404					5000	0.0012242
Titanium	0	0	100	0.0001939	1000	1.9792E-04					10000	1.9858E-04
Vanadium	0	0	100	0.000045	1000	4.609E-05					10000	4.4919E-05
Zinc	0	0	100	0.0068507	1000	0.0069972					10000	0.0068277

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319004	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/14/12 9:59 11/14/12 10:31

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	0.0000609								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6051E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.9426E-05										
Selenium												
Silver												
Sodium	100000	6.964E-05	500000	6.882E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2319004	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	11/14/12 9:59	11/14/12 10:31	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.154725E-05	66.7191	5.048515	170.9948	0.9999994		0.998	
Antimony	4.55655E-04	66.7898	4.56375	189.4333	0.9999892		0.998	
Arsenic	2.4904E-04	66.82627	3.635307	187.4948	0.9999814		0.998	
Barium	8.09555E-03	66.68163	2.398397	193.1537	0.9999815		0.998	
Beryllium	1.651275E-03	66.69067	13.24289	190.067	0.9999897		0.998	
Boron	1.6537E-05	66.8141	19.10268	184.3815	0.9998998		0.998	
Cadmium	0.0125915	66.73457	2.04508	171.9113	0.9999727		0.998	
Calcium	4.713514E-05	66.73101	2.216653	133.747	0.9999796		0.998	
Chromium	3.57525E-05	66.70241	6.289578	174.6359	0.999996		0.998	
Cobalt	3.439475E-03	66.67056	1.59036	189.3567	0.9999997		0.998	
Copper	7.180525E-05	67.02407	0.9092325	40.50218	0.9999963		0.998	
Iron	1.805606E-05	66.84889	46.52795	198.6077	0.9999988		0.998	
Lead	8.77125E-04	66.69726	5.765607	186.1153	0.9999959		0.998	
Magnesium	2.008225E-06	66.73879	45.25008	198.1436	0.999946		0.998	
Manganese	2.710275E-04	66.74813	27.95518	193.2305	0.9999935		0.998	
Molybdenum	2.652575E-03	66.71416	5.601295	196.3348	0.9999915		0.998	
Nickel	2.391775E-03	66.67175	5.288502	194.4973	0.9999993		0.998	
Potassium	1.394375E-05	67.09645	1.266838	126.3387	0.9999999		0.998	
Selenium	2.471825E-04	66.74163	35.10575	198.4758	0.9999769		0.998	
Silver	6.03325E-05	66.71291	3.602032	138.6164	0.9999279		0.998	
Sodium	5.2539E-05	66.70642	14.95103	191.792	0.9999843		0.998	
Strontium	0.001291	66.68185	2.9142	142.4514	0.9999936		0.998	
Thallium	5.6522E-04	66.67873	9.12732	193.8413	0.9999997		0.998	
Tin	9.0975E-04	66.7381	3.083032	182.8732	0.9999905		0.998	
Titanium	0.0001476	66.68139	2.45188	169.9397	0.9999996		0.998	
Vanadium	3.400225E-05	66.68516	24.82937	193.504	0.9999933		0.998	
Zinc	0.0051689	66.68249	3.686025	193.4176	0.999994		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/13/12 9:19 11/13/12 9:52

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	3.2732E-05	10000	3.2822E-05			500000	3.2402E-05		
Antimony	0	0	100	0.000685	1000	7.2604E-04					10000	7.1941E-04
Arsenic	0	0	100	0.0003605	1000	3.8697E-04					10000	3.7663E-04
Barium	0	0	50	0.0123498	1000	0.012072	5000	0.0123372				
Beryllium	0	0	100	0.0025288	1000	0.002527					10000	0.0023762
Boron	0	0	50	0.0000202	1000	2.014E-05					5000	1.9678E-05
Cadmium	0	0	100	0.018598	1000	0.018993					10000	0.018077
Calcium	0	0	1100	7.878181E-05	50000	7.6048E-05					10000	
Chromium	0	0	100	0.0000537	1000	5.282E-05					10000	5.2022E-05
Cobalt	0	0	100	0.0050057	1000	0.0049823					10000	0.004991
Copper	0	0	100	0.0001127	1000	1.0588E-04					10000	1.0511E-04
Iron	0	0	5100	2.956078E-05	10000	2.8488E-05			500000	2.708E-05	10000	
Lead	0	0	100	0.0012933	1000	0.0012517					10000	0.0012743
Magnesium	0	0	5100		50000	3.3036E-06			500000	3.3436E-06	10000	
Manganese	0	0	100	0.0003327	1000	3.2827E-04	10000	0.0003159			10000	
Molybdenum	0	0	100	0.0038466	1000	0.0040176					10000	0.0039257
Nickel	0	0	100	0.0036431	1000	0.0036531					10000	0.0036927
Potassium	0	0	1000	2.005E-05	10000	2.2272E-05						
Selenium	0	0	100	0.0003605	1000	3.7559E-04					10000	3.5781E-04
Silver	0	0	20	0.000092	500	0.0000908	2000	9.3615E-05				
Sodium	0	0	1000		50000	8.3178E-05						
Strontium	0	0	100	0.001998	1000	0.001986					10000	0.001887
Thallium	0	0	100	0.0008627	1000	8.4501E-04					10000	8.6062E-04
Tin	0	0	50	0.0012956	1000	0.0013641					5000	1.35326E-03
Titanium	0	0	100	0.0002298	1000	2.2805E-04					10000	2.2506E-04
Vanadium	0	0	100	0.0000514	1000	5.177E-05					10000	5.0547E-05
Zinc	0	0	100	0.0075666	1000	0.0077272					10000	0.007597

