Data for SW8260B Forms

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1302087-01 [GW1007]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-03 [GW1008]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-05 [GW1009]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-07 [GW1010]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-09 [GW1011]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-11 [GW1012]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-13 [GW8070-AB]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302087-14 [GW8258-TB]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302101-01 [GW1013]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302101-03 [GW1014]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302101-05 [GW1015]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302101-07 [GW1016]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302101-09 [GW8071-AB]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13
1302101-10 [GW8259-TB]	3B19001	5.00/5.00	5.00	5.00	1.00			02/19/13

ANALYSIS DATA SHEET

GW1007

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-01 File ID: 0208701.D

Sampled: 02/11/13 15:04 Prepared: 02/19/13 12:43 Analyzed: 02/19/13 12:43

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1007

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-01 File ID: 0208701.D

Sampled: 02/11/13 15:04 Prepared: 02/19/13 12:43 Analyzed: 02/19/13 12:43

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.25	94.2	75 - 120	
Dibromofluoromethane	30.00	27.96	93.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.09	93.6	70 - 120	
Toluene-d8	30.00	29.30	97.7	85 - 120	

ANALYSIS DATA SHEET

GW1008

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-03 File ID: 0208703.D

Sampled: 02/11/13 14:02 Prepared: 02/19/13 13:11 Analyzed: 02/19/13 13:11

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1008

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-03 File ID: 0208703.D

Sampled: 02/11/13 14:02 Prepared: 02/19/13 13:11 Analyzed: 02/19/13 13:11

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.83	92.8	75 - 120	
Dibromofluoromethane	30.00	28.31	94.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.17	93.9	70 - 120	
Toluene-d8	30.00	29.09	97.0	85 - 120	

ANALYSIS DATA SHEET

GW1009

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-05 File ID: 0208705.D

Sampled: 02/11/13 11:31 Prepared: 02/19/13 13:39 Analyzed: 02/19/13 13:39

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1009

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-05 File ID: 0208705.D

Sampled: 02/11/13 11:31 Prepared: 02/19/13 13:39 Analyzed: 02/19/13 13:39

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.19	94.0	75 - 120	
Dibromofluoromethane	30.00	27.83	92.8	85 - 115	
1,2-Dichloroethane-d4	30.00	28.36	94.5	70 - 120	
Toluene-d8	30.00	29.07	96.9	85 - 120	

ANALYSIS DATA SHEET

GW1010

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-07 File ID: 0208707.D

Sampled: 02/11/13 12:32 Prepared: 02/19/13 14:07 Analyzed: 02/19/13 14:07

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1010

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-07 File ID: 0208707.D

Sampled: 02/11/13 12:32 Prepared: 02/19/13 14:07 Analyzed: 02/19/13 14:07

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.94	93.1	75 - 120	
Dibromofluoromethane	30.00	27.95	93.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.36	94.5	70 - 120	
Toluene-d8	30.00	29.48	98.3	85 - 120	

ANALYSIS DATA SHEET

GW1011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-09 File ID: 0208709.D

Sampled: 02/11/13 10:18 Prepared: 02/19/13 14:34 Analyzed: 02/19/13 14:34

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-09 File ID: 0208709.D

Sampled: 02/11/13 10:18 Prepared: 02/19/13 14:34 Analyzed: 02/19/13 14:34

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.99	93.3	75 - 120	
Dibromofluoromethane	30.00	28.57	95.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.54	95.1	70 - 120	
Toluene-d8	30.00	29.28	97.6	85 - 120	

ANALYSIS DATA SHEET

GW1012

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1302087-11
File ID: 0208711.D
Sampled: 02/11/13 10:18
Prepared: 02/19/13 15:02
Analyzed: 02/19/13 15:02
Solids:
Preparation: 5030B
Dilution: 1
Batch: 3B19001
Sequence: 3B05103
Calibration: 3015001
Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1012

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-11 File ID: 0208711.D

Sampled: 02/11/13 10:18 Prepared: 02/19/13 15:02 Analyzed: 02/19/13 15:02

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.97	93.2	75 - 120	
Dibromofluoromethane	30.00	27.85	92.8	85 - 115	
1,2-Dichloroethane-d4	30.00	28.53	95.1	70 - 120	
Toluene-d8	30.00	29.17	97.2	85 - 120	

ANALYSIS DATA SHEET

GW8070-AB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-13 File ID: 0208713.D

Sampled: 02/11/13 14:02 Prepared: 02/19/13 09:55 Analyzed: 02/19/13 09:55

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW8070-AB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-13 File ID: 0208713.D

Sampled: 02/11/13 14:02 Prepared: 02/19/13 09:55 Analyzed: 02/19/13 09:55

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.01	93.4	75 - 120	
Dibromofluoromethane	30.00	27.42	91.4	85 - 115	
1,2-Dichloroethane-d4	30.00	27.77	92.6	70 - 120	
Toluene-d8	30.00	28.90	96.3	85 - 120	

ANALYSIS DATA SHEET

GW8258-TB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-14 File ID: 0208714.D

Sampled: 02/11/13 08:00 Prepared: 02/19/13 10:23 Analyzed: 02/19/13 10:23

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW8258-TB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-14 File ID: 0208714.D

Sampled: 02/11/13 08:00 Prepared: 02/19/13 10:23 Analyzed: 02/19/13 10:23

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.96	93.2	75 - 120	
Dibromofluoromethane	30.00	27.68	92.3	85 - 115	
1,2-Dichloroethane-d4	30.00	28.37	94.6	70 - 120	
Toluene-d8	30.00	29.43	98.1	85 - 120	

ANALYSIS DATA SHEET

GW1013

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-01 File ID: 0210101.D

Sampled: 02/13/13 11:51 Prepared: 02/19/13 15:58 Analyzed: 02/19/13 15:58

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform	**0.260**	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	UX
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW1013

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-01 File ID: 0210101.D

Sampled: 02/13/13 11:51 Prepared: 02/19/13 15:58 Analyzed: 02/19/13 15:58

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.52	95.1	75 - 120	
Dibromofluoromethane	30.00	27.73	92.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.79	96.0	70 - 120	
Toluene-d8	30.00	29.86	99.5	85 - 120	

ANALYSIS DATA SHEET

GW1014

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-03 File ID: 0210103.D

Sampled: 02/13/13 14:12 Prepared: 02/19/13 16:26 Analyzed: 02/19/13 16:26

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1014

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-03 File ID: 0210103.D

Sampled: 02/13/13 14:12 Prepared: 02/19/13 16:26 Analyzed: 02/19/13 16:26

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.16	93.9	75 - 120	
Dibromofluoromethane	30.00	28.11	93.7	85 - 115	
1,2-Dichloroethane-d4	30.00	28.77	95.9	70 - 120	
Toluene-d8	30.00	29.53	98.4	85 - 120	

ANALYSIS DATA SHEET

GW1015

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-05 File ID: 0210105.D

Sampled: 02/13/13 10:32 Prepared: 02/19/13 16:54 Analyzed: 02/19/13 16:54

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1015

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-05 File ID: 0210105.D

Sampled: 02/13/13 10:32 Prepared: 02/19/13 16:54 Analyzed: 02/19/13 16:54

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

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	27.97	93.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.31	94.4	70 - 120	
Toluene-d8	30.00	29.39	98.0	85 - 120	

ANALYSIS DATA SHEET

GW1016

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-07 File ID: 0210107.D

Sampled: 02/13/13 14:32 Prepared: 02/19/13 17:22 Analyzed: 02/19/13 17:22

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW1016

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-07 File ID: 0210107.D

Sampled: 02/13/13 14:32 Prepared: 02/19/13 17:22 Analyzed: 02/19/13 17:22

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.15	93.8	75 - 120	
Dibromofluoromethane	30.00	28.32	94.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.54	95.1	70 - 120	
Toluene-d8	30.00	29.49	98.3	85 - 120	

ANALYSIS DATA SHEET

GW8071-AB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-09 File ID: 0210109.D

Sampled: 02/13/13 10:32 Prepared: 02/19/13 11:19 Analyzed: 02/19/13 11:19

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW8071-AB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-09 File ID: 0210109.D

Sampled: 02/13/13 10:32 Prepared: 02/19/13 11:19 Analyzed: 02/19/13 11:19

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.94	93.1	75 - 120	
Dibromofluoromethane	30.00	28.62	95.4	85 - 115	
1,2-Dichloroethane-d4	30.00	29.26	97.5	70 - 120	
Toluene-d8	30.00	29.08	96.9	85 - 120	

ANALYSIS DATA SHEET

GW8259-TB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-10 File ID: 0210110.D

Sampled: 02/13/13 08:00 Prepared: 02/19/13 11:47 Analyzed: 02/19/13 11:47

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

GW8259-TB

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-10 File ID: 0210110.D

Sampled: 02/13/13 08:00 Prepared: 02/19/13 11:47 Analyzed: 02/19/13 11:47

Solids: Preparation: 5030B Dilution: 1

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.21	94.0	75 - 120	
Dibromofluoromethane	30.00	27.78	92.6	85 - 115	
1,2-Dichloroethane-d4	30.00	28.57	95.2	70 - 120	
Toluene-d8	30.00	29.31	97.7	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05103
Instrument: MS-VOA5
Calibration: 3015001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (3B05103-CCV1) ug/L				Lab File ID: 0219CCV1.D		Analyzed: 02/19/13 07:36		
Bromofluorobenzene	30.00	97.1	80 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	94.7	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.6	80 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.5	80 - 120	9.3	9.3	0.0000	+/-1.000	
LCS (3B19001-BS1) ug/L				Lab File ID: 0219LCS1.D		Analyzed: 02/19/13 08:04		
Bromofluorobenzene	30.00	96.5	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.7	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.7	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	99.2	85 - 120	9.31	9.3	0.0100	+/-1.000	
Blank (3B19001-BLK1) ug/L				Lab File ID: 0219BLK1.D		Analyzed: 02/19/13 09:28		
Bromofluorobenzene	30.00	94.3	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.1	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.6	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	9.31	9.3	0.0100	+/-1.000	
GW8070-AB (1302087-13) ug/L				Lab File ID: 0208713.D		Analyzed: 02/19/13 09:55		
Bromofluorobenzene	30.00	93.4	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	91.4	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.6	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW8258-TB (1302087-14) ug/L				Lab File ID: 0208714.D		Analyzed: 02/19/13 10:23		
Bromofluorobenzene	30.00	93.2	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	92.3	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.6	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW8071-AB (1302101-09) ug/L				Lab File ID: 0210109.D		Analyzed: 02/19/13 11:19		
Bromofluorobenzene	30.00	93.1	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.4	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.5	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW8259-TB (1302101-10) ug/L				Lab File ID: 0210110.D		Analyzed: 02/19/13 11:47		
Bromofluorobenzene	30.00	94.0	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	92.6	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.2	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	97.7	85 - 120	9.3	9.3	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05103
Instrument: MS-VOA5
Calibration: 3015001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW1007 (1302087-01) ug/L				Lab File ID: 0208701.D		Analyzed: 02/19/13 12:43		
Bromofluorobenzene	30.00	94.2	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.2	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.6	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	97.7	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1008 (1302087-03) ug/L				Lab File ID: 0208703.D		Analyzed: 02/19/13 13:11		
Bromofluorobenzene	30.00	92.8	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.4	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.9	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	97.0	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1009 (1302087-05) ug/L				Lab File ID: 0208705.D		Analyzed: 02/19/13 13:39		
Bromofluorobenzene	30.00	94.0	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	92.8	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.5	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1010 (1302087-07) ug/L				Lab File ID: 0208707.D		Analyzed: 02/19/13 14:07		
Bromofluorobenzene	30.00	93.1	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.2	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.5	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	98.3	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1011 (1302087-09) ug/L				Lab File ID: 0208709.D		Analyzed: 02/19/13 14:34		
Bromofluorobenzene	30.00	93.3	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.2	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.1	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	97.6	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1012 (1302087-11) ug/L				Lab File ID: 0208711.D		Analyzed: 02/19/13 15:02		
Bromofluorobenzene	30.00	93.2	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	92.8	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.1	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	97.2	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1013 (1302101-01) ug/L				Lab File ID: 0210101.D		Analyzed: 02/19/13 15:58		
Bromofluorobenzene	30.00	95.1	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	92.4	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.0	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	9.31	9.3	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05103
Instrument: MS-VOA5
Calibration: 3015001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW1014 (1302101-03) ug/L				Lab File ID: 0210103.D		Analyzed: 02/19/13 16:26		
Bromofluorobenzene	30.00	93.9	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.7	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.9	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1015 (1302101-05) ug/L				Lab File ID: 0210105.D		Analyzed: 02/19/13 16:54		
Bromofluorobenzene	30.00	93.5	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.2	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.4	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW1016 (1302101-07) ug/L				Lab File ID: 0210107.D		Analyzed: 02/19/13 17:22		
Bromofluorobenzene	30.00	93.8	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.4	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.1	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	98.3	85 - 120	9.3	9.3	0.0000	+/-1.000	
LCS Dup (3B19001-BSD1) ug/L				Lab File ID: 0219LCD1.D		Analyzed: 02/19/13 18:17		
Bromofluorobenzene	30.00	96.7	75 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	92.3	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.1	70 - 120	7.05	7.06	-0.0100	+/-1.000	
Toluene-d8	30.00	99.6	85 - 120	9.3	9.3	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B19001	Laboratory ID:	3B19001-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	88.8	88.8	40 - 140
Benzene	50.00	46.0	92.0	80 - 120
Bromobenzene	50.00	49.0	98.1	75 - 125
Bromochloromethane	50.00	41.7	83.4	65 - 130
Bromodichloromethane	50.00	47.2	94.3	75 - 120
Bromoform	50.00	46.5	93.1	70 - 130
Bromomethane	50.00	46.4	92.9	30 - 145
n-Butylbenzene	50.00	46.6	93.3	70 - 135
2-Butanone	100.0	104	104	30 - 150
sec-Butylbenzene	50.00	47.0	93.9	70 - 125
tert-Butylbenzene	50.00	47.1	94.1	70 - 130
Carbon disulfide	50.00	40.0	79.9	35 - 160
Carbon tetrachloride	50.00	47.2	94.4	65 - 140
Chlorobenzene	50.00	42.8	85.6	80 - 120
Chloroethane	50.00	49.0	98.0	60 - 135
Chloroform	50.00	46.1	92.3	65 - 135
Chloromethane	50.00	47.0	94.0	40 - 125
2-Chlorotoluene	50.00	51.1	102	75 - 125
4-Chlorotoluene	50.00	48.6	97.1	75 - 130
Dibromochloromethane	50.00	44.2	88.4	60 - 135
1,2-Dibromo-3-chloropropane	50.00	48.4	96.7	50 - 130
1,2-Dibromoethane (EDB)	50.00	43.6	87.2	80 - 120
Dibromomethane	50.00	45.0	90.0	75 - 125
1,2-Dichlorobenzene	50.00	45.9	91.8	70 - 120
1,3-Dichlorobenzene	50.00	45.4	90.8	75 - 125
1,4-Dichlorobenzene	50.00	48.8	97.5	75 - 125
Dichlorodifluoromethane	50.00	59.2	118	30 - 155
1,1-Dichloroethane	50.00	45.8	91.6	70 - 135
1,2-Dichloroethane	50.00	48.6	97.2	70 - 130
1,1-Dichloroethene	50.00	39.8	79.5	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B19001	Laboratory ID:	3B19001-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	44.8	89.6	70 - 125
trans-1,2-Dichloroethene	50.00	43.9	87.7	60 - 140
1,2-Dichloropropane	50.00	46.4	92.8	75 - 125
1,3-Dichloropropane	50.00	47.5	95.0	75 - 125
2,2-Dichloropropane	50.00	52.7	105	70 - 135
1,1-Dichloropropene	50.00	47.2	94.3	75 - 130
cis-1,3-Dichloropropene	50.00	52.8	106	70 - 130
trans-1,3-Dichloropropene	50.00	50.2	100	55 - 140
Ethylbenzene	50.00	48.5	96.9	75 - 125
Hexachlorobutadiene	50.00	52.5	105	50 - 140
2-Hexanone	100.0	112	112	55 - 130
Isopropylbenzene	50.00	47.5	95.1	75 - 125
p-Isopropyltoluene	50.00	45.0	89.9	75 - 130
Methylene chloride	50.00	41.6	83.2	55 - 140
Naphthalene	50.00	34.6	69.3	55 - 140
4-Methyl-2-pentanone	100.0	112	112	60 - 135
Methyl t-Butyl Ether	50.00	47.5	95.0	65 - 125
n-Propylbenzene	50.00	50.6	101	70 - 130
Styrene	50.00	48.3	96.6	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.8	93.6	65 - 130
1,1,1,2-Tetrachloroethane	50.00	44.1	88.3	80 - 130
Tetrachloroethene	50.00	40.8	81.6	45 - 150
Toluene	50.00	47.6	95.2	75 - 120
1,2,3-Trichlorobenzene	50.00	41.0	82.1	55 - 140
1,2,4-Trichlorobenzene	50.00	40.9	81.8	65 - 135
1,1,2-Trichloroethane	50.00	46.5	93.0	75 - 125
1,1,1-Trichloroethane	50.00	47.3	94.7	65 - 130
Trichloroethene	50.00	45.9	91.7	70 - 125
Trichlorofluoromethane	50.00	47.6	95.2	60 - 145
1,2,3-Trichloropropane	50.00	45.6	91.2	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B19001	Laboratory ID:	3B19001-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	51.0	102	75 - 130
1,2,4-Trimethylbenzene	50.00	47.3	94.6	75 - 130
Vinyl chloride	50.00	50.6	101	50 - 145
Xylenes (total)	150.0	142	94.4	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	90.0	90.0	1.38	30	40 - 140
Benzene	50.00	46.0	91.9	0.0217	30	80 - 120
Bromobenzene	50.00	48.3	96.6	1.58	30	75 - 125
Bromochloromethane	50.00	42.8	85.5	2.53	30	65 - 130
Bromodichloromethane	50.00	46.2	92.3	2.12	30	75 - 120
Bromoform	50.00	45.5	90.9	2.30	30	70 - 130
Bromomethane	50.00	41.4	82.9	11.4	30	30 - 145
n-Butylbenzene	50.00	42.8	85.7	8.47	30	70 - 135
2-Butanone	100.0	106	106	1.97	30	30 - 150
sec-Butylbenzene	50.00	44.7	89.4	4.95	30	70 - 125
tert-Butylbenzene	50.00	44.9	89.8	4.67	30	70 - 130
Carbon disulfide	50.00	39.4	78.8	1.39	30	35 - 160
Carbon tetrachloride	50.00	45.2	90.4	4.33	30	65 - 140
Chlorobenzene	50.00	41.9	83.8	2.20	30	80 - 120
Chloroethane	50.00	48.0	95.9	2.19	30	60 - 135
Chloroform	50.00	45.9	91.9	0.435	30	65 - 135
Chloromethane	50.00	45.7	91.4	2.76	30	40 - 125
2-Chlorotoluene	50.00	49.5	98.9	3.22	30	75 - 125
4-Chlorotoluene	50.00	46.5	93.1	4.25	30	75 - 130
Dibromochloromethane	50.00	44.5	89.0	0.744	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.7	95.3	1.42	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	44.4	88.7	1.73	30	80 - 120
Dibromomethane	50.00	45.4	90.8	0.841	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B19001	Laboratory ID:	3B19001-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	50.00	44.4	88.9	3.21	30	70 - 120
1,3-Dichlorobenzene	50.00	43.3	86.7	4.71	30	75 - 125
1,4-Dichlorobenzene	50.00	46.8	93.7	4.06	30	75 - 125
Dichlorodifluoromethane	50.00	58.1	116	1.91	30	30 - 155
1,1-Dichloroethane	50.00	45.1	90.2	1.54	30	70 - 135
1,2-Dichloroethane	50.00	48.2	96.5	0.744	30	70 - 130
1,1-Dichloroethene	50.00	40.8	81.5	2.48	30	70 - 130
cis-1,2-Dichloroethene	50.00	44.1	88.3	1.53	30	70 - 125
trans-1,2-Dichloroethene	50.00	44.2	88.5	0.840	30	60 - 140
1,2-Dichloropropane	50.00	45.7	91.5	1.48	30	75 - 125
1,3-Dichloropropane	50.00	48.7	97.3	2.43	30	75 - 125
2,2-Dichloropropane	50.00	44.0	88.0	18.0	30	70 - 135
1,1-Dichloropropene	50.00	46.7	93.4	0.980	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.0	102	3.47	30	70 - 130
trans-1,3-Dichloropropene	50.00	48.3	96.6	3.94	30	55 - 140
Ethylbenzene	50.00	48.3	96.7	0.269	30	75 - 125
Hexachlorobutadiene	50.00	43.3	86.5	19.4	30	50 - 140
2-Hexanone	100.0	114	114	2.00	30	55 - 130
Isopropylbenzene	50.00	46.6	93.2	2.02	30	75 - 125
p-Isopropyltoluene	50.00	41.7	83.3	7.62	30	75 - 130
Methylene chloride	50.00	42.9	85.7	3.01	30	55 - 140
Naphthalene	50.00	32.4	64.8	6.68	30	55 - 140
4-Methyl-2-pentanone	100.0	114	114	1.37	30	60 - 135
Methyl t-Butyl Ether	50.00	47.3	94.6	0.359	30	65 - 125
n-Propylbenzene	50.00	48.3	96.6	4.63	30	70 - 130
Styrene	50.00	47.4	94.9	1.78	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.0	93.9	0.320	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	43.8	87.6	0.796	30	80 - 130
Tetrachloroethene	50.00	40.0	79.9	2.06	30	45 - 150
Toluene	50.00	47.2	94.3	0.950	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B19001	Laboratory ID:	3B19001-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2,3-Trichlorobenzene	50.00	37.7	75.3	8.59	30	55 - 140
1,2,4-Trichlorobenzene	50.00	38.5	77.0	6.05	30	65 - 135
1,1,2-Trichloroethane	50.00	48.0	96.0	3.11	30	75 - 125
1,1,1-Trichloroethane	50.00	46.5	93.0	1.77	30	65 - 130
Trichloroethene	50.00	46.4	92.7	1.04	30	70 - 125
Trichlorofluoromethane	50.00	47.6	95.2	0.0840	30	60 - 145
1,2,3-Trichloropropane	50.00	47.2	94.3	3.39	30	75 - 125
1,3,5-Trimethylbenzene	50.00	48.0	96.1	5.96	30	75 - 130
1,2,4-Trimethylbenzene	50.00	44.4	88.9	6.24	30	75 - 130
Vinyl chloride	50.00	48.5	97.0	4.24	30	50 - 145
Xylenes (total)	150.0	138	92.2	2.33	30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Batch: 3B19001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW1007	1302087-01	02/19/13 12:43	5.00	5.00
GW1008	1302087-03	02/19/13 13:11	5.00	5.00
GW1009	1302087-05	02/19/13 13:39	5.00	5.00
GW1010	1302087-07	02/19/13 14:07	5.00	5.00
GW1011	1302087-09	02/19/13 14:34	5.00	5.00
GW1012	1302087-11	02/19/13 15:02	5.00	5.00
GW8070-AB	1302087-13	02/19/13 09:55	5.00	5.00
GW8258-TB	1302087-14	02/19/13 10:23	5.00	5.00
GW1013	1302101-01	02/19/13 15:58	5.00	5.00
GW1014	1302101-03	02/19/13 16:26	5.00	5.00
GW1015	1302101-05	02/19/13 16:54	5.00	5.00
GW1016	1302101-07	02/19/13 17:22	5.00	5.00
GW8071-AB	1302101-09	02/19/13 11:19	5.00	5.00
GW8259-TB	1302101-10	02/19/13 11:47	5.00	5.00
Blank	3B19001-BLK1	02/19/13 09:28	5.00	5.00
LCS	3B19001-BS1	02/19/13 08:04	5.00	5.00
LCS Dup	3B19001-BSD1	02/19/13 18:17	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B19001-BLK1 File ID: 0219BLK1.D

Sampled: Prepared: Analyzed: 02/19/13 09:28

Solids: Preparation: 5030B Dilution:

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B19001-BLK1 File ID: 0219BLK1.D

Sampled: Prepared: Analyzed: 02/19/13 09:28

Solids: Preparation: 5030B Dilution:

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.28	94.3	75 - 120	
Dibromofluoromethane	30.00	27.94	93.1	85 - 115	
1,2-Dichloroethane-d4	30.00	28.37	94.6	70 - 120	
Toluene-d8	30.00	29.59	98.6	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B19001-BS1 File ID: 0219LCS1.D

Sampled: Prepared: Analyzed: 02/19/13 08:04

Solids: Preparation: 5030B Dilution:

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**88.8**	2.50	5.00	10.0	
71-43-2	Benzene	**46.0**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**49.0**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**41.7**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**47.2**	0.250	0.500	1.00	
75-25-2	Bromoform	**46.5**	0.250	0.500	1.00	
74-83-9	Bromomethane	**46.4**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**46.6**	0.250	0.500	1.00	
78-93-3	2-Butanone	**104**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**47.0**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**47.1**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**40.0**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**47.2**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**42.8**	0.250	0.500	1.00	
75-00-3	Chloroethane	**49.0**	0.500	1.00	2.00	
67-66-3	Chloroform	**46.1**	0.250	0.500	1.00	
74-87-3	Chloromethane	**47.0**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**51.1**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**48.6**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**44.2**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**48.4**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**43.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**45.0**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**45.9**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**45.4**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**48.8**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**59.2**	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	**45.8**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**48.6**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**39.8**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**44.8**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**43.9**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**46.4**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**47.5**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**52.7**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**47.2**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**52.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**50.2**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**48.5**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**52.5**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B19001-BS1 File ID: 0219LCS1.D

Sampled: Prepared: Analyzed: 02/19/13 08:04

Solids: Preparation: 5030B Dilution:

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**112**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**47.5**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**45.0**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**41.6**	0.500	1.00	2.00	
91-20-3	Naphthalene	**34.6**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**112**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**47.5**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**50.6**	0.250	0.500	1.00	
100-42-5	Styrene	**48.3**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**46.8**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**44.1**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**40.8**	0.250	0.500	1.00	
108-88-3	Toluene	**47.6**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**41.0**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**40.9**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**46.5**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**47.3**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.9**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.6**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**45.6**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**51.0**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**47.3**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**50.6**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**142**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.94	96.5	75 - 120	
Dibromofluoromethane	30.00	28.10	93.7	85 - 115	
1,2-Dichloroethane-d4	30.00	27.81	92.7	70 - 120	
Toluene-d8	30.00	29.77	99.2	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B19001-BSD1 File ID: 0219LCD1.D

Sampled: Prepared: Analyzed: 02/19/13 18:17

Solids: Preparation: 5030B Dilution:

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**90.0**	2.50	5.00	10.0	
71-43-2	Benzene	**46.0**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**48.3**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**42.8**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.2**	0.250	0.500	1.00	
75-25-2	Bromoform	**45.5**	0.250	0.500	1.00	
74-83-9	Bromomethane	**41.4**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**42.8**	0.250	0.500	1.00	
78-93-3	2-Butanone	**106**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**44.7**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**44.9**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**39.4**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**45.2**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**41.9**	0.250	0.500	1.00	
75-00-3	Chloroethane	**48.0**	0.500	1.00	2.00	
67-66-3	Chloroform	**45.9**	0.250	0.500	1.00	
74-87-3	Chloromethane	**45.7**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**49.5**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**46.5**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**44.5**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**47.7**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**44.4**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**45.4**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**44.4**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**43.3**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.8**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**58.1**	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	**45.1**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**48.2**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**40.8**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**44.1**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**44.2**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**45.7**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**48.7**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**44.0**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**46.7**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**51.0**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**48.3**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**48.3**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**43.3**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B19001-BSD1 File ID: 0219LCD1.D

Sampled: Prepared: Analyzed: 02/19/13 18:17

Solids: Preparation: 5030B Dilution:

Batch: 3B19001 Sequence: 3B05103 Calibration: 3015001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**114**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**46.6**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**41.7**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**42.9**	0.500	1.00	2.00	
91-20-3	Naphthalene	**32.4**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**114**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**47.3**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**48.3**	0.250	0.500	1.00	
100-42-5	Styrene	**47.4**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**47.0**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**43.8**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**40.0**	0.250	0.500	1.00	
108-88-3	Toluene	**47.2**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**37.7**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**38.5**	0.250	0.500	2.00	
79-00-5	1,1,2-Trichloroethane	**48.0**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**46.5**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**46.4**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.6**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**47.2**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**48.0**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**44.4**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**48.5**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**138**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.00	96.7	75 - 120	
Dibromofluoromethane	30.00	27.70	92.3	85 - 115	
1,2-Dichloroethane-d4	30.00	29.42	98.1	70 - 120	
Toluene-d8	30.00	29.89	99.6	85 - 120	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0114TUN1.D	Injection Date:	01/14/13
Instrument ID:	MS-VOA5	Injection Time:	11:03
Sequence:	3A01502	Lab Sample ID:	3A01502-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.5	PASS
75	30 - 60% of 95	45.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.71	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	88.3	PASS
175	5 - 9% of 174	7.59	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.81	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0219TUN1.D	Injection Date:	02/19/13
Instrument ID:	MS-VOA5	Injection Time:	07:07
Sequence:	3B05103	Lab Sample ID:	3B05103-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.7	PASS
75	30 - 60% of 95	47.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.53	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.5	PASS
175	5 - 9% of 174	7.32	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.72	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	3A01502	Instrument:	MS-VOA5
Calibration:	3015001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	3A01502-TUN1	0114TUN1.D	01/14/13 11:03
Cal Standard	3A01502-CAL1	0114CAL1.D	01/14/13 12:28
Cal Standard	3A01502-CAL2	0114CAL2.D	01/14/13 12:56
Cal Standard	3A01502-CAL3	0114CAL3.D	01/14/13 13:24
Cal Standard	3A01502-CAL5	0114CAL5.D	01/14/13 14:19
Cal Standard	3A01502-CAL6	0114CAL6.D	01/14/13 14:47
Cal Standard	3A01502-CAL7	0114CAL7.D	01/14/13 15:15
Cal Standard	3A01502-CAL8	0114CAL8.D	01/14/13 15:43
Cal Standard	3A01502-CAL9	0114CAL9.D	01/14/13 16:10
Initial Cal Check	3A01502-ICV2	0114ICV2.D	01/14/13 18:02