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/13/12 9:19 11/13/12 9:52

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	7.3868E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	3.2958E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	2.3089E-05										
Selenium												
Silver												
Sodium	100000	0.0000842	500000	8.168E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2319005	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	11/13/12 9:19	11/13/12 9:52	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.4489E-05	66.67075	4.95255	178.0777	0.9999999		0.998	
Antimony	5.326125E-04	66.75216	1.8996	165.3938	0.9999984		0.998	
Arsenic	2.81025E-04	66.77924	3.140495	187.0551	0.9999906		0.998	
Barium	9.18975E-03	66.68123	1.005157	168.6956	0.9999793		0.998	
Beryllium	0.001858	66.77769	8.795792	187.3168	0.9999628		0.998	
Boron	1.50045E-05	66.68478	3.690632	145.6116	0.9999796		0.998	
Cadmium	0.013917	66.72114	0.4928225	134.7318	0.9999756		0.998	
Calcium	5.717445E-05	66.75933	1.62826	81.94192	0.9999917		0.998	
Chromium	3.96355E-05	66.68909	3.339092	127.4071	0.9999981		0.998	
Cobalt	3.74475E-03	66.66716	4.419435	191.1423	0.9999999		0.998	
Copper	8.09225E-05	66.79979	1.37455	14.98132	1		0.998	
Iron	2.12822E-05	66.83732	39.96116	198.1921	0.9999991		0.998	
Lead	9.54825E-04	66.69045	6.31733	189.572	0.9999963		0.998	
Magnesium	2.48575E-06	66.67199	23.16636	196.5008	0.9999923		0.998	
Manganese	2.442175E-04	66.7302	4.235385	131.0176	0.9999863		0.998	
Molybdenum	2.947475E-03	66.7088	14.3153	198.3368	0.9999939		0.998	
Nickel	2.747225E-03	66.67122	10.39833	196.3845	0.999999		0.998	
Potassium	1.635275E-05	67.12754	1.320205	73.83158	0.9999941		0.998	
Selenium	2.73475E-04	66.72804	43.99834	197.9197	0.9999761		0.998	
Silver	6.910375E-05	66.68756	8.20146	169.1488	0.9999334		0.998	
Sodium	6.22645E-05	66.68738	2.700293	154.9157	0.9999634		0.998	
Strontium	1.46775E-03	66.75274	1.3618	136.9236	0.999974		0.998	
Thallium	6.420825E-04	66.67801	91.65323	199.1471	0.9999967		0.998	
Tin	1.00324E-03	66.73398	1.614978	131.6499	0.999996		0.998	
Titanium	1.707275E-04	66.67652	0.79644	84.57033	0.9999989		0.998	
Vanadium	3.842925E-05	66.67998	21.8663	185.4307	0.9999945		0.998	
Zinc	0.0057227	66.67778	7.373468	196.3124	0.999997		0.998	

Data for Wet Chemistry Forms

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J30430	5.00/5.00	5.00	5.00	1.00		10/30/12
1210274-03 [GW0880]	2J30430	5.00/5.00	5.00	5.00	1.00		10/30/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2J31024	100.00/100.00	100	100	1.00		10/31/12
1210274-03 [GW0880]	2J31024	100.00/100.00	100	100	1.00		10/31/12
1210294-01 [GW0876]	2J31024	100.00/100.00	100	100	1.00		10/31/12
1210294-03 [GW0877]	2J31024	100.00/100.00	100	100	1.00		10/31/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210294-01 [GW0876]	2J31029	5.00/5.00	5.00	5.00	1.00		10/31/12
1210294-03 [GW0877]	2J31029	5.00/5.00	5.00	5.00	1.00		10/31/12

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2K01007	250.00/200.00	270	200	1.00		11/01/12
1210274-03 [GW0880]	2K01007	250.00/200.00	270	200	1.00		11/01/12
1210294-01 [GW0876]	2K01007	250.00/200.00	270	200	1.00		11/01/12
1210294-03 [GW0877]	2K01007	250.00/200.00	270	200	1.00		11/01/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2K01011	25.00/25.00	25.0	25.0	1.00		11/01/12
1210274-03 [GW0880]	2K01011	25.00/25.00	25.0	25.0	1.00		11/01/12
1210294-01 [GW0876]	2K01011	25.00/25.00	25.0	25.0	1.00		11/01/12
1210294-03 [GW0877]	2K01011	25.00/25.00	25.0	25.0	1.00		11/01/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1210274-01 [GW0879]	2K01023	20.00/20.00	4.00	20.0	1.00		11/01/12
1210274-03 [GW0880]	2K01023	20.00/20.00	4.00	20.0	1.00		11/01/12
1210294-01 [GW0876]	2K01023	20.00/20.00	4.00	20.0	1.00		11/01/12
1210294-03 [GW0877]	2K01023	20.00/20.00	4.00	20.0	1.00		11/01/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K08017	20.00/20.00	4.00	20.0	1.00		11/08/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K09028	5.00/5.00	5.00	5.00	1.00		11/09/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K12001	100.00/100.00	100	100	1.00		11/12/12

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K12009	250.00/200.00	270	200	1.00		11/12/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Date
1211075-02 [GW0878]	2K13012	25.00/25.00	25.0	25.0	1.00		11/13/12

ANALYSIS DATA SHEET

GW0879

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-01
Sampled:	10/29/12 14:32	Received:	10/30/12 08:40
% 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	2J31024	10/31/12 14:01
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:31
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**96.1**	1.00	1.00	1.00	1		SM2320B	2K01011	11/01/12 08:04
16887-00-6	Chloride	**41.2**	0.170	0.330	1.00	1	M	E300.0	2J30430	10/31/12 07:20
NA	Nitrate/Nitrite as N	**0.942**	0.250	0.750	1.50	1	J	E353.2	2K01023	11/01/12 13:38
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K01011	11/01/12 08:04
14808-79-8	Sulfate as SO4	**49.8**	0.330	1.00	2.50	1	M	E300.0	2J30430	10/31/12 07:20

ANALYSIS DATA SHEET

GW0880

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210274-03
Sampled:	10/29/12 11:49	Received:	10/30/12 08:40
% 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	2J31024	10/31/12 14:02
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:31
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**109**	1.00	1.00	1.00	1		SM2320B	2K01011	11/01/12 08:12
16887-00-6	Chloride	**9.68**	0.170	0.330	1.00	1	M	E300.0	2J30430	10/31/12 07:38
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K01023	11/01/12 13:39
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K01011	11/01/12 08:12
14808-79-8	Sulfate as SO4	**29.3**	0.330	1.00	2.50	1	M	E300.0	2J30430	10/31/12 07:38

ANALYSIS DATA SHEET

GW0876

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-01
Sampled:	10/30/12 14:42	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J31024	10/31/12 14:03
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:41
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**101**	1.00	1.00	1.00	1		SM2320B	2K01011	11/01/12 08:30
16887-00-6	Chloride	**36.0**	0.170	0.330	0.500	1		E300.0	2J31029	11/01/12 08:24
NA	Nitrate/Nitrite as N	**1.01**	0.250	0.750	1.50	1	J	E353.2	2K01023	11/01/12 13:41
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K01011	11/01/12 08:30
14808-79-8	Sulfate as SO4	**53.0**	0.330	1.00	2.50	1	M	E300.0	2J31029	11/01/12 08:24

ANALYSIS DATA SHEET

GW0877

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210294-03
Sampled:	10/30/12 12:04	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2J31024	10/31/12 14:04
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:41
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**92.8**	1.00	1.00	1.00	1		SM2320B	2K01011	11/01/12 08:42
16887-00-6	Chloride	**56.8**	0.170	0.330	0.500	1		E300.0	2J31029	11/01/12 08:42
NA	Nitrate/Nitrite as N	**1.19**	0.250	0.750	1.50	1	J	E353.2	2K01023	11/01/12 13:42
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K01011	11/01/12 08:42
14808-79-8	Sulfate as SO4	**52.9**	0.330	1.00	2.50	1	M	E300.0	2J31029	11/01/12 08:42

ANALYSIS DATA SHEET

GW0878

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211075-02
Sampled:	11/07/12 14:33	Received:	11/08/12 08:35
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K12001	11/12/12 14:14
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K12009	11/12/12 10:56
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**101**	1.00	1.00	1.00	1		SM2320B	2K13012	11/13/12 12:27
16887-00-6	Chloride	**39.1**	0.170	0.330	2.50	1	M	E300.0	2K09028	11/09/12 21:46
NA	Nitrate/Nitrite as N	**1.10**	0.250	0.750	1.50	1	J	E353.2	2K08017	11/08/12 15:06
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K13012	11/13/12 12:27
14808-79-8	Sulfate as SO4	**47.3**	0.330	1.00	2.50	1	M	E300.0	2K09028	11/09/12 21:46

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J30430-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2J30430	10/31/12 05:01
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.00	1	U	E300.0	2J30430	10/31/12 05:01

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J30430-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**4.380**	0.170	0.330	0.500	1		E300.0	2J30430	10/31/12 04:44
14808-79-8	Sulfate as SO4	**22.50**	0.330	1.00	2.00	1		E300.0	2J30430	10/31/12 04:44

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31024-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**0.130**	0.110	0.150	0.300	1	J	SM4500NH3BG	2J31024	10/31/12 13:55

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31024-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**4.944**	0.110	0.150	0.300	1		SM4500NH3BG	2J31024	10/31/12 13:55

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31029-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2J31029	11/01/12 02:28
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.00	1	U	E300.0	2J31029	11/01/12 02:28

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2J31029-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**4.600**	0.170	0.330	0.500	1		E300.0	2J31029	11/01/12 02:11
14808-79-8	Sulfate as SO4	**22.27**	0.330	1.00	2.00	1		E300.0	2J31029	11/01/12 02:11