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	3B05103	Instrument:	MS-VOA5
Calibration:	3015001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	3B05103-TUN1	0219TUN1.D	02/19/13 07:07
Calibration Check	3B05103-CCV1	0219CCV1.D	02/19/13 07:36
LCS	3B19001-BS1	0219LCS1.D	02/19/13 08:04
Blank	3B19001-BLK1	0219BLK1.D	02/19/13 09:28
GW8070-AB	1302087-13	0208713.D	02/19/13 09:55
GW8258-TB	1302087-14	0208714.D	02/19/13 10:23
GW8071-AB	1302101-09	0210109.D	02/19/13 11:19
GW8259-TB	1302101-10	0210110.D	02/19/13 11:47
GW1007	1302087-01	0208701.D	02/19/13 12:43
GW1008	1302087-03	0208703.D	02/19/13 13:11
GW1009	1302087-05	0208705.D	02/19/13 13:39
GW1010	1302087-07	0208707.D	02/19/13 14:07
GW1011	1302087-09	0208709.D	02/19/13 14:34
GW1012	1302087-11	0208711.D	02/19/13 15:02
GW1013	1302101-01	0210101.D	02/19/13 15:58
GW1014	1302101-03	0210103.D	02/19/13 16:26
GW1015	1302101-05	0210105.D	02/19/13 16:54
GW1016	1302101-07	0210107.D	02/19/13 17:22
LCS Dup	3B19001-BSD1	0219LCD1.D	02/19/13 18:17

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05103
Instrument: MS-VOA5
Calibration: 3015001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (3B05103-CCV1)			Lab File ID: 0219CCV1.D			Analyzed: 02/19/13 07:36			
Fluorobenzene	1270167	7.6	1386812	7.6	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	524813	10.74	562676	10.73	93	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	443722	13.13	537036	13.14	83	50 - 200	-0.0100	+/-0.50	
LCS (3B19001-BS1)			Lab File ID: 0219LCS1.D			Analyzed: 02/19/13 08:04			
Fluorobenzene	1282662	7.59	1270167	7.6	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	524011	10.74	524813	10.74	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	423689	13.13	443722	13.13	95	50 - 200	0.0000	+/-0.50	
Blank (3B19001-BLK1)			Lab File ID: 0219BLK1.D			Analyzed: 02/19/13 09:28			
Fluorobenzene	1221580	7.59	1270167	7.6	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	505746	10.74	524813	10.74	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	353055	13.13	443722	13.13	80	50 - 200	0.0000	+/-0.50	
GW8070-AB (1302087-13)			Lab File ID: 0208713.D			Analyzed: 02/19/13 09:55			
Fluorobenzene	1209568	7.6	1270167	7.6	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	509738	10.74	524813	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	345387	13.13	443722	13.13	78	50 - 200	0.0000	+/-0.50	
GW8258-TB (1302087-14)			Lab File ID: 0208714.D			Analyzed: 02/19/13 10:23			
Fluorobenzene	1204036	7.6	1270167	7.6	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	505311	10.74	524813	10.74	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	344472	13.14	443722	13.13	78	50 - 200	0.0100	+/-0.50	
GW8071-AB (1302101-09)			Lab File ID: 0210109.D			Analyzed: 02/19/13 11:19			
Fluorobenzene	1186531	7.6	1270167	7.6	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	506949	10.73	524813	10.74	97	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	346182	13.14	443722	13.13	78	50 - 200	0.0100	+/-0.50	
GW8259-TB (1302101-10)			Lab File ID: 0210110.D			Analyzed: 02/19/13 11:47			
Fluorobenzene	1173490	7.6	1270167	7.6	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	491686	10.74	524813	10.74	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	342331	13.14	443722	13.13	77	50 - 200	0.0100	+/-0.50	
GW1007 (1302087-01)			Lab File ID: 0208701.D			Analyzed: 02/19/13 12:43			
Fluorobenzene	1184216	7.6	1270167	7.6	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	495924	10.74	524813	10.74	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	342158	13.13	443722	13.13	77	50 - 200	0.0000	+/-0.50	
GW1008 (1302087-03)			Lab File ID: 0208703.D			Analyzed: 02/19/13 13:11			
Fluorobenzene	1177005	7.6	1270167	7.6	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	497592	10.74	524813	10.74	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	334723	13.13	443722	13.13	75	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05103
Instrument: MS-VOA5
Calibration: 3015001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW1009 (1302087-05)			Lab File ID: 0208705.D			Analyzed: 02/19/13 13:39			
Fluorobenzene	1190425	7.6	1270167	7.6	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	496797	10.74	524813	10.74	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	340174	13.13	443722	13.13	77	50 - 200	0.0000	+/-0.50	
GW1010 (1302087-07)			Lab File ID: 0208707.D			Analyzed: 02/19/13 14:07			
Fluorobenzene	1196783	7.6	1270167	7.6	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	495833	10.73	524813	10.74	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	339777	13.14	443722	13.13	77	50 - 200	0.0100	+/-0.50	
GW1011 (1302087-09)			Lab File ID: 0208709.D			Analyzed: 02/19/13 14:34			
Fluorobenzene	1178595	7.6	1270167	7.6	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	500098	10.74	524813	10.74	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	334889	13.13	443722	13.13	75	50 - 200	0.0000	+/-0.50	
GW1012 (1302087-11)			Lab File ID: 0208711.D			Analyzed: 02/19/13 15:02			
Fluorobenzene	1191938	7.59	1270167	7.6	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	498521	10.74	524813	10.74	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	336903	13.13	443722	13.13	76	50 - 200	0.0000	+/-0.50	
GW1013 (1302101-01)			Lab File ID: 0210101.D			Analyzed: 02/19/13 15:58			
Fluorobenzene	1195843	7.59	1270167	7.6	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	493132	10.73	524813	10.74	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	339956	13.13	443722	13.13	77	50 - 200	0.0000	+/-0.50	
GW1014 (1302101-03)			Lab File ID: 0210103.D			Analyzed: 02/19/13 16:26			
Fluorobenzene	1192068	7.59	1270167	7.6	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	495492	10.73	524813	10.74	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	343217	13.13	443722	13.13	77	50 - 200	0.0000	+/-0.50	
GW1015 (1302101-05)			Lab File ID: 0210105.D			Analyzed: 02/19/13 16:54			
Fluorobenzene	1194110	7.59	1270167	7.6	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	498539	10.73	524813	10.74	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	332825	13.13	443722	13.13	75	50 - 200	0.0000	+/-0.50	
GW1016 (1302101-07)			Lab File ID: 0210107.D			Analyzed: 02/19/13 17:22			
Fluorobenzene	1198097	7.59	1270167	7.6	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	500853	10.73	524813	10.74	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	341694	13.13	443722	13.13	77	50 - 200	0.0000	+/-0.50	
LCS Dup (3B19001-BSD1)			Lab File ID: 0219LCD1.D			Analyzed: 02/19/13 18:17			
Fluorobenzene	1245035	7.6	1270167	7.6	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	505713	10.73	524813	10.74	96	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	410827	13.13	443722	13.13	93	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

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	0.1929244	2	0.1672162	4	0.1506989	20	0.1208705	100	0.1277185	200	0.1242547
Acetonitrile	5	0.0651547	10	6.445973E-02	20	6.164226E-02	100	6.133063E-02	500	6.068026E-02	1000	5.744228E-02
Acrolein	2.508	1.599099E-02	5.016	1.293139E-02	10.03	9.436593E-03	50.15	1.149318E-02	250.8	0.0174144	501.5	3.590754E-02
Acrylonitrile	2.498	0.1161832	4.996	0.1067271	9.994	0.1184856	49.97	0.1230444	249.8	0.1181285	499.7	0.1138522
Benzene	0.5	1.198232	1	1.202135	2	1.146269	10	1.163266	50	1.103451	100	1.044994
Allyl chloride	0.5	0.1288925	1	0.1538927	2	0.1447353	10	0.1605389	50	0.1538841	100	0.1508592
Bromobenzene	0.5	0.8048552	1	0.7885816	2	0.8381654	10	0.8543317	50	0.8141348	100	0.836611
Bromochloromethane	0.5	0.1778227	1	0.1778115	2	0.1852009	10	0.1868664	50	0.1821479	100	0.1850468
Tert-Amyl Methyl Ether	0.5	0.7310121	1	0.7801918	2	0.8003589	10	0.8102789	50	0.8039189	100	0.7779215
Bromodichloromethane	0.5	0.3893704	1	0.3673361	2	0.3858294	10	0.4049998	50	0.3974455	100	0.4010862
Bromoform	0.5	0.4411392	1	0.4424554	2	0.4698967	10	0.5133223	50	0.5588874	100	0.5890621
Bromomethane	0.5	0.3231634	1	0.239947	2	0.2513116	10	0.2499319	50	0.2455145	100	0.2475976
Bromofluorobenzene	30	0.9193447	35	0.8982906	40	0.9035987	60	0.8592836	70	0.8791221	30	0.9902733
n-Butylbenzene	0.5	1.68888	1	1.615666	2	1.657823	10	1.692981	50	1.658319	100	1.702877
2-Butanone	1	0.1637568	2	0.1988789	4	0.1980386	20	0.1805294	100	0.1753203	200	0.175068
sec-Butylbenzene	0.5	2.529329	1	2.480932	2	2.311389	10	2.439612	50	2.290144	100	2.254036
tert-Butylbenzene	0.5	1.791887	1	1.944465	2	1.855873	10	1.903892	50	1.849441	100	1.847527
Carbon disulfide	0.5	1.039923	1	0.9232123	2	0.8509915	10	0.9606679	50	0.925753	100	0.9086272
Carbon tetrachloride	0.5	0.3497208	1	0.3191908	2	0.3176752	10	0.3349064	50	0.3367104	100	0.3468976
Chlorobenzene	0.5	1.687474	1	1.739628	2	1.70831	10	1.70512	50	1.684236	100	1.65356
Chloroethane	0.5	0.243284	1	0.1860579	2	0.1857169	10	0.2004699	50	0.19725	100	0.1926341
Chloroform	0.5	0.7932417	1	0.6256633	2	0.578132	10	0.5474813	50	0.508508	100	0.5024251
2-Chloroethyl vinyl ether	0.9975	0.1130584	1.995	0.1089635	3.99	0.1222233	19.95	0.117682	99.75	0.1160952	199.5	0.1205606
Chloromethane	0.5	0.4367677	1	0.3791314	2	0.3530826	10	0.3934826	50	0.3880374	100	0.3719879
1-Chlorohexane	0.5	1.031974	1	0.9348039	2	0.787873	10	0.7907927	50	0.7539979	100	0.7604095
2-Chlorotoluene	0.5	1.970827	1	1.958388	2	1.967608	10	2.003562	50	1.886349	100	1.854962
Chloroprene	0.5	0.4779917	1	0.4807145	2	0.4840899	10	0.4893137	50	0.4728022	100	0.4729755
4-Chlorotoluene	0.5	2.487803	1	2.301752	2	2.273924	10	2.236391	50	2.140052	100	2.102283
Cyclohexane	0.5	0.4601763	1	0.5083463	2	0.455592	10	0.4795055	50	0.4374524	100	0.4473295
Dibromochloromethane	0.5	0.7017898	1	0.7363202	2	0.6904755	10	0.7775585	50	0.8110108	100	0.838881
1,2-Dibromo-3-chloropropane	0.5	0.1214509	1	0.1295382	2	0.1137994	10	0.1220874	50	0.1363845	100	0.1464952

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

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 (EDB)	0.5	0.6903665	1	0.6753397	2	0.7010402	10	0.7157685	50	0.7159992	100	0.7214761
Dibromomethane	0.5	0.2187567	1	0.2083356	2	0.2171485	10	0.2247737	50	0.2201384	100	0.2175016
1,2-Dichlorobenzene	0.5	1.33445	1	1.348878	2	1.329319	10	1.353154	50	1.300669	100	1.310405
1,3-Dichlorobenzene	0.5	1.408335	1	1.516598	2	1.422334	10	1.438015	50	1.351118	100	1.375203
trans-1,4-Dichloro-2-butene	0.5	0.2784958	1	0.2172	2	0.2126392	10	0.2241013	50	0.2436324	100	0.2541858
cis-1,4-Dichloro-2-butene	0.5	0.2385875	1	0.2299985	2	0.2416318	10	0.2415675	50	0.239505	100	0.2476024
1,4-Dichlorobenzene	0.5	1.424622	1	1.478738	2	1.434937	10	1.438196	50	1.376535	100	1.390125
Dichlorodifluoromethane	0.5	0.1835402	1	0.2147769	2	0.1997888	10	0.259044	50	0.2627093	100	0.2665071
1,1-Dichloroethane	0.5	0.6080857	1	0.6409664	2	0.5890071	10	0.6168682	50	0.611152	100	0.5883229
1,2-Dichloroethane	0.5	0.4310502	1	0.4500878	2	0.4325671	10	0.428201	50	0.4096675	100	0.4123967
1,1-Dichloroethene	0.5	0.3096154	1	0.2790048	2	0.246304	10	0.2843023	50	0.2930649	100	0.2878255
cis-1,2-Dichloroethene	0.5	0.3152086	1	0.3389864	2	0.3323642	10	0.3264196	50	0.3099071	100	0.31078
trans-1,2-Dichloroethene	0.5	0.3160372	1	0.3030877	2	0.3047161	10	0.3187164	50	0.3121985	100	0.3011792
1,2-Dichloroethene (total)	1	0.3156229	2	0.3210371	4	0.3185401	20	0.322568	100	0.3110528	200	0.3059796
1,2-Dichloropropane	0.5	0.3423874	1	0.3768955	2	0.348601	10	0.3603336	50	0.3368819	100	0.3274988
1,3-Dichloropropane	0.5	1.049357	1	1.080326	2	1.091	10	1.062378	50	1.042433	100	1.040614
2,2-Dichloropropane	0.5	0.3669147	1	0.406517	2	0.3784444	10	0.3718966	50	0.3669859	100	0.3660297
1,1-Dichloropropene	0.5	0.4177922	1	0.4217381	2	0.3898051	10	0.4099852	50	0.3774624	100	0.3749388
cis-1,3-Dichloropropene	0.5	0.4469183	1	0.3973064	2	0.4633513	10	0.4555331	50	0.4446869	100	0.4392236
trans-1,3-Dichloropropene	0.5	0.8493991	1	0.968858	2	0.9188363	10	0.9648393	50	0.9883243	100	0.966207
Diisopropyl Ether	0.5	1.491937	1	1.508546	2	1.415598	10	1.476009	50	1.30506	100	1.269111
1,4-Dioxane	10	3.21299E-03	20	2.010328E-03	40	2.709172E-03	200	2.731019E-03	1000	2.64134E-03	2000	2.651953E-03
Ethylbenzene	0.5	2.784909	1	2.846039	2	2.813026	10	2.778109	50	2.690058	100	2.581371
Ethyl tert-Butyl Ether	0.5	1.051482	1	1.012959	2	1.041514	10	1.000807	50	0.9616282	100	0.9375609
Ethyl Methacrylate	0.5	0.7351658	1	0.7870053	2	0.792158	10	0.8285741	50	0.8565282	100	0.8502257
Hexachlorobutadiene	0.5	0.3570183	1	0.3140725	2	0.3048596	10	0.3090114	50	0.2969977	100	0.3186043
Hexane	0.4982	0.4323997	0.9964	0.4030653	1.993	0.3496325	9.965	0.3854466	49.82	0.3385106	99.65	0.3502374
2-Hexanone	1	0.5906358	2	0.4999464	4	0.5501788	20	0.5396788	100	0.5486032	200	0.5456621
Iodomethane	0.5	~~0.4060258~~	1	0.3872753	2	0.3949948	10	0.4832299	50	0.5375454	100	0.5644055
Isobutyl alcohol	10	7.395469E-03	20	7.310004E-03	40	6.755731E-03	200	7.523197E-03	1000	0.0072829	2000	7.478854E-03
Isopropylbenzene	0.5	2.254469	1	2.222127	2	2.171065	10	2.180701	50	2.163877	100	2.153812

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_079

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 3015001

Instrument: MS-VOA5

Matrix: Water

Calibration Dates: 1/14/13 12:28 1/14/13 16:10

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
p-Isopropyltoluene	0.5	1.970504	1	1.955871	2	1.963212	10	1.974509	50	1.923652	100	1.891542
Methacrylonitrile	5	0.2388964	10	0.24382	20	0.2497638	100	0.2266294	500	0.2006915	1000	0.1780491
Methylene chloride	0.5	0.3868845	1	0.3509048	2	0.3657078	10	0.3426013	50	0.3335032	100	0.3247809
Methyl Acetate	0.5	0.2961916	1	0.3084828	2	0.2826724	10	0.3087603	50	0.2825482	100	0.2691663
Methylcyclohexane	0.5	0.367329	1	0.3500022	2	0.3430977	10	0.346184	50	0.3297866	100	0.3370125
Naphthalene	0.5	1.274696	1	0.9111583	2	0.9667392	10	0.9182571	50	0.8995133	100	1.037918
Methyl Methacrylate	0.5	0.2886926	1	0.2952926	2	0.3043822	10	0.3084768	50	0.30665	100	0.3061319
4-Methyl-2-pentanone	1	0.3299581	2	0.3191806	4	0.3482368	20	0.3479503	100	0.3263073	200	0.3188207
Methyl t-Butyl Ether	0.5	0.7365639	1	0.7155331	2	0.7607229	10	0.7479137	50	0.7404755	100	0.7199572
n-Propylbenzene	0.5	3.098078	1	3.087656	2	2.900271	10	3.10102	50	2.903779	100	2.78201
Propionitrile	5	3.324025E-02	10	4.197072E-02	20	4.105336E-02	100	4.114025E-02	500	3.898798E-02	1000	3.918131E-02
Styrene	0.5	1.743598	1	1.547629	2	1.691342	10	1.733402	50	1.706956	100	1.689524
1,1,2,2-Tetrachloroethane	0.5	0.7749778	1	0.7704281	2	0.7754937	10	0.7675224	50	0.735531	100	0.7384902
1,1,1,2-Tetrachloroethane	0.5	0.6184492	1	0.6137157	2	0.5719485	10	0.6307781	50	0.651028	100	0.6718191
tert-Butyl alcohol	2.5	2.291974E-02	5	2.238028E-02	10	2.193438E-02	50	2.344172E-02	250	2.413043E-02	500	2.385819E-02
Tetrachloroethene	0.5	0.8747291	1	0.7659195	2	0.696509	10	0.7572346	50	0.7340021	100	0.7527298
Toluene	0.5	1.598968	1	1.530899	2	1.569737	10	1.499812	50	1.469852	100	1.418487
1,2,3-Trichlorobenzene	0.5	0.6361613	1	0.5076568	2	0.4923984	10	0.4879104	50	0.479206	100	0.5256357
1,2,4-Trichlorobenzene	0.5	0.7194296	1	0.6373556	2	0.5862074	10	0.6019947	50	0.6039067	100	0.6501246
1,1,2-Trichloroethane	0.5	0.5184205	1	0.4963578	2	0.5508437	10	0.5307493	50	0.5165474	100	0.5192445
1,1,1-Trichloroethane	0.5	0.4044099	1	0.3928345	2	0.3954197	10	0.3981512	50	0.3929356	100	0.3944235
Tetrahydrofuran	0.5	~~4.089259E-02~~	1	2.615478E-02	2	0.0297928	10	2.903902E-02	50	2.921932E-02	100	2.886296E-02
Trichloroethene	0.5	0.3430503	1	0.3451815	2	0.3145694	10	0.3158111	50	0.307749	100	0.3026244
Trichlorofluoromethane	0.5	0.4414494	1	0.4228458	2	0.3898557	10	0.4516961	50	0.4435473	100	0.4547182
1,2,3-Trichloropropane	0.5	0.1708533	1	0.1700723	2	0.1971098	10	0.1947212	50	0.2026784	100	0.1985539
1,3,5-Trimethylbenzene	0.5	2.030906	1	1.964332	2	1.924767	10	1.990872	50	1.898571	100	1.923851
1,2,4-Trimethylbenzene	0.5	1.916789	1	1.999247	2	2.022786	10	2.004743	50	1.912365	100	1.912787
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.3174873	1	0.2873538	2	0.2590001	10	0.2875515	50	0.2863348	100	0.291198
Vinyl chloride	0.5	0.233962	1	0.2194334	2	0.1706434	10	0.1943716	50	0.1653782	100	0.1830274
m,p-Xylene	1	2.182551	2	2.117861	4	2.100079	20	2.084354	100	1.950214	200	1.795296
o-Xylene	0.5	2.303241	1	2.229601	2	2.241102	10	2.166095	50	2.082546	100	2.033478

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13_12:28 1/14/13_16:10

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
Vinyl acetate	0.9962	0.8613547	1.992	0.9033994	3.985	0.8913855	19.92	0.9180376	99.62	0.8389423	199.2	0.7903024
Xylenes (total)	1.5	2.222781	3	2.155108	6	2.147087	30	2.111601	150	1.994325	300	1.87469
Dibromofluoromethane	30	0.321301	35	0.3243227	40	0.3210687	60	0.3273596	70	0.3119419	30	0.3220501
1,2-Dichloroethane-d4	30	6.628716E-02	35	6.672003E-02	40	6.626646E-02	60	6.719846E-02	70	6.614837E-02	30	6.465765E-02
Toluene-d8	30	2.153386	35	2.117067	40	2.121173	60	2.093227	70	2.067761	30	2.269109
tert-Amyl alcohol	2.5	1.271109E-02	5	1.668162E-02	10	1.610531E-02	50	1.678065E-02	250	1.709787E-02	500	0.0174946
tert-Amyl ethyl ether	0.5	0.8228651	1	0.7850741	2	0.8128628	10	0.8133302	50	0.7866846	100	0.767883
1,3,5-Trichlorobenzene	0.5	0.8072281	1	0.8029867	2	0.7874614	10	0.7887486	50	0.7620332	100	0.7998402
Diethyl ether	0.5	0.2584064	1	0.2542655	2	0.2746299	10	0.2799401	50	0.2799771	100	0.2681507

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

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	300	0.1085239	400	0.1138208								
Acetonitrile	1500	0.0523764	2000	5.356616E-02								
Acrolein	752.2	4.850121E-02	1003	5.889791E-02								
Acrylonitrile	749.6	0.1056248	999.4	0.1108248								
Benzene	150	0.9578234	200	0.8971547								
Allyl chloride	150	0.1448183	200	0.1430493								
Bromobenzene	150	0.8341341	200	0.8248411								
Bromochloromethane	150	0.1770007	200	0.174433								
Tert-Amyl Methyl Ether	150	0.7112583	200	0.6999467								
Bromodichloromethane	150	0.377711	200	0.3771937								
Bromoform	150	0.5636126	200	0.5958055								
Bromomethane	150	0.2398122	200	0.23689								
Bromofluorobenzene	30	0.9954998	30	1.01042								
n-Butylbenzene	150	1.640219	200	1.549748								
2-Butanone	300	0.1686893	400	0.1808715								
sec-Butylbenzene	150	2.136007	200	1.998071								
tert-Butylbenzene	150	1.822128	200	1.734045								
Carbon disulfide	150	0.8559887	200	0.8368884								
Carbon tetrachloride	150	0.3301372	200	0.3306238								
Chlorobenzene	150	1.55322	200	1.47658								
Chloroethane	150	0.1866724	200	0.1818907								
Chloroform	150	0.4774727	200	0.4633934								
2-Chloroethyl vinyl ether	299.2	0.1133347	399	0.1119131								
Chloromethane	150	0.3588405	200	0.3418333								
1-Chlorohexane	150	0.7291618	200	0.703803								
2-Chlorotoluene	150	1.790946	200	1.726345								
Chloroprene	150	0.4463413	200	0.4376904								
4-Chlorotoluene	150	2.05022	200	1.939517								
Cyclohexane	150	0.4157524	200	0.4102546								
Dibromochloromethane	150	0.8060836	200	0.812895								
1,2-Dibromo-3-chloropropane	150	0.141383	200	0.154679								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane (EDB)	150	0.6887618	200	0.7072498								
Dibromomethane	150	0.2079637	200	0.2091414								
1,2-Dichlorobenzene	150	1.276927	200	1.248823								
1,3-Dichlorobenzene	150	1.360609	200	1.311199								
trans-1,4-Dichloro-2-butene	150	0.2488482	200	0.2618126								
cis-1,4-Dichloro-2-butene	150	0.2491901	200	0.2627914								
1,4-Dichlorobenzene	150	1.358586	200	1.317533								
Dichlorodifluoromethane	150	0.2388435	200	0.2344418								
1,1-Dichloroethane	150	0.5569521	200	0.5502521								
1,2-Dichloroethane	150	0.3894158	200	0.3868212								
1,1-Dichloroethene	150	0.2707078	200	0.2666962								
cis-1,2-Dichloroethene	150	0.2981259	200	0.2949269								
trans-1,2-Dichloroethene	150	0.2854144	200	0.2757191								
1,2-Dichloroethene (total)	300	0.2917702	400	0.285323								
1,2-Dichloropropane	150	0.3136435	200	0.3033015								
1,3-Dichloropropane	150	0.9773766	200	0.9790606								
2,2-Dichloropropane	150	0.3490375	200	0.3434323								
1,1-Dichloropropene	150	0.3508942	200	0.3432982								
cis-1,3-Dichloropropene	150	0.4156434	200	0.4070446								
trans-1,3-Dichloropropene	150	0.9032972	200	0.8882049								
Diisopropyl Ether	150	1.188002	200	1.144911								
1,4-Dioxane	3000	2.411063E-03	4000	2.614497E-03								
Ethylbenzene	150	2.36811	200	2.182354								
Ethyl tert-Butyl Ether	150	0.8763535	200	0.8481356								
Ethyl Methacrylate	150	0.8074174	200	0.8386353								
Hexachlorobutadiene	150	0.3235014	200	0.3352867								
Hexane	149.5	0.3346702	199.3	0.3283573								
2-Hexanone	300	0.5000693	400	0.5344372								
Iodomethane	150	0.5401296	200	0.5318053								
Isobutyl alcohol	3000	6.992775E-03	4000	7.677213E-03								
Isopropylbenzene	150	1.947979	200	1.83373								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

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
p-Isopropyltoluene	150	1.835535	200	1.720122								
Methacrylonitrile	1500	~~0.1530124~~	2000	~~0.1471525~~								
Methylene chloride	150	0.3126561	200	0.312881								
Methyl Acetate	150	0.247859	200	0.2639073								
Methylcyclohexane	150	0.3168291	200	0.3120404								
Naphthalene	150	1.025252	200	1.085344								
Methyl Methacrylate	150	0.2822829	200	0.293837								
4-Methyl-2-pentanone	300	0.2843332	400	0.2911089								
Methyl t-Butyl Ether	150	0.667742	200	0.6645859								
n-Propylbenzene	150	2.608597	200	2.397782								
Propionitrile	1500	3.633671E-02	2000	0.0384046								
Styrene	150	1.590027	200	1.525947								
1,1,2,2-Tetrachloroethane	150	0.7255898	200	0.7532426								
1,1,1,2-Tetrachloroethane	150	0.6532102	200	0.6523499								
tert-Butyl alcohol	750	2.129831E-02	1000	2.362774E-02								
Tetrachloroethene	150	0.7264082	200	0.7161467								
Toluene	150	1.337666	200	1.269787								
1,2,3-Trichlorobenzene	150	0.5176797	200	0.5529998								
1,2,4-Trichlorobenzene	150	0.6565615	200	0.678902								
1,1,2-Trichloroethane	150	0.4929736	200	0.5016297								
1,1,1-Trichloroethane	150	0.3744123	200	0.3727232								
Tetrahydrofuran	150	2.730923E-02	200	3.040281E-02								
Trichloroethene	150	0.2875683	200	0.2771212								
Trichlorofluoromethane	150	0.4183027	200	0.4121636								
1,2,3-Trichloropropane	150	0.1881925	200	0.1980532								
1,3,5-Trimethylbenzene	150	1.838876	200	1.750305								
1,2,4-Trimethylbenzene	150	1.826589	200	1.730033								
1,1,2-Trichloro-1,2,2-trifluoroethan	150	0.2699672	200	0.2716716								
Vinyl chloride	150	0.1603694	200	~~0.1490765~~								
m,p-Xylene	300	1.564015	400	1.420675								
o-Xylene	150	1.865511	200	1.752676								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