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K01007-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	ND	0.800	2.00	4.00	1	U	SM4500S2CF	2K01007	11/01/12 14:30

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids:

SDG: Kirtland_068

Project: Kirtland AFB 2011

Laboratory ID: 2K01007-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1017**	83.3	208	417	1		SM4500S2CF	2K01007	11/01/12 14:30

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K01011-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K01011	11/01/12 08:00

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K01011-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1015**	5.00	5.00	5.00	1		SM2320B	2K01011	11/01/12 07:57

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K01023-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	ND	0.0500	0.150	0.300	1	U	E353.2	2K01023	11/01/12 13:23

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K01023-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**15.26**	1.00	3.00	6.00	1		E353.2	2K01023	11/01/12 13:25

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K08017-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	ND	0.0500	0.150	0.300	1	U	E353.2	2K08017	11/08/12 14:37

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K08017-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**14.26**	1.00	3.00	6.00	1		E353.2	2K08017	11/08/12 14:39

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K09028-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K09028	11/09/12 16:33
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.00	1	U	E300.0	2K09028	11/09/12 16:33

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K09028-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**5.072**	0.170	0.330	0.500	1		E300.0	2K09028	11/09/12 15:58
14808-79-8	Sulfate as SO4	**23.96**	0.330	1.00	2.00	1		E300.0	2K09028	11/09/12 15:58

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K12001-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	ND	0.110	0.150	0.300	1	U	SM4500NH3BG	2K12001	11/12/12 13:50

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K12001-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.117**	0.110	0.150	0.300	1		SM4500NH3BG	2K12001	11/12/12 13:51

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K12009-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	ND	0.800	2.00	4.00	1	U	SM4500S2CF	2K12009	11/12/12 10:50

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids:

SDG: Kirtland_068

Project: Kirtland AFB 2011

Laboratory ID: 2K12009-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1218**	83.3	208	417	1		SM4500S2CF	2K12009	11/12/12 10:50

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K13012-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K13012	11/13/12 12:03

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_068
Project: Kirtland AFB 2011
Laboratory ID: 2K13012-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1015**	5.00	5.00	5.00	1		SM2320B	2K13012	11/13/12 12:00

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2305003
Sequence: 2J30515

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2J30515-ICV1	Ammonia as N	2.000	2.128	106	mg/L	+/- 10.00%
2J30515-CCV1	Ammonia as N	2.000	2.141	107	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_068
Project: Kirtland AFB 2011
Calibration: 2306001
Sequence: 2K30608

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K30608-CCV1	Chloride	25.00	24.14	96.6	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.37	97.5	mg/L	+/- 10.00%
2K30608-CCV2	Chloride	25.00	24.63	98.5	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.39	97.6	mg/L	+/- 10.00%
2K30608-CCV3	Chloride	25.00	24.15	96.6	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.47	93.9	mg/L	+/- 10.00%
2K30608-CCV4	Chloride	25.00	25.38	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.89	99.5	mg/L	+/- 10.00%
2K30608-ICV1	Chloride	4.800	4.483	93.4	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.47	97.8	mg/L	+/- 10.00%
2K30608-CCV5	Chloride	25.00	25.38	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.33	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2306003
Sequence: 2K30611

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K30611-ICV1	Nitrate/Nitrite as N	1.200	1.245	104	mg/L	+/- 10.00%
2K30611-CCV1	Nitrate/Nitrite as N	1.200	1.235	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2306001
Sequence: 2K31014

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31014-CCV1	Chloride	25.00	24.69	98.8	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.05	100	mg/L	+/- 10.00%
2K31014-CCV2	Chloride	25.00	25.17	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.04	100	mg/L	+/- 10.00%
2K31014-CCV3	Chloride	25.00	25.16	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.95	99.8	mg/L	+/- 10.00%
2K31014-CCV4	Chloride	25.00	25.72	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.04	100	mg/L	+/- 10.00%
2K31014-CCV5	Chloride	25.00	25.85	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.34	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2313005
Sequence: 2K31314

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31314-ICV1	Nitrate/Nitrite as N	1.200	1.234	103	mg/L	+/- 10.00%
2K31314-CCV1	Nitrate/Nitrite as N	1.200	1.239	103	mg/L	+/- 10.00%
2K31314-CCV2	Nitrate/Nitrite as N	1.200	1.232	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K31404

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31404-ICV1	Chloride	4.800	4.831	101	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.52	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_068
Project: Kirtland AFB 2011
Calibration: 2317001
Sequence: 2K31714

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31714-ICV1	Ammonia as N	2.000	2.070	104	mg/L	+/- 10.00%
2K31714-CCV1	Ammonia as N	2.000	2.131	107	mg/L	+/- 10.00%
2K31714-CCV2	Ammonia as N	2.000	2.118	106	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_068
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K31815

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31815-CCV1	Chloride	25.00	27.06	108	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.88	104	mg/L	+/- 10.00%
2K31815-CCV2	Chloride	25.00	25.47	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.20	101	mg/L	+/- 10.00%
2K31815-CCV3	Chloride	25.00	25.05	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.94	99.8	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2306001

Sequence: 2K30608

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K30608-CRL2	Chloride	1.000	0.7740	77.4	mg/L	75 - 125
2K30608-CRL3	Sulfate as SO4	2.500	2.244	89.8	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2306001