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
Vinyl acetate	298.9	0.7009659	398.5	0.6665041								
Xylenes (total)	450	1.664514	600	1.531342								
Dibromofluoromethane	30	0.3164139	30	0.3252253								
1,2-Dichloroethane-d4	30	6.391151E-02	30	6.463133E-02								
Toluene-d8	30	2.264771	30	2.335172								
tert-Amyl alcohol	750	1.576621E-02	1000	1.824834E-02								
tert-Amyl ethyl ether	150	0.7151385	200	0.6826084								
1,3,5-Trichlorobenzene	150	0.8076815	200	0.8001804								
Diethyl ether	150	0.2507489	200	0.2520578								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1382535	21.30398	3.41375	0.2178597		0.9971115	0.99	
Acetonitrile	5.958155E-02	7.924362	3.48125	0.1844488			15	
Acrolein	2.632165E-02	72.01783	3.31	0.2282789		0.9990882	0.99	
Acrylonitrile	0.1141088	5.307779	4.2075	0.1088871			15	
Benzene	1.089166	10.39232	7.3275	6.032996E-02			15	
Allyl chloride	0.1475838	6.497849	4.2925	0.1094669			15	
Bromobenzene	0.8244569	2.552397	12.09	4.445683E-02			15	
Bromochloromethane	0.1807912	2.550141	6.40875	5.248492E-02			15	
Tert-Amyl Methyl Ether	0.7643609	5.742162	7.52625	7.033283E-02			15	
Bromodichloromethane	0.3876215	3.384167	8.3225	5.844847E-02			15	
Bromoform	0.5217727	12.27023	11.495	4.700326E-02			SPCC (0.1)	
Bromomethane	0.254271	11.13488	2.57125	0.1388359			15	
Bromofluorobenzene	0.9319791	6.251862	11.9325	3.547783E-02			15	
n-Butylbenzene	1.650814	3.037905	13.5275	3.600818E-02			15	
2-Butanone	0.1801441	7.023776	5.855	9.383675E-02			15	
sec-Butylbenzene	2.30494	7.778588	12.9825	3.927922E-02			15	
tert-Butylbenzene	1.843657	3.499986	12.75125	5.062703E-02			15	
Carbon disulfide	0.9127565	7.355874	4.39125	7.948044E-02			15	
Carbon tetrachloride	0.3332328	3.457246	7.29375	0.1011295			15	
Chlorobenzene	1.651016	5.441227	10.775	5.207328E-02			SPCC (0.3)	
Chloroethane	0.196747	10.08304	2.695	0.1984776			15	
Chloroform	0.5620397	19.17184	6.3825	7.537662E-02		0.9999413	CCC (20)	
2-Chloroethyl vinyl ether	0.1154789	3.902533	8.695	0.0588484			15	
Chloromethane	0.3778954	7.829223	2.03875	0.313582			SPCC (0.1)	
1-Chlorohexane	0.811602	13.9006	10.74875	3.291792E-02			15	
2-Chlorotoluene	1.894873	5.192853	12.31125	0.0363224			15	
Chloroprene	0.4702399	3.913048	5.67125	5.760295E-02			15	
4-Chlorotoluene	2.191493	7.767275	12.375	4.132915E-02			15	
Cyclohexane	0.4518011	7.148116	7.2275	6.239132E-02			15	
Dibromochloromethane	0.7718768	7.214693	10	5.323321E-02			15	
1,2-Dibromo-3-chloropropane	0.1332272	10.4874	14.11875	1.564324E-02			15	
1,2-Dibromoethane (EDB)	0.7020002	2.293596	10.2175	4.299425E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dibromomethane	0.21547	2.900413	8.255	6.232218E-02			15	
1,2-Dichlorobenzene	1.312828	2.762113	13.4775	3.367163E-02			15	
1,3-Dichlorobenzene	1.397926	4.525521	13.06875	2.541396E-02			15	
trans-1,4-Dichloro-2-butene	0.2426144	9.497938	11.90125	2.265941E-02			15	
cis-1,4-Dichloro-2-butene	0.2438593	3.951383	11.58625	0.0504235			15	
1,4-Dichlorobenzene	1.402409	3.675943	13.16125	2.233406E-02			15	
Dichlorodifluoromethane	0.2324564	13.2082	1.85	0.4085857			15	
1,1-Dichloroethane	0.5952008	5.140693	5.405	0.1000782			SPCC (0.1)	
1,2-Dichloroethane	0.4175259	5.281869	7.155	7.507074E-02			15	
1,1-Dichloroethene	0.2796901	6.792541	3.86	0.1382532			CCC (20)	
cis-1,2-Dichloroethene	0.3158398	4.981897	6.1275	7.440473E-02			15	
trans-1,2-Dichloroethene	0.3021336	4.933633	5.02	0.0136309			15	
1,2-Dichloroethene (total)	0.3089867	4.468846	6.1275	7.440473E-02			15	
1,2-Dichloropropane	0.3386929	7.100269	8.14875	4.192432E-02			CCC (20)	
1,3-Dichloropropane	1.040318	4.054882	9.74875	3.549582E-02			15	
2,2-Dichloropropane	0.3686573	5.201159	6.23125	5.685486E-02			15	
1,1-Dichloropropene	0.3857393	7.67054	7.17875	5.149072E-02			15	
cis-1,3-Dichloropropene	0.4337134	5.541059	8.905	6.040617E-02			15	
trans-1,3-Dichloropropene	0.9309958	5.216385	9.385	5.741287E-02			15	
Diisopropyl Ether	1.349897	10.56333	5.78625	9.078879E-02			15	
1,4-Dioxane	2.622795E-03	12.79812	8.3025	5.120899E-02			15	
Ethylbenzene	2.630497	9.099369	10.925	4.660921E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.966305	7.742467	6.2575	7.417242E-02			15	
Ethyl Methacrylate	0.8119637	4.963797	9.58	0.0101856			15	
Hexachlorobutadiene	0.319919	5.945366	15.47875	2.322852E-02			15	
Hexane	0.3652899	10.25731	5.62125	6.178213E-02			15	
2-Hexanone	0.5386514	5.43021	9.68875	4.151884E-02			15	
Iodomethane	0.4913408	14.78628	4.048572	9.517097E-02			15	
Isobutyl alcohol	7.302018E-03	4.089444	6.48	8.036181E-02			15	
Isopropylbenzene	2.11597	6.901589	11.82375	4.035475E-02			15	
p-Isopropyltoluene	1.904368	4.6389	13.12375	3.860331E-02			15	
Methacrylonitrile	0.222975	12.57969	6.028333	0.122802			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methylene chloride	0.34124	7.617161	4.34	1.710448E-02			15	
Methyl Acetate	0.2824485	7.658799	4.19375	0.1231043			15	
Methylcyclohexane	0.3377852	5.351541	8.47875	0.0428504			15	
Naphthalene	1.01486	12.28619	15.3425	2.575945E-02			15	
Methyl Methacrylate	0.2982183	3.229754	8.28875	4.057554E-02			15	
4-Methyl-2-pentanone	0.320737	7.285308	8.83375	5.395845E-02			15	
Methyl t-Butyl Ether	0.7191868	4.971156	5.01125	6.801852E-02			15	
n-Propylbenzene	2.859899	8.895744	12.235	4.560034E-02			15	
Propionitrile	0.0387894	7.415876	5.5675	8.366906E-02			15	
Styrene	1.653553	5.192091	11.39875	3.005824E-02			15	
1,1,2,2-Tetrachloroethane	0.7551595	2.61674	11.74625	4.274375E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6329123	4.971554	10.8175	4.455986E-02			15	
tert-Butyl alcohol	2.294885E-02	4.358871	3.9875	0.1160889			15	
Tetrachloroethene	0.7529599	7.208185	10.11875	3.495082E-02			15	
Toluene	1.461901	7.795162	9.3825	5.176129E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.524956	9.668083	15.6275	2.955386E-02			15	
1,2,4-Trichlorobenzene	0.6418103	6.923261	15.1925	2.820923E-02			15	
1,1,2-Trichloroethane	0.5158458	3.714955	9.5375	4.506239E-02			15	
1,1,1-Trichloroethane	0.3906637	2.866122	6.94875	5.195272E-02			15	
Tetrahydrofuran	2.868299E-02	5.115088	6.59	8.558432E-02			15	
Trichloroethene	0.3117094	7.673652	8.09875	4.766531E-02			15	
Trichlorofluoromethane	0.4293224	5.216097	3.14375	0.165433			15	
1,2,3-Trichloropropane	0.1900293	6.711361	11.87375	4.186706E-02			15	
1,3,5-Trimethylbenzene	1.91531	4.627424	12.4125	4.315194E-02			15	
1,2,4-Trimethylbenzene	1.915667	5.175553	12.7825	4.220693E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2838205	6.212304	3.935	0.2352882			15	
Vinyl chloride	0.1895979	14.80018	2.171429	0.1749036			CCC (20)	
m,p-Xylene	1.901881	14.83731	11.03875	3.276585E-02			15	
o-Xylene	2.084281	9.259985	11.42875	3.668688E-02			15	
Vinyl acetate	0.8213615	11.48846	5.48375	9.262346E-02			15	
Xylenes (total)	1.962681	12.84009	11.42875	3.668688E-02			15	
Dibromofluoromethane	0.3212104	1.548871	6.5575	0.0721185			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 3015001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 1/14/13 12:28 1/14/13 16:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane-d4	6.572762E-02	1.779299	7.06125	4.605941E-02			15	
Toluene-d8	2.177708	4.506548	9.305	5.939259E-02			15	
tert-Amyl alcohol	1.636071E-02	10.17797	6.76375	0.1086616			15	
tert-Amyl ethyl ether	0.7733058	6.480373	8.425	6.169704E-02			15	
1,3,5-Trichlorobenzene	0.79452	1.905944	14.6425	2.672997E-02			15	
Diethyl ether	0.264772	4.689252	3.52125	0.1004199			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	3015001
Lab File ID:	0114ICV2.D	Calibration Date:	01/14/13 12:28
Sequence:	3A01502	Injection Date:	01/14/13
Lab Sample ID:	3A01502-ICV2	Injection Time:	18:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	Q	200.0	188.2	0.1382535	0.1119371		-5.9	20
Benzene	A	100.0	94.70	1.089166	1.031414		-5.3	20
Bromobenzene	A	100.0	100.9	0.8244569	0.8315716		0.9	20
Bromochloromethane	A	100.0	98.24	0.1807912	0.1776034		-1.8	20
Bromodichloromethane	A	100.0	97.40	0.3876215	0.3775601		-2.6	20
Bromoform	A	100.0	109.6	0.5217727	0.5716842	0.1	9.6	20
Bromomethane	A	100.0	91.62	0.254271	0.2329548		-8.4	20
n-Butylbenzene	A	100.0	97.37	1.650814	1.607445		-2.6	20
2-Butanone	A	200.0	179.7	0.1801441	0.1618511		-10.2	20
sec-Butylbenzene	A	100.0	89.13	2.30494	2.054493		-10.9	20
tert-Butylbenzene	A	100.0	93.97	1.843657	1.732425		-6.0	20
Carbon disulfide	A	100.0	87.42	0.9127565	0.7978887		-12.6	20
Carbon tetrachloride	A	100.0	97.46	0.3332328	0.3247556		-2.5	20
Chlorobenzene	A	100.0	91.28	1.651016	1.507085	0.3	-8.7	20
Chloroethane	A	100.0	95.04	0.196747	0.1869826		-5.0	20
Chloroform	Q	100.0	96.39	0.5620397	0.4805391		-3.6	20
Chloromethane	A	100.0	88.04	0.3778954	0.3326992	0.1	-12.0	20
2-Chlorotoluene	A	100.0	90.77	1.894873	1.719986		-9.2	20
4-Chlorotoluene	A	100.0	90.89	2.191493	1.991771		-9.1	20
Dibromochloromethane	A	100.0	103.3	0.7718768	0.7975017		3.3	20
1,2-Dibromo-3-chloropropane	A	100.0	105.4	0.1332272	0.1403929		5.4	20
1,2-Dibromoethane (EDB)	A	100.0	97.32	0.7020002	0.6831566		-2.7	20
Dibromomethane	A	100.0	96.57	0.21547	0.208084		-3.4	20
1,2-Dichlorobenzene	A	100.0	92.44	1.312828	1.213613		-7.6	20
1,3-Dichlorobenzene	A	100.0	90.53	1.397926	1.265511		-9.5	20
1,4-Dichlorobenzene	A	100.0	97.93	1.402409	1.373314		-2.1	20
Dichlorodifluoromethane	A	100.0	97.43	0.2324564	0.2264857		-2.6	20
1,1-Dichloroethane	A	100.0	95.29	0.5952008	0.5671408	0.1	-4.7	20
1,2-Dichloroethane	A	100.0	92.84	0.4175259	0.3876226		-7.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	3015001
Lab File ID:	0114ICV2.D	Calibration Date:	01/14/13 12:28
Sequence:	3A01502	Injection Date:	01/14/13
Lab Sample ID:	3A01502-ICV2	Injection Time:	18:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	88.90	0.2796901	0.248638		-11.1	20
cis-1,2-Dichloroethene	A	100.0	97.15	0.3158398	0.3068325		-2.9	20
trans-1,2-Dichloroethene	A	100.0	95.63	0.3021336	0.2889156		-4.4	20
1,2-Dichloropropane	A	100.0	94.53	0.3386929	0.320156		-5.5	20
1,3-Dichloropropane	A	100.0	96.75	1.040318	1.006559		-3.2	20
2,2-Dichloropropane	A	100.0	92.19	0.3686573	0.3398762		-7.8	20
1,1-Dichloropropene	A	100.0	92.93	0.3857393	0.3584585		-7.1	20
cis-1,3-Dichloropropene	A	100.0	106.5	0.4337134	0.4620594		6.5	20
trans-1,3-Dichloropropene	A	100.0	96.91	0.9309958	0.902233		-3.1	20
Ethylbenzene	A	100.0	97.32	2.630497	2.56006		-2.7	20
Hexachlorobutadiene	A	100.0	92.87	0.319919	0.2971135		-7.1	20
2-Hexanone	A	200.0	186.0	0.5386514	0.5010718		-7.0	20
Isopropylbenzene	A	100.0	97.37	2.11597	2.060257		-2.6	20
p-Isopropyltoluene	A	100.0	92.29	1.904368	1.757611		-7.7	20
Methylene chloride	A	100.0	92.90	0.34124	0.3170118		-7.1	20
Naphthalene	A	100.0	92.66	1.01486	0.9404167		-7.3	20
4-Methyl-2-pentanone	A	200.0	185.2	0.320737	0.2969946		-7.4	20
Methyl t-Butyl Ether	A	100.0	95.93	0.7191868	0.6899491		-4.1	20
n-Propylbenzene	A	100.0	89.96	2.859899	2.57283		-10.0	20
Styrene	A	100.0	102.7	1.653553	1.698843		2.7	20
1,1,2,2-Tetrachloroethane	A	100.0	97.04	0.7551595	0.7328068	0.3	-3.0	20
1,1,1,2-Tetrachloroethane	A	100.0	102.3	0.6329123	0.647605		2.3	20
Tetrachloroethene	A	100.0	94.81	0.7529599	0.713877		-5.2	20
Toluene	A	100.0	96.83	1.461901	1.415557		-3.2	20
1,2,3-Trichlorobenzene	A	100.0	90.82	0.524956	0.476778		-9.2	20
1,2,4-Trichlorobenzene	A	100.0	97.34	0.6418103	0.6247474		-2.7	20
1,1,2-Trichloroethane	A	100.0	98.95	0.5158458	0.5104118		-1.1	20
1,1,1-Trichloroethane	A	100.0	96.30	0.3906637	0.3762055		-3.7	20
Trichloroethene	A	100.0	93.26	0.3117094	0.2906902		-6.7	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	3015001
Lab File ID:	0114ICV2.D	Calibration Date:	01/14/13 12:28
Sequence:	3A01502	Injection Date:	01/14/13
Lab Sample ID:	3A01502-ICV2	Injection Time:	18:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	94.69	0.4293224	0.406545		-5.3	20
1,2,3-Trichloropropane	A	100.0	97.39	0.1900293	0.1850764		-2.6	20
1,3,5-Trimethylbenzene	A	100.0	100.7	1.91531	1.928197		0.7	20
1,2,4-Trimethylbenzene	A	100.0	96.65	1.915667	1.85158		-3.3	20
Vinyl chloride	A	100.0	80.74	0.1895979	0.1530784		-19.3	20
Xylenes (total)	A	300.0	269.4	1.962681	1.76184		-10.2	20
Bromofluorobenzene	A	30.00	31.20	0.9319791	0.9692887		4.0	20
Dibromofluoromethane	A	30.00	29.55	0.3212104	0.3163607		-1.5	20
1,2-Dichloroethane-d4	A	30.00	30.18	6.572762E-02	0.0661325		0.6	20
Toluene-d8	A	30.00	30.64	2.177708	2.224479		2.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	3015001
Lab File ID:	0219CCV1.D	Calibration Date:	01/14/13 12:28
Sequence:	3B05103	Injection Date:	02/19/13
Lab Sample ID:	3B05103-CCV1	Injection Time:	07:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	Q	200.0	193.9	0.1382535	0.1151245		-3.1	20	
Benzene	A	100.0	91.87	1.089166	1.00061		-8.1	20	
Bromobenzene	A	100.0	96.67	0.8244569	0.7969781		-3.3	20	
Bromochloromethane	A	100.0	87.16	0.1807912	0.1575757		-12.8	20	
Bromodichloromethane	A	100.0	98.50	0.3876215	0.3818101		-1.5	20	
Bromoform	A	100.0	95.25	0.5217727	0.4970096	0.1	-4.7	20	
Bromomethane	A	100.0	89.69	0.254271	0.2280673		-10.3	20	
n-Butylbenzene	A	100.0	95.01	1.650814	1.568377		-5.0	20	
2-Butanone	A	200.0	222.8	0.1801441	0.2006751		11.4	20	
sec-Butylbenzene	A	100.0	98.26	2.30494	2.264864		-1.7	20	
tert-Butylbenzene	A	100.0	98.72	1.843657	1.81997		-1.3	20	
Carbon disulfide	A	100.0	98.58	0.9127565	0.8997948		-1.4	20	
Carbon tetrachloride	A	100.0	99.18	0.3332328	0.3305114		-0.8	20	
Chlorobenzene	A	100.0	92.03	1.651016	1.519379	0.3	-8.0	20	
Chloroethane	A	100.0	97.92	0.196747	0.1926491		-2.1	20	
Chloroform	Q	100.0	96.12	0.5620397	0.4792567		-3.9	20	
Chloromethane	A	100.0	106.6	0.3778954	0.4029677	0.1	6.6	20	
2-Chlorotoluene	A	100.0	103.5	1.894873	1.96054		3.5	20	
4-Chlorotoluene	A	100.0	100.5	2.191493	2.203167		0.5	20	
Dibromochloromethane	A	100.0	93.63	0.7718768	0.7226963		-6.4	20	
1,2-Dibromo-3-chloropropane	A	100.0	104.2	0.1332272	0.1387822		4.2	20	
1,2-Dibromoethane (EDB)	A	100.0	90.00	0.7020002	0.6317776		-10.0	20	
Dibromomethane	A	100.0	93.20	0.21547	0.2008208		-6.8	20	
1,2-Dichlorobenzene	A	100.0	96.18	1.312828	1.26263		-3.8	20	
1,3-Dichlorobenzene	A	100.0	95.76	1.397926	1.338657		-4.2	20	
1,4-Dichlorobenzene	A	100.0	95.30	1.402409	1.336449		-4.7	20	
Dichlorodifluoromethane	A	100.0	137.3	0.2324564	0.3191136		37.3	20	*
1,1-Dichloroethane	A	100.0	95.27	0.5952008	0.5670745	0.1	-4.7	20	
1,2-Dichloroethane	A	100.0	99.92	0.4175259	0.4171722		-0.08	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	3015001
Lab File ID:	0219CCV1.D	Calibration Date:	01/14/13 12:28
Sequence:	3B05103	Injection Date:	02/19/13
Lab Sample ID:	3B05103-CCV1	Injection Time:	07:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	88.57	0.2796901	0.2477084		-11.4	20
cis-1,2-Dichloroethene	A	100.0	89.89	0.3158398	0.2838954		-10.1	20
trans-1,2-Dichloroethene	A	100.0	89.52	0.3021336	0.2704681		-10.5	20
1,2-Dichloropropane	A	100.0	97.18	0.3386929	0.3291486		-2.8	20
1,3-Dichloropropane	A	100.0	95.09	1.040318	0.9892083		-4.9	20
2,2-Dichloropropane	A	100.0	107.8	0.3686573	0.3975436		7.8	20
1,1-Dichloropropene	A	100.0	97.78	0.3857393	0.3771636		-2.2	20
cis-1,3-Dichloropropene	A	100.0	101.3	0.4337134	0.4392991		1.3	20
trans-1,3-Dichloropropene	A	100.0	104.2	0.9309958	0.9697608		4.2	20
Ethylbenzene	A	100.0	94.67	2.630497	2.490302		-5.3	20
Hexachlorobutadiene	A	100.0	99.30	0.319919	0.3176827		-0.7	20
2-Hexanone	A	200.0	232.3	0.5386514	0.625654		16.2	20
Isopropylbenzene	A	100.0	93.89	2.11597	1.98677		-6.1	20
p-Isopropyltoluene	A	100.0	95.43	1.904368	1.817418		-4.6	20
Methylene chloride	A	100.0	86.65	0.34124	0.2956992		-13.3	20
Naphthalene	A	100.0	85.42	1.01486	0.8668813		-14.6	20
4-Methyl-2-pentanone	A	200.0	233.6	0.320737	0.3745989		16.8	20
Methyl t-Butyl Ether	A	100.0	97.46	0.7191868	0.7009292		-2.5	20
n-Propylbenzene	A	100.0	103.6	2.859899	2.961285		3.5	20
Styrene	A	100.0	95.14	1.653553	1.573244		-4.9	20
1,1,2,2-Tetrachloroethane	A	100.0	90.80	0.7551595	0.6857104	0.3	-9.2	20
1,1,1,2-Tetrachloroethane	A	100.0	92.37	0.6329123	0.5845917		-7.6	20
Tetrachloroethene	A	100.0	84.29	0.7529599	0.6346735		-15.7	20
Toluene	A	100.0	94.12	1.461901	1.375913		-5.9	20
1,2,3-Trichlorobenzene	A	100.0	87.16	0.524956	0.4575385		-12.8	20
1,2,4-Trichlorobenzene	A	100.0	87.91	0.6418103	0.5641924		-12.1	20
1,1,2-Trichloroethane	A	100.0	94.29	0.5158458	0.4863721		-5.7	20
1,1,1-Trichloroethane	A	100.0	96.47	0.3906637	0.3768747		-3.5	20
Trichloroethene	A	100.0	96.56	0.3117094	0.3009833		-3.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	3015001
Lab File ID:	0219CCV1.D	Calibration Date:	01/14/13 12:28
Sequence:	3B05103	Injection Date:	02/19/13
Lab Sample ID:	3B05103-CCV1	Injection Time:	07:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	97.81	0.4293224	0.4199174		-2.2	20
1,2,3-Trichloropropane	A	100.0	93.08	0.1900293	0.1768847		-6.9	20
1,3,5-Trimethylbenzene	A	100.0	97.13	1.91531	1.860412		-2.9	20
1,2,4-Trimethylbenzene	A	100.0	93.20	1.915667	1.785365		-6.8	20
Vinyl chloride	A	100.0	95.72	0.1895979	0.181491		-4.3	20
Xylenes (total)	A	300.0	285.8	1.962681	1.87011		-4.7	20
Bromofluorobenzene	A	30.00	29.12	0.9319791	0.9045736		-2.9	20
Dibromofluoromethane	A	30.00	28.40	0.3212104	0.3041222		-5.3	20
1,2-Dichloroethane-d4	A	30.00	27.78	6.572762E-02	0.0608605		-7.4	20
Toluene-d8	A	30.00	29.54	2.177708	2.143967		-1.5	20

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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
GW1007	02/11/13 15:04	02/13/13 08:30	02/19/13 12:43	N/A	14.00	02/19/13 12:43	7.86	14.00	
GW1008	02/11/13 14:02	02/13/13 08:30	02/19/13 13:11	N/A	14.00	02/19/13 13:11	7.92	14.00	
GW1009	02/11/13 11:31	02/13/13 08:30	02/19/13 13:39	N/A	14.00	02/19/13 13:39	8.05	14.00	
GW1010	02/11/13 12:32	02/13/13 08:30	02/19/13 14:07	N/A	14.00	02/19/13 14:07	8.02	14.00	
GW1011	02/11/13 10:18	02/13/13 08:30	02/19/13 14:34	N/A	14.00	02/19/13 14:34	8.14	14.00	
GW1012	02/11/13 10:18	02/13/13 08:30	02/19/13 15:02	N/A	14.00	02/19/13 15:02	8.16	14.00	
GW8070-AB	02/11/13 14:02	02/13/13 08:30	02/19/13 09:55	N/A	14.00	02/19/13 09:55	7.79	14.00	
GW8258-TB	02/11/13 08:00	02/13/13 08:30	02/19/13 10:23	N/A	14.00	02/19/13 10:23	8.06	14.00	
GW1013	02/13/13 11:51	02/15/13 08:30	02/19/13 15:58	N/A	14.00	02/19/13 15:58	6.13	14.00	
GW1014	02/13/13 14:12	02/15/13 08:30	02/19/13 16:26	N/A	14.00	02/19/13 16:26	6.05	14.00	
GW1015	02/13/13 10:32	02/15/13 08:30	02/19/13 16:54	N/A	14.00	02/19/13 16:54	6.22	14.00	
GW1016	02/13/13 14:32	02/15/13 08:30	02/19/13 17:22	N/A	14.00	02/19/13 17:22	6.08	14.00	
GW8071-AB	02/13/13 10:32	02/15/13 08:30	02/19/13 11:19	N/A	14.00	02/19/13 11:19	5.99	14.00	
GW8259-TB	02/13/13 08:00	02/15/13 08:30	02/19/13 11:47	N/A	14.00	02/19/13 11:47	6.12	14.00	

PREPARATION BENCH SHEET

3B19001

Empirical Laboratories, LLC **Printed: 3/4/2013 2:19:27PM**

Instrument: VOA5

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

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1302087-01	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-03	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-05	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-07	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-09	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-11	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-13	A	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302087-14	A	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302100-01	B	VOC_8260B_REG	02/19/2013	5	5				1	2	see versions if water
1302100-02	B	VOC_8260B_REG	02/19/2013	5	5				1	2	see versions if water
1302101-01	B	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302101-03	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302101-05	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302101-07	D	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302101-09	A	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302101-10	A	VOC_8260B_REG	02/19/2013	5	5				1	2	naphthalene must be reported
1302106-01	A	VOC_8260B_REG	02/19/2013	5	5				1	2	see version LODverification0.25ppb!!!
3B19001-BLK1		QC	02/19/2013	5	5				1	NA	
3B19001-BS1		QC	02/19/2013	5	5	13B0338		2.5	1	NA	
3B19001-BSD1		QC	02/19/2013	5	5	13B0338		2.5	1	NA	

PREPARATION BENCH SHEET

3B19001

Empirical Laboratories, LLC

Printed: 3/4/2013 2:19:27PM

Instrument: VOA5

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

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

Reagents Used:

Standard	Description
12A0500	Anti-foam-GE_AF72

Data for SW8270D Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1302087-01 [GW1007]	3B15007	1,000.00/1.00	1000	1.00	1.00			02/15/13
1302087-03 [GW1008]	3B15007	1,000.00/1.00	1000	1.00	1.00			02/15/13
1302087-05 [GW1009]	3B15007	1,000.00/1.00	1000	1.00	1.00			02/15/13
1302087-07 [GW1010]	3B15007	1,000.00/1.00	1040	1.00	1.00			02/15/13
1302087-09 [GW1011]	3B15007	1,000.00/1.00	1040	1.00	1.00			02/15/13
1302087-11 [GW1012]	3B15007	1,000.00/1.00	1020	1.00	1.00			02/15/13

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1302101-01 [GW1013]	3B20017	1,000.00/1.00	1000	1.00	1.00			02/20/13
1302101-03 [GW1014]	3B20017	1,000.00/1.00	1000	1.00	1.00			02/20/13
1302101-05 [GW1015]	3B20017	1,000.00/1.00	1000	1.00	1.00			02/20/13
1302101-07 [GW1016]	3B20017	1,000.00/1.00	1020	1.00	1.00			02/20/13

ANALYSIS DATA SHEET

GW1007

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1302087-01
File ID: 0208701.D
Sampled: 02/11/13 15:04
Prepared: 02/15/13 11:13
Analyzed: 02/21/13 18:40
Solids:
Preparation: EXT_3510
Dilution: 1
Batch: 3B15007
Sequence: 3B05310
Calibration: 2272005
Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UY
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	UX
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW1007

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-01 File ID: 0208701.D

Sampled: 02/11/13 15:04 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 18:40

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	28.02	56.0	50 - 110	
2-Fluorophenol	100.0	19.46	19.5	20 - 110	*
Nitrobenzene-d5	50.00	29.83	59.7	40 - 110	
Phenol-d6	100.0	13.41	13.4	0 - 110	
Terphenyl-d14	50.00	36.52	73.0	50 - 135	
2,4,6-Tribromophenol	100.0	42.74	42.7	40 - 125	

ANALYSIS DATA SHEET

GW1008

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-03 File ID: 0208703.D

Sampled: 02/11/13 14:02 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 19:07

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UY
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	UX
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW1008

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-03 File ID: 0208703.D

Sampled: 02/11/13 14:02 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 19:07

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	28.99	58.0	50 - 110	
2-Fluorophenol	100.0	29.03	29.0	20 - 110	
Nitrobenzene-d5	50.00	32.32	64.6	40 - 110	
Phenol-d6	100.0	17.12	17.1	0 - 110	
Terphenyl-d14	50.00	43.90	87.8	50 - 135	
2,4,6-Tribromophenol	100.0	77.06	77.1	40 - 125	

ANALYSIS DATA SHEET

GW1009

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-05 File ID: 0208705.D

Sampled: 02/11/13 11:31 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 19:34