Sequence: 2K31014

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31014-CRL1	Chloride	0.5000	0.4700	94.0	mg/L	75 - 125
2K31014-CRL3	Sulfate as SO4	2.500	2.304	92.2	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K31815

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31815-CRL3	Chloride	2.500	2.603	104	mg/L	75 - 125
	Sulfate as SO4	2.500	2.113	84.5	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J30430

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J30430-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
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J31024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J31024-BLK1	Ammonia as N	0.130	0.110	0.300	mg/L	J	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2J31029

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J31029-BLK1	Chloride	-0.133	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_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K01007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K01007-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K01011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K01011-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K01023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K01023-BLK1	Nitrate/Nitrite as N	-0.0318	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K08017

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K08017-BLK1	Nitrate/Nitrite as N	-0.0231	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K09028

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K09028-BLK1	Chloride	-0.0340	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
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K12001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K12001-BLK1	Ammonia as N	0.0607	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K12009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K12009-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K13012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K13012-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2J30515
Calibration: 2305003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2J30515-ICB1	Ammonia as N	0.006636	0.110	0.300	mg/L	U	SM4500NH3BG
2J30515-CCB1	Ammonia as N	0.00988	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K30608
Calibration: 2306001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K30608-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
2K30608-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
2K30608-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
2K30608-CCB4	Chloride	-0.211	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K30608-ICB1	Chloride	-0.1840	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0
2K30608-CCB5	Chloride	-0.194	0.170	0.500	mg/L	J	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_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K30611
Calibration: 2306003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K30611-ICB1	Nitrate/Nitrite as N	-0.03252	0.0500	0.300	mg/L	U	E353.2
2K30611-CCB1	Nitrate/Nitrite as N	-0.0317	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31014
Calibration: 2306001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31014-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
2K31014-CCB2	Chloride	-0.214	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K31014-CCB3	Chloride	-0.200	0.170	0.500	mg/L	J	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K31014-CCB4	Chloride	-0.101	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K31014-CCB5	Chloride	0.0360	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31314
Calibration: 2313005
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31314-ICB1	Nitrate/Nitrite as N	-0.02201	0.0500	0.300	mg/L	U	E353.2
2K31314-CCB1	Nitrate/Nitrite as N	-0.0464	0.0500	0.300	mg/L	U	E353.2
2K31314-CCB2	Nitrate/Nitrite as N	-0.0248	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31404
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31404-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31714
Calibration: 2317001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31714-ICB1	Ammonia as N	0.009305	0.110	0.300	mg/L	U	SM4500NH3BG
2K31714-CCB1	Ammonia as N	0.0250	0.110	0.300	mg/L	U	SM4500NH3BG
2K31714-CCB2	Ammonia as N	0.0234	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_068
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31815
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31815-CCB1	Chloride	-0.0510	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K31815-CCB2	Chloride	-0.0310	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
2K31815-CCB3	Chloride	-0.0300	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J30430	Laboratory ID:	2J30430-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.380	91.2	90 - 110
Sulfate as SO4	24.00	22.50	93.8	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31024	Laboratory ID:	2J31024-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	4.944	98.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31029	Laboratory ID:	2J31029-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.600	95.8	90 - 110
Sulfate as SO4	24.00	22.27	92.8	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K01007	Laboratory ID:	2K01007-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1067	1017	95.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K01011	Laboratory ID:	2K01011-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1015	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K01023	Laboratory ID:	2K01023-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	15.26	108	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08017	Laboratory ID:	2K08017-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	14.26	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09028	Laboratory ID:	2K09028-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.072	106	90 - 110
Sulfate as SO4	24.00	23.96	99.8	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K12001	Laboratory ID:	2K12001-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.117	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K12009	Laboratory ID:	2K12009-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1250	1218	97.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13012	Laboratory ID:	2K13012-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1015	102	80 - 120

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J30430 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/30/12 12:59	5.00	5.00
GW0880	1210274-03	10/30/12 12:59	5.00	5.00
Blank	2J30430-BLK1	10/30/12 12:59	5.00	5.00
LCS	2J30430-BS1	10/30/12 12:59	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31024 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	10/31/12 12:11	100.00	100.00
GW0880	1210274-03	10/31/12 12:11	100.00	100.00
GW0876	1210294-01	10/31/12 12:11	100.00	100.00
GW0877	1210294-03	10/31/12 12:11	100.00	100.00
Blank	2J31024-BLK1	10/31/12 12:11	100.00	100.00
LCS	2J31024-BS1	10/31/12 12:11	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2J31029 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0876	1210294-01	10/31/12 14:58	5.00	5.00
GW0877	1210294-03	10/31/12 14:58	5.00	5.00
Blank	2J31029-BLK1	10/31/12 14:24	5.00	5.00
LCS	2J31029-BS1	10/31/12 14:24	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K01007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	11/01/12 07:10	270.00	200.00
GW0880	1210274-03	11/01/12 07:10	270.00	200.00
GW0876	1210294-01	11/01/12 07:10	270.00	200.00
GW0877	1210294-03	11/01/12 07:10	270.00	200.00
Blank	2K01007-BLK1	11/01/12 07:10	250.00	200.00
LCS	2K01007-BS1	11/01/12 07:10	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K01011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	11/01/12 07:47	25.00	25.00
GW0880	1210274-03	11/01/12 07:47	25.00	25.00
GW0876	1210294-01	11/01/12 07:47	25.00	25.00
GW0877	1210294-03	11/01/12 07:47	25.00	25.00
Blank	2K01011-BLK1	11/01/12 07:47	25.00	25.00
LCS	2K01011-BS1	11/01/12 07:47	5.00	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K01023 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0879	1210274-01	11/01/12 12:28	4.00	20.00
GW0880	1210274-03	11/01/12 12:28	4.00	20.00
GW0876	1210294-01	11/01/12 12:28	4.00	20.00
GW0877	1210294-03	11/01/12 12:28	4.00	20.00
Blank	2K01023-BLK1	11/01/12 12:28	20.00	20.00
LCS	2K01023-BS1	11/01/12 12:28	1.00	20.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K08017 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/08/12 13:31	4.00	20.00
Blank	2K08017-BLK1	11/08/12 13:31	20.00	20.00
LCS	2K08017-BS1	11/08/12 13:31	1.00	20.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K09028 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/09/12 12:08	5.00	5.00
Blank	2K09028-BLK1	11/09/12 12:08	5.00	5.00
LCS	2K09028-BS1	11/09/12 12:08	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K12001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/12/12 05:35	100.00	100.00
Blank	2K12001-BLK1	11/12/12 05:35	100.00	100.00
LCS	2K12001-BS1	11/12/12 05:35	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K12009 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/12/12 07:13	270.00	200.00
Blank	2K12009-BLK1	11/12/12 07:13	250.00	200.00
LCS	2K12009-BS1	11/12/12 07:13	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_068

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

Batch: 2K13012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0878	1211075-02	11/13/12 10:29	25.00	25.00
Blank	2K13012-BLK1	11/13/12 10:29	25.00	25.00
LCS	2K13012-BS1	11/13/12 10:29	5.00	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2K01011-BS1	110112-002	11/01/12 07:57
Blank	2K01011-BLK1	110112-003	11/01/12 08:00
LCS	2K13012-BS1	111312-002	11/13/12 12:00
Blank	2K13012-BLK1	111312-003	11/13/12 12:03

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_068

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2K01007-BS1	110112-001	11/01/12 14:30
Blank	2K01007-BLK1	110112-002	11/01/12 14:30
LCS	2K12009-BS1		11/12/12 10:50
Blank	2K12009-BLK1	111212-001	11/12/12 10:50

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J30515	Instrument:	WC-Lachat
Calibration:	2305003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J30515-CAL1	M_10-31-2012_01-44-10PM-0	10/31/12 13:45
Cal Standard	2J30515-CAL2	M_10-31-2012_01-44-10PM-0	10/31/12 13:46
Cal Standard	2J30515-CAL3	M_10-31-2012_01-44-10PM-0	10/31/12 13:47
Cal Standard	2J30515-CAL4	M_10-31-2012_01-44-10PM-0	10/31/12 13:48
Cal Standard	2J30515-CAL5	M_10-31-2012_01-44-10PM-0	10/31/12 13:49
Cal Standard	2J30515-CAL6	M_10-31-2012_01-44-10PM-0	10/31/12 13:50
Cal Standard	2J30515-CAL7	M_10-31-2012_01-44-10PM-0	10/31/12 13:51
Cal Standard	2J30515-CAL8	M_10-31-2012_01-44-10PM-0	10/31/12 13:52
Initial Cal Check	2J30515-ICV1	M_10-31-2012_01-44-10PM-0	10/31/12 13:53
Initial Cal Blank	2J30515-ICB1	M_10-31-2012_01-44-10PM-0	10/31/12 13:54
Blank	2J31024-BLK1	M_10-31-2012_01-44-10PM-0	10/31/12 13:55
LCS	2J31024-BS1	M_10-31-2012_01-44-10PM-0	10/31/12 13:55
GW0879	1210274-01	M_10-31-2012_01-44-10PM-0	10/31/12 14:01
GW0880	1210274-03	M_10-31-2012_01-44-10PM-0	10/31/12 14:02
GW0876	1210294-01	M_10-31-2012_01-44-10PM-0	10/31/12 14:03
GW0877	1210294-03	M_10-31-2012_01-44-10PM-0	10/31/12 14:04
Calibration Check	2J30515-CCV1	M_10-31-2012_01-44-10PM-0	10/31/12 14:06
Calibration Blank	2J30515-CCB1	M_10-31-2012_01-44-10PM-0	10/31/12 14:07