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UY
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	UX
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW1009

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-05 File ID: 0208705.D

Sampled: 02/11/13 11:31 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 19:34

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	27.52	55.0	50 - 110	
2-Fluorophenol	100.0	26.40	26.4	20 - 110	
Nitrobenzene-d5	50.00	28.04	56.1	40 - 110	
Phenol-d6	100.0	15.95	16.0	0 - 110	
Terphenyl-d14	50.00	39.21	78.4	50 - 135	
2,4,6-Tribromophenol	100.0	64.26	64.3	40 - 125	

ANALYSIS DATA SHEET

GW1010

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-07 File ID: 0208707.D

Sampled: 02/11/13 12:32 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 20:01

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	UY
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	UX
105-60-2	Caprolactam		1.20	2.40	4.81	U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW1010

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-07 File ID: 0208707.D

Sampled: 02/11/13 12:32 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 20:01

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	UX
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	UX
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	UX
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	26.94	56.0	50 - 110	
2-Fluorophenol	96.15	23.22	24.1	20 - 110	
Nitrobenzene-d5	48.08	29.38	61.1	40 - 110	
Phenol-d6	96.15	12.98	13.5	0 - 110	
Terphenyl-d14	48.08	40.07	83.3	50 - 135	
2,4,6-Tribromophenol	96.15	66.37	69.0	40 - 125	

ANALYSIS DATA SHEET

GW1011

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1302087-09
File ID: 0208709.D
Sampled: 02/11/13 10:18
Prepared: 02/15/13 11:13
Analyzed: 02/21/13 20:28
Solids:
Preparation: EXT_3510
Dilution: 1
Batch: 3B15007
Sequence: 3B05310
Calibration: 2272005
Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	UY
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	UX
105-60-2	Caprolactam		1.20	2.40	4.81	U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW1011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-09 File ID: 0208709.D

Sampled: 02/11/13 10:18 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 20:28

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	UX
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	UX
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	UX
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	32.57	67.7	50 - 110	
2-Fluorophenol	96.15	27.34	28.4	20 - 110	
Nitrobenzene-d5	48.08	34.22	71.2	40 - 110	
Phenol-d6	96.15	15.50	16.1	0 - 110	
Terphenyl-d14	48.08	40.37	84.0	50 - 135	
2,4,6-Tribromophenol	96.15	72.50	75.4	40 - 125	

ANALYSIS DATA SHEET

GW1012

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-11 File ID: 0208711.D

Sampled: 02/11/13 10:18 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 20:55

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	UY
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	UX
105-60-2	Caprolactam		1.23	2.45	4.90	U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW1012

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302087-11 File ID: 0208711.D

Sampled: 02/11/13 10:18 Prepared: 02/15/13 11:13 Analyzed: 02/21/13 20:55

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	UX
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	UX
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	UX
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	32.00	65.3	50 - 110	
2-Fluorophenol	98.04	20.89	21.3	20 - 110	
Nitrobenzene-d5	49.02	33.66	68.7	40 - 110	
Phenol-d6	98.04	12.41	12.7	0 - 110	
Terphenyl-d14	49.02	40.93	83.5	50 - 135	
2,4,6-Tribromophenol	98.04	56.65	57.8	40 - 125	

ANALYSIS DATA SHEET

GW1013

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-01 File ID: 0210101.D

Sampled: 02/13/13 11:51 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 18:14

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

GW1013

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-01 File ID: 0210101.D

Sampled: 02/13/13 11:51 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 18:14

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	UX
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	UX
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	40.75	81.5	50 - 110	
2-Fluorophenol	100.0	37.43	37.4	20 - 110	
Nitrobenzene-d5	50.00	41.36	82.7	40 - 110	
Phenol-d6	100.0	21.15	21.2	0 - 110	
Terphenyl-d14	50.00	47.81	95.6	50 - 135	
2,4,6-Tribromophenol	100.0	101.2	101	40 - 125	

ANALYSIS DATA SHEET

GW1014

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-03 File ID: 0210103.D

Sampled: 02/13/13 14:12 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 18:41

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

GW1014

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-03 File ID: 0210103.D

Sampled: 02/13/13 14:12 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 18:41

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	UX
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	UX
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	38.73	77.5	50 - 110	
2-Fluorophenol	100.0	33.25	33.2	20 - 110	
Nitrobenzene-d5	50.00	37.52	75.0	40 - 110	
Phenol-d6	100.0	19.89	19.9	0 - 110	
Terphenyl-d14	50.00	49.69	99.4	50 - 135	
2,4,6-Tribromophenol	100.0	88.04	88.0	40 - 125	

ANALYSIS DATA SHEET

GW1015

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-05 File ID: 0210105.D

Sampled: 02/13/13 10:32 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 19:08

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

GW1015

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-05 File ID: 0210105.D

Sampled: 02/13/13 10:32 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 19:08

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	UX
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	UX
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	33.36	66.7	50 - 110	
2-Fluorophenol	100.0	30.08	30.1	20 - 110	
Nitrobenzene-d5	50.00	34.03	68.1	40 - 110	
Phenol-d6	100.0	16.75	16.8	0 - 110	
Terphenyl-d14	50.00	46.47	92.9	50 - 135	
2,4,6-Tribromophenol	100.0	83.12	83.1	40 - 125	

ANALYSIS DATA SHEET

GW1016

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1302101-07
File ID: 0210107.D
Sampled: 02/13/13 14:32
Prepared: 02/20/13 15:15
Analyzed: 02/26/13 19:35
Solids:
Preparation: EXT_3510
Dilution: 1
Batch: 3B20017
Sequence: 3B05809
Calibration: 2272005
Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	UX
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	UXQ
105-60-2	Caprolactam		1.23	2.45	4.90	U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	UX
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW1016

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Water Laboratory ID: 1302101-07 File ID: 0210107.D