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30608	Instrument:	WC-IC
Calibration:	2306001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K30608-CCV1	103012-003	10/30/12 19:44
Calibration Blank	2K30608-CCB1	103012-004	10/30/12 20:01
Instrument RL Check	2K30608-CRL2	103012-006	10/30/12 20:36
Instrument RL Check	2K30608-CRL3	103012-007	10/30/12 20:53
Calibration Check	2K30608-CCV2	103012-020	10/31/12 00:40
Calibration Blank	2K30608-CCB2	103012-021	10/31/12 00:57
Calibration Check	2K30608-CCV3	103012-032	10/31/12 04:09
Calibration Blank	2K30608-CCB3	103012-033	10/31/12 04:26
LCS	2J30430-BS1	103012-034	10/31/12 04:44
Blank	2J30430-BLK1	103012-035	10/31/12 05:01
GW0879	1210274-01	103012-043	10/31/12 07:20
GW0880	1210274-03	103012-044	10/31/12 07:38
Calibration Check	2K30608-CCV4	103012-045	10/31/12 07:55
Calibration Blank	2K30608-CCB4	103012-046	10/31/12 08:13
Cal Standard	2K30608-CAL1	103012-047	10/31/12 08:30
Cal Standard	2K30608-CAL2	103012-048	10/31/12 08:47
Cal Standard	2K30608-CAL3	103012-049	10/31/12 09:05
Cal Standard	2K30608-CAL4	103012-050	10/31/12 09:22
Cal Standard	2K30608-CAL5	103012-051	10/31/12 09:40
Cal Standard	2K30608-CAL6	103012-052	10/31/12 09:57
Cal Standard	2K30608-CAL7	103012-053	10/31/12 10:15
Cal Standard	2K30608-CAL8	103012-054	10/31/12 10:32
Initial Cal Check	2K30608-ICV1	103012-055	10/31/12 10:49
Initial Cal Blank	2K30608-ICB1	103012-056	10/31/12 11:07
Calibration Check	2K30608-CCV5	103012-057	10/31/12 11:24
Calibration Blank	2K30608-CCB5	103012-058	10/31/12 11:42

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K30611	Instrument:	WC-Lachat
Calibration:	2306003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K30611-CAL1	M_11-1-2012_01-05-55PM-00	11/01/12 13:07
Cal Standard	2K30611-CAL2	M_11-1-2012_01-05-55PM-00	11/01/12 13:09
Cal Standard	2K30611-CAL3	M_11-1-2012_01-05-55PM-00	11/01/12 13:10
Cal Standard	2K30611-CAL4	M_11-1-2012_01-05-55PM-00	11/01/12 13:12
Cal Standard	2K30611-CAL5	M_11-1-2012_01-05-55PM-00	11/01/12 13:13
Cal Standard	2K30611-CAL6	M_11-1-2012_01-05-55PM-00	11/01/12 13:15
Cal Standard	2K30611-CAL7	M_11-1-2012_01-05-55PM-00	11/01/12 13:16
Cal Standard	2K30611-CAL8	M_11-1-2012_01-05-55PM-00	11/01/12 13:18
Initial Cal Check	2K30611-ICV1	M_11-1-2012_01-05-55PM-00	11/01/12 13:19
Initial Cal Blank	2K30611-ICB1	M_11-1-2012_01-05-55PM-01	11/01/12 13:21
Blank	2K01023-BLK1	M_11-1-2012_01-05-55PM-01	11/01/12 13:23
LCS	2K01023-BS1	M_11-1-2012_01-05-55PM-01	11/01/12 13:25
GW0879	1210274-01	M_11-1-2012_01-05-55PM-02	11/01/12 13:38
GW0880	1210274-03	M_11-1-2012_01-05-55PM-02	11/01/12 13:39
GW0876	1210294-01	M_11-1-2012_01-05-55PM-02	11/01/12 13:41
GW0877	1210294-03	M_11-1-2012_01-05-55PM-02	11/01/12 13:42
Calibration Check	2K30611-CCV1	M_11-1-2012_01-05-55PM-02	11/01/12 13:44
Calibration Blank	2K30611-CCB1	M_11-1-2012_01-05-55PM-02	11/01/12 13:45

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31014	Instrument:	WC-IC
Calibration:	2306001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31014-CCV1	103112-005	10/31/12 17:11
Calibration Blank	2K31014-CCB1	103112-006	10/31/12 17:28
Instrument RL Check	2K31014-CRL1	103112-007	10/31/12 17:46
Instrument RL Check	2K31014-CRL3	103112-009	10/31/12 18:21
Calibration Check	2K31014-CCV2	103112-022	10/31/12 22:07
Calibration Blank	2K31014-CCB2	103112-023	10/31/12 22:24
Calibration Check	2K31014-CCV3	103112-034	11/01/12 01:36
Calibration Blank	2K31014-CCB3	103112-035	11/01/12 01:53
LCS	2J31029-BS1	103112-036	11/01/12 02:11
Blank	2J31029-BLK1	103112-037	11/01/12 02:28
Calibration Check	2K31014-CCV4	103112-048	11/01/12 05:40
Calibration Blank	2K31014-CCB4	103112-049	11/01/12 07:14
GW0876	1210294-01	103112-053	11/01/12 08:24
GW0877	1210294-03	103112-054	11/01/12 08:42
Calibration Check	2K31014-CCV5	103112-057	11/01/12 09:34
Calibration Blank	2K31014-CCB5	103112-058	11/01/12 09:51

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31314	Instrument:	WC-Lachat
Calibration:	2313005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31314-CAL2	M_11-8-2012_02-19-46PM-00	11/08/12 14:23
Cal Standard	2K31314-CAL3	M_11-8-2012_02-19-46PM-00	11/08/12 14:24
Cal Standard	2K31314-CAL4	M_11-8-2012_02-19-46PM-00	11/08/12 14:26
Cal Standard	2K31314-CAL5	M_11-8-2012_02-19-46PM-00	11/08/12 14:27
Cal Standard	2K31314-CAL6	M_11-8-2012_02-19-46PM-00	11/08/12 14:29
Cal Standard	2K31314-CAL7	M_11-8-2012_02-19-46PM-00	11/08/12 14:30
Cal Standard	2K31314-CAL8	M_11-8-2012_02-19-46PM-00	11/08/12 14:31
Initial Cal Check	2K31314-ICV1	M_11-8-2012_02-19-46PM-00	11/08/12 14:33
Initial Cal Blank	2K31314-ICB1	M_11-8-2012_02-19-46PM-01	11/08/12 14:34
Blank	2K08017-BLK1	M_11-8-2012_02-19-46PM-01	11/08/12 14:37
LCS	2K08017-BS1	M_11-8-2012_02-19-46PM-01	11/08/12 14:39
Calibration Check	2K31314-CCV1	M_11-8-2012_02-19-46PM-02	11/08/12 14:58
Calibration Blank	2K31314-CCB1	M_11-8-2012_02-19-46PM-02	11/08/12 14:59
GW0878	1211075-02	M_11-8-2012_02-19-46PM-03	11/08/12 15:06
Calibration Check	2K31314-CCV2	M_11-8-2012_02-19-46PM-03	11/08/12 15:09
Calibration Blank	2K31314-CCB2	M_11-8-2012_02-19-46PM-03	11/08/12 15:11

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31404	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31404-CAL1	110612-003	11/06/12 08:58
Cal Standard	2K31404-CAL2	110612-004	11/06/12 09:15
Cal Standard	2K31404-CAL3	110612-005	11/06/12 09:32
Cal Standard	2K31404-CAL4	110612-006	11/06/12 09:50
Cal Standard	2K31404-CAL5	110612-007	11/06/12 10:07
Cal Standard	2K31404-CAL6	110612-008	11/06/12 10:25
Cal Standard	2K31404-CAL7	110612-009	11/06/12 10:42
Cal Standard	2K31404-CAL8	110612-010	11/06/12 10:59
Initial Cal Check	2K31404-ICV1	110612-011	11/06/12 11:17
Initial Cal Blank	2K31404-ICB1	110612-012	11/06/12 11:34

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31714	Instrument:	WC-Lachat
Calibration:	2317001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31714-CAL1	M_11-12-2012_01-40-01PM-0	11/12/12 13:41
Cal Standard	2K31714-CAL2	M_11-12-2012_01-40-01PM-0	11/12/12 13:42
Cal Standard	2K31714-CAL3	M_11-12-2012_01-40-01PM-0	11/12/12 13:43
Cal Standard	2K31714-CAL4	M_11-12-2012_01-40-01PM-0	11/12/12 13:44
Cal Standard	2K31714-CAL5	M_11-12-2012_01-40-01PM-0	11/12/12 13:45
Cal Standard	2K31714-CAL6	M_11-12-2012_01-40-01PM-0	11/12/12 13:46
Cal Standard	2K31714-CAL7	M_11-12-2012_01-40-01PM-0	11/12/12 13:47
Cal Standard	2K31714-CAL8	M_11-12-2012_01-40-01PM-0	11/12/12 13:48
Initial Cal Check	2K31714-ICV1	M_11-12-2012_01-40-01PM-0	11/12/12 13:48
Initial Cal Blank	2K31714-ICB1	M_11-12-2012_01-40-01PM-0	11/12/12 13:49
Blank	2K12001-BLK1	M_11-12-2012_01-40-01PM-0	11/12/12 13:50
LCS	2K12001-BS1	M_11-12-2012_01-40-01PM-0	11/12/12 13:51
Calibration Check	2K31714-CCV1	M_11-12-2012_01-40-01PM-0	11/12/12 14:04
Calibration Blank	2K31714-CCB1	M_11-12-2012_01-40-01PM-0	11/12/12 14:05
GW0878	1211075-02	M_11-12-2012_01-40-01PM-0	11/12/12 14:14
Calibration Check	2K31714-CCV2	M_11-12-2012_01-40-01PM-0	11/12/12 14:15
Calibration Blank	2K31714-CCB2	M_11-12-2012_01-40-01PM-0	11/12/12 14:16

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_068
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31815	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31815-CCV1	110912-003	11/09/12 12:59
Calibration Blank	2K31815-CCB1	110912-004	11/09/12 13:16
Instrument RL Check	2K31815-CRL3	110912-011	11/09/12 15:41
LCS	2K09028-BS1	110912-012	11/09/12 15:58
Blank	2K09028-BLK1	110912-014	11/09/12 16:33
Calibration Check	2K31815-CCV2	110912-021	11/09/12 18:35
Calibration Blank	2K31815-CCB2	110912-022	11/09/12 18:52
GW0878	1211075-02	110912-032	11/09/12 21:46
Calibration Check	2K31815-CCV3	110912-034	11/09/12 22:21
Calibration Blank	2K31815-CCB3	110912-035	11/09/12 22:38