Sampled: 02/13/13 14:32 Prepared: 02/20/13 15:15 Analyzed: 02/26/13 19:35

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	UX
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	UX
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	UX
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	UX
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	UX
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	38.60	78.7	50 - 110	
2-Fluorophenol	98.04	33.34	34.0	20 - 110	
Nitrobenzene-d5	49.02	40.33	82.3	40 - 110	
Phenol-d6	98.04	18.92	19.3	0 - 110	
Terphenyl-d14	49.02	48.67	99.3	50 - 135	
2,4,6-Tribromophenol	98.04	85.58	87.3	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05310
Instrument: MS-BNA1
Calibration: 2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (3B05310-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/21/13 12:21		
2-Fluorobiphenyl	50.00	100	80 - 120	8.295	8.295	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.1	80 - 120	3.471	3.471	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	106	80 - 120	5.889	5.889	0.0000	+/-0.500	
Phenol-d6	100.0	100	80 - 120	4.714	4.714	0.0000	+/-0.500	
Terphenyl-d14	50.00	117	80 - 120	12.844	12.844	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	98.8	80 - 120	10.084	10.084	0.0000	+/-0.500	
Blank (3B15007-BLK1) ug/L				Lab File ID: B15007B1.D		Analyzed: 02/21/13 15:58		
2-Fluorobiphenyl	50.00	76.6	50 - 110	8.293	8.295	-0.0020	+/-0.500	
2-Fluorophenol	100.0	24.9	20 - 110	3.48	3.471	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	79.9	40 - 110	5.886	5.889	-0.0030	+/-0.500	
Phenol-d6	100.0	18.2	0 - 110	4.714	4.714	0.0000	+/-0.500	
Terphenyl-d14	50.00	94.0	50 - 135	12.847	12.844	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	53.7	40 - 125	10.085	10.084	0.0010	+/-0.500	
LCS (3B15007-BS1) ug/L				Lab File ID: B15007L1.D		Analyzed: 02/21/13 16:25		
2-Fluorobiphenyl	50.00	79.1	50 - 110	8.299	8.295	0.0040	+/-0.500	
2-Fluorophenol	100.0	32.5	20 - 110	3.479	3.471	0.0080	+/-0.500	
Nitrobenzene-d5	50.00	83.4	40 - 110	5.885	5.889	-0.0040	+/-0.500	
Phenol-d6	100.0	20.0	0 - 110	4.71	4.714	-0.0040	+/-0.500	
Terphenyl-d14	50.00	86.0	50 - 135	12.843	12.844	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	76.7	40 - 125	10.089	10.084	0.0050	+/-0.500	
GW1007 (1302087-01) ug/L				Lab File ID: 0208701.D		Analyzed: 02/21/13 18:40		
2-Fluorobiphenyl	50.00	56.0	50 - 110	8.295	8.295	0.0000	+/-0.500	
2-Fluorophenol	100.0	19.5	20 - 110	3.481	3.471	0.0100	+/-0.500	*
Nitrobenzene-d5	50.00	59.7	40 - 110	5.888	5.889	-0.0010	+/-0.500	
Phenol-d6	100.0	13.4	0 - 110	4.715	4.714	0.0010	+/-0.500	
Terphenyl-d14	50.00	73.0	50 - 135	12.843	12.844	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	42.7	40 - 125	10.087	10.084	0.0030	+/-0.500	
GW1008 (1302087-03) ug/L				Lab File ID: 0208703.D		Analyzed: 02/21/13 19:07		
2-Fluorobiphenyl	50.00	58.0	50 - 110	8.293	8.295	-0.0020	+/-0.500	
2-Fluorophenol	100.0	29.0	20 - 110	3.48	3.471	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	64.6	40 - 110	5.887	5.889	-0.0020	+/-0.500	
Phenol-d6	100.0	17.1	0 - 110	4.713	4.714	-0.0010	+/-0.500	
Terphenyl-d14	50.00	87.8	50 - 135	12.843	12.844	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	77.1	40 - 125	10.085	10.084	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05310
Instrument: MS-BNA1
Calibration: 2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW1009 (1302087-05) ug/L				Lab File ID: 0208705.D		Analyzed: 02/21/13 19:34		
2-Fluorobiphenyl	50.00	55.0	50 - 110	8.291	8.295	-0.0040	+/-0.500	
2-Fluorophenol	100.0	26.4	20 - 110	3.478	3.471	0.0070	+/-0.500	
Nitrobenzene-d5	50.00	56.1	40 - 110	5.884	5.889	-0.0050	+/-0.500	
Phenol-d6	100.0	16.0	0 - 110	4.711	4.714	-0.0030	+/-0.500	
Terphenyl-d14	50.00	78.4	50 - 135	12.839	12.844	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	64.3	40 - 125	10.081	10.084	-0.0030	+/-0.500	
GW1010 (1302087-07) ug/L				Lab File ID: 0208707.D		Analyzed: 02/21/13 20:01		
2-Fluorobiphenyl	48.08	56.0	50 - 110	8.294	8.295	-0.0010	+/-0.500	
2-Fluorophenol	96.15	24.1	20 - 110	3.482	3.471	0.0110	+/-0.500	
Nitrobenzene-d5	48.08	61.1	40 - 110	5.888	5.889	-0.0010	+/-0.500	
Phenol-d6	96.15	13.5	0 - 110	4.713	4.714	-0.0010	+/-0.500	
Terphenyl-d14	48.08	83.3	50 - 135	12.841	12.844	-0.0030	+/-0.500	
2,4,6-Tribromophenol	96.15	69.0	40 - 125	10.084	10.084	0.0000	+/-0.500	
GW1011 (1302087-09) ug/L				Lab File ID: 0208709.D		Analyzed: 02/21/13 20:28		
2-Fluorobiphenyl	48.08	67.7	50 - 110	8.297	8.295	0.0020	+/-0.500	
2-Fluorophenol	96.15	28.4	20 - 110	3.481	3.471	0.0100	+/-0.500	
Nitrobenzene-d5	48.08	71.2	40 - 110	5.888	5.889	-0.0010	+/-0.500	
Phenol-d6	96.15	16.1	0 - 110	4.713	4.714	-0.0010	+/-0.500	
Terphenyl-d14	48.08	84.0	50 - 135	12.843	12.844	-0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	75.4	40 - 125	10.088	10.084	0.0040	+/-0.500	
GW1012 (1302087-11) ug/L				Lab File ID: 0208711.D		Analyzed: 02/21/13 20:55		
2-Fluorobiphenyl	49.02	65.3	50 - 110	8.294	8.295	-0.0010	+/-0.500	
2-Fluorophenol	98.04	21.3	20 - 110	3.49	3.471	0.0190	+/-0.500	
Nitrobenzene-d5	49.02	68.7	40 - 110	5.887	5.889	-0.0020	+/-0.500	
Phenol-d6	98.04	12.7	0 - 110	4.714	4.714	0.0000	+/-0.500	
Terphenyl-d14	49.02	83.5	50 - 135	12.847	12.844	0.0030	+/-0.500	
2,4,6-Tribromophenol	98.04	57.8	40 - 125	10.085	10.084	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05809
Instrument: MS-BNA1
Calibration: 2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (3B05809-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/26/13 15:04		
2-Fluorobiphenyl	50.00	93.2	80 - 120	8.311	8.311	0.0000	+/-0.500	
2-Fluorophenol	100.0	104	80 - 120	3.5	3.5	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	105	80 - 120	5.906	5.906	0.0000	+/-0.500	
Phenol-d6	100.0	104	80 - 120	4.732	4.732	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	12.862	12.862	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	105	80 - 120	10.103	10.103	0.0000	+/-0.500	
Blank (3B20017-BLK1) ug/L				Lab File ID: B20017B1.D		Analyzed: 02/26/13 17:20		
2-Fluorobiphenyl	50.00	87.4	50 - 110	8.31	8.311	-0.0010	+/-0.500	
2-Fluorophenol	100.0	43.8	20 - 110	3.494	3.5	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	93.6	40 - 110	5.901	5.906	-0.0050	+/-0.500	
Phenol-d6	100.0	25.3	0 - 110	4.727	4.732	-0.0050	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	12.856	12.862	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	102	40 - 125	10.09	10.103	-0.0130	+/-0.500	
LCS (3B20017-BS1) ug/L				Lab File ID: B20017L1.D		Analyzed: 02/26/13 17:47		
2-Fluorobiphenyl	50.00	85.9	50 - 110	8.304	8.311	-0.0070	+/-0.500	
2-Fluorophenol	100.0	45.3	20 - 110	3.501	3.5	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	92.3	40 - 110	5.9	5.906	-0.0060	+/-0.500	
Phenol-d6	100.0	25.9	0 - 110	4.725	4.732	-0.0070	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	12.85	12.862	-0.0120	+/-0.500	
2,4,6-Tribromophenol	100.0	99.0	40 - 125	10.092	10.103	-0.0110	+/-0.500	
GW1013 (1302101-01) ug/L				Lab File ID: 0210101.D		Analyzed: 02/26/13 18:14		
2-Fluorobiphenyl	50.00	81.5	50 - 110	8.306	8.311	-0.0050	+/-0.500	
2-Fluorophenol	100.0	37.4	20 - 110	3.501	3.5	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	82.7	40 - 110	5.899	5.906	-0.0070	+/-0.500	
Phenol-d6	100.0	21.2	0 - 110	4.725	4.732	-0.0070	+/-0.500	
Terphenyl-d14	50.00	95.6	50 - 135	12.856	12.862	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	10.095	10.103	-0.0080	+/-0.500	
GW1014 (1302101-03) ug/L				Lab File ID: 0210103.D		Analyzed: 02/26/13 18:41		
2-Fluorobiphenyl	50.00	77.5	50 - 110	8.309	8.311	-0.0020	+/-0.500	
2-Fluorophenol	100.0	33.2	20 - 110	3.498	3.5	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	75.0	40 - 110	5.895	5.906	-0.0110	+/-0.500	
Phenol-d6	100.0	19.9	0 - 110	4.731	4.732	-0.0010	+/-0.500	
Terphenyl-d14	50.00	99.4	50 - 135	12.857	12.862	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	88.0	40 - 125	10.09	10.103	-0.0130	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05809
Instrument: MS-BNA1
Calibration: 2272005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW1015 (1302101-05) ug/L				Lab File ID: 0210105.D		Analyzed: 02/26/13 19:08		
2-Fluorobiphenyl	50.00	66.7	50 - 110	8.3	8.311	-0.0110	+/-0.500	
2-Fluorophenol	100.0	30.1	20 - 110	3.5	3.5	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	68.1	40 - 110	5.895	5.906	-0.0110	+/-0.500	
Phenol-d6	100.0	16.8	0 - 110	4.73	4.732	-0.0020	+/-0.500	
Terphenyl-d14	50.00	92.9	50 - 135	12.856	12.862	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	83.1	40 - 125	10.091	10.103	-0.0120	+/-0.500	
GW1016 (1302101-07) ug/L				Lab File ID: 0210107.D		Analyzed: 02/26/13 19:35		
2-Fluorobiphenyl	49.02	78.7	50 - 110	8.301	8.311	-0.0100	+/-0.500	
2-Fluorophenol	98.04	34.0	20 - 110	3.5	3.5	0.0000	+/-0.500	
Nitrobenzene-d5	49.02	82.3	40 - 110	5.895	5.906	-0.0110	+/-0.500	
Phenol-d6	98.04	19.3	0 - 110	4.731	4.732	-0.0010	+/-0.500	
Terphenyl-d14	49.02	99.3	50 - 135	12.849	12.862	-0.0130	+/-0.500	
2,4,6-Tribromophenol	98.04	87.3	40 - 125	10.09	10.103	-0.0130	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B15007	Laboratory ID:	3B15007-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	23.75	66.5	45 - 110
Acenaphthylene	35.72	25.42	71.2	50 - 105
Acetophenone	35.72	30.75	86.1	45 - 130
Anthracene	35.72	28.19	78.9	55 - 110
Atrazine	35.72	31.79	89.0	40 - 150
Benzaldehyde	35.72	29.98	83.9	40 - 125
Benzidine	35.72	19.75	55.3	0 - 110
Benzo(a)anthracene	35.72	28.27	79.2	55 - 110
Benzo(a)pyrene	35.72	26.68	74.7	55 - 110
Benzo(b)fluoranthene	35.72	27.50	77.0	45 - 120
Benzo(g,h,i)perylene	35.72	27.67	77.5	40 - 125
Benzoic acid	71.45	100 U	0	0 - 125
Benzo(k)fluoranthene	35.72	27.22	76.2	45 - 125
1,1-Biphenyl	35.72	27.86	78.0	45 - 135
4-Bromophenyl-phenylether	35.72	28.67	80.3	50 - 115
Butylbenzylphthalate	35.72	36.10	101	45 - 115
Caprolactam	35.72	4.675	13.1	5 - 110
Carbazole	35.72	31.11	87.1	50 - 115
4-Chloro-3-methylphenol	71.45	56.47	79.0	45 - 110
4-Chloroaniline	35.72	29.47	82.5	15 - 110
Bis(2-chloroethoxy)methane	35.72	29.49	82.6	45 - 105
Bis(2-chloroethyl)ether	35.72	28.08	78.6	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	30.11	84.3	25 - 130
2-Chloronaphthalene	35.72	21.32	59.7	50 - 105
2-Chlorophenol	71.45	49.42	69.2	35 - 105
4-Chlorophenyl phenyl ether	35.72	25.08	70.2	50 - 110
Chrysene	35.72	29.32	82.1	55 - 110
Dibenz(a,h)anthracene	35.72	27.63	77.4	40 - 125
Dibenzofuran	35.72	25.94	72.6	55 - 105
Di-n-butylphthalate	35.72	33.24	93.1	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B15007	Laboratory ID:	3B15007-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	22.04	61.7	20 - 110
2,4-Dichlorophenol	71.45	54.77	76.7	50 - 105
Diethylphthalate	35.72	30.94	86.6	40 - 120
2,4-Dimethylphenol	71.45	55.41	77.5	30 - 110
Dimethyl phthalate	35.72	30.22	84.6	25 - 125
4,6-Dinitro-2-methylphenol	71.45	54.48	76.2	40 - 130
2,4-Dinitrophenol	71.45	39.66	55.5	15 - 140
2,4-Dinitrotoluene	35.72	26.32	73.7	50 - 120
2,6-Dinitrotoluene	35.72	25.86	72.4	50 - 115
Di-n-octylphthalate	35.72	34.38	96.3	35 - 135
1,2-Diphenylhydrazine	35.72	33.69	94.3	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	35.40	99.1	40 - 125
Fluoranthene	35.72	27.87	78.0	55 - 115
Fluorene	35.72	25.34	70.9	50 - 110
Hexachlorobenzene	35.72	26.44	74.0	50 - 110
Hexachlorobutadiene	35.72	18.27	51.2	25 - 105
Hexachlorocyclopentadiene	35.72	14.87	41.6	0 - 120
Hexachloroethane	35.72	19.83	55.5	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	26.72	74.8	45 - 125
Isophorone	35.72	26.59	74.4	50 - 110
1-Methylnaphthalene	35.72	23.92	67.0	35 - 115
2-Methylnaphthalene	35.72	22.15	62.0	45 - 105
2-Methylphenol	71.45	42.61	59.6	40 - 110
3-Methylphenol/4-Methylphenol	71.45	36.73	51.4	30 - 110
Naphthalene	35.72	23.39	65.5	40 - 100
4-Nitroaniline	35.72	28.48	79.7	35 - 120
3-Nitroaniline	35.72	27.22	76.2	20 - 125
2-Nitroaniline	35.72	33.06	92.6	50 - 115
Nitrobenzene	35.72	27.47	76.9	45 - 110
4-Nitrophenol	71.45	16.28	22.8	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B15007	Laboratory ID:	3B15007-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	56.10	78.5	40 - 115
N-Nitrosodiphenylamine	35.72	25.19	70.5	50 - 110
N-Nitroso-di-n-propylamine	35.72	32.34	90.6	35 - 130
Pentachlorophenol	71.45	47.57	66.6	40 - 115
Phenanthrene	35.72	27.11	75.9	50 - 115
Phenol	71.45	12.91	18.1	0 - 115
Pyrene	35.72	27.59	77.3	50 - 130
2,4,6-Trichlorophenol	71.45	51.12	71.6	50 - 115
2,4,5-Trichlorophenol	71.45	55.78	78.1	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B20017	Laboratory ID:	3B20017-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	29.20	81.8	45 - 110
Acenaphthylene	35.72	29.73	83.3	50 - 105
Acetophenone	35.72	36.57	102	45 - 130
Anthracene	35.72	33.11	92.7	55 - 110
Atrazine	35.72	38.03	106	40 - 150
Benzaldehyde	35.72	36.53	102	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	35.72	33.47	93.7	55 - 110
Benzo(a)pyrene	35.72	30.33	84.9	55 - 110
Benzo(b)fluoranthene	35.72	34.73	97.2	45 - 120
Benzo(g,h,i)perylene	35.72	32.42	90.8	40 - 125
Benzoic acid	71.45	100 U	0	0 - 125
Benzo(k)fluoranthene	35.72	31.00	86.8	45 - 125
1,1-Biphenyl	35.72	31.23	87.5	45 - 135
4-Bromophenyl-phenylether	35.72	35.63	99.8	50 - 115
Butylbenzylphthalate	**35.72**	**43.71**	**122**	**45 - 115**
Caprolactam	35.72	5.721	16.0	5 - 110
Carbazole	35.72	38.29	107	50 - 115
4-Chloro-3-methylphenol	71.45	66.92	93.7	45 - 110
4-Chloroaniline	35.72	32.41	90.8	15 - 110
Bis(2-chloroethoxy)methane	35.72	32.82	91.9	45 - 105
Bis(2-chloroethyl)ether	35.72	33.70	94.3	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	34.70	97.2	25 - 130
2-Chloronaphthalene	35.72	25.59	71.7	50 - 105
2-Chlorophenol	71.45	62.72	87.8	35 - 105
4-Chlorophenyl phenyl ether	35.72	30.51	85.4	50 - 110
Chrysene	35.72	33.87	94.8	55 - 110
Dibenz(a,h)anthracene	35.72	32.64	91.4	40 - 125
Dibenzofuran	35.72	29.07	81.4	55 - 105
Di-n-butylphthalate	35.72	39.32	110	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B20017	Laboratory ID:	3B20017-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	30.95	86.7	20 - 110
2,4-Dichlorophenol	71.45	64.06	89.7	50 - 105
Diethylphthalate	35.72	35.86	100	40 - 120
2,4-Dimethylphenol	71.45	64.11	89.7	30 - 110
Dimethyl phthalate	35.72	34.42	96.4	25 - 125
4,6-Dinitro-2-methylphenol	71.45	68.11	95.3	40 - 130
2,4-Dinitrophenol	71.45	51.53	72.1	15 - 140
2,4-Dinitrotoluene	35.72	32.22	90.2	50 - 120
2,6-Dinitrotoluene	35.72	30.94	86.6	50 - 115
Di-n-octylphthalate	35.72	40.36	113	35 - 135
1,2-Diphenylhydrazine	35.72	37.56	105	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	41.30	116	40 - 125
Fluoranthene	35.72	33.66	94.2	55 - 115
Fluorene	35.72	29.93	83.8	50 - 110
Hexachlorobenzene	35.72	31.95	89.4	50 - 110
Hexachlorobutadiene	35.72	19.68	55.1	25 - 105
Hexachlorocyclopentadiene	35.72	16.94	47.4	0 - 120
Hexachloroethane	35.72	21.60	60.5	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	31.22	87.4	45 - 125
Isophorone	35.72	30.06	84.2	50 - 110
1-Methylnaphthalene	35.72	28.44	79.6	35 - 115
2-Methylnaphthalene	35.72	25.85	72.4	45 - 105
2-Methylphenol	71.45	49.14	68.8	40 - 110
3-Methylphenol/4-Methylphenol	71.45	44.25	61.9	30 - 110
Naphthalene	35.72	26.24	73.5	40 - 100
4-Nitroaniline	35.72	35.24	98.7	35 - 120
3-Nitroaniline	35.72	31.39	87.9	20 - 125
2-Nitroaniline	35.72	39.97	112	50 - 115
Nitrobenzene	35.72	32.35	90.6	45 - 110
4-Nitrophenol	71.45	20.84	29.2	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	3B20017	Laboratory ID:	3B20017-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	68.42	95.8	40 - 115
N-Nitrosodiphenylamine	35.72	28.77	80.6	50 - 110
N-Nitroso-di-n-propylamine	35.72	38.39	107	35 - 130
Pentachlorophenol	71.45	65.95	92.3	40 - 115
Phenanthrene	35.72	32.14	90.0	50 - 115
Phenol	71.45	17.41	24.4	0 - 115
Pyrene	35.72	32.84	92.0	50 - 130
2,4,6-Trichlorophenol	71.45	66.57	93.2	50 - 115
2,4,5-Trichlorophenol	71.45	66.69	93.3	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Batch: 3B15007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW1007	1302087-01	02/15/13 11:13	1,000.00	1.00
GW1008	1302087-03	02/15/13 11:13	1,000.00	1.00
GW1009	1302087-05	02/15/13 11:13	1,000.00	1.00
GW1010	1302087-07	02/15/13 11:13	1,040.00	1.00
GW1011	1302087-09	02/15/13 11:13	1,040.00	1.00
GW1012	1302087-11	02/15/13 11:13	1,020.00	1.00
Blank	3B15007-BLK1	02/15/13 11:13	1,000.00	1.00
LCS	3B15007-BS1	02/15/13 11:13	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_079

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 3B20017 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW1013	1302101-01	02/20/13 15:15	1,000.00	1.00
GW1014	1302101-03	02/20/13 15:15	1,000.00	1.00
GW1015	1302101-05	02/20/13 15:15	1,000.00	1.00
GW1016	1302101-07	02/20/13 15:15	1,020.00	1.00
Blank	3B20017-BLK1	02/20/13 15:15	1,000.00	1.00
LCS	3B20017-BS1	02/20/13 15:15	1,000.00	1.00

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B15007-BLK1 File ID: B15007B1.D

Sampled: Prepared: Analyzed: 02/21/13 15:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UY
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	UX
105-60-2	Caprolactam		1.25	2.50	5.00	U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B15007-BLK1 File ID: B15007B1.D

Sampled: Prepared: Analyzed: 02/21/13 15:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.28	76.6	50 - 110	
2-Fluorophenol	100.0	24.85	24.9	20 - 110	
Nitrobenzene-d5	50.00	39.96	79.9	40 - 110	
Phenol-d6	100.0	18.15	18.2	0 - 110	
Terphenyl-d14	50.00	46.99	94.0	50 - 135	
2,4,6-Tribromophenol	100.0	53.65	53.7	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B15007-BS1 File ID: B15007L1.D

Sampled: Prepared: Analyzed: 02/21/13 16:25

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**23.75**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**25.42**	1.25	2.50	5.00	
98-86-2	Acetophenone	**30.75**	1.25	2.50	5.00	
120-12-7	Anthracene	**28.19**	1.25	2.50	5.00	
1912-24-9	Atrazine	**31.79**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**29.98**	1.25	2.50	5.00	
92-87-5	Benzidine	**19.75**	12.5	50.0	100	J
56-55-3	Benzo(a)anthracene	**28.27**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**26.68**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**27.50**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**27.67**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	UY
207-08-9	Benzo(k)fluoranthene	**27.22**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**27.86**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**28.67**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**36.10**	1.25	2.50	5.00	X
105-60-2	Caprolactam	**4.675**	1.25	2.50	5.00	J
86-74-8	Carbazole	**31.11**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**56.47**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**29.47**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**29.49**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**28.08**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**30.11**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**21.32**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**49.42**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**25.08**	1.25	2.50	5.00	
218-01-9	Chrysene	**29.32**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**27.63**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**25.94**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**33.24**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**22.04**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**54.77**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**30.94**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**55.41**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**30.22**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**54.48**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**39.66**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**26.32**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**25.86**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**34.38**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B15007-BS1 File ID: B15007L1.D

Sampled: Prepared: Analyzed: 02/21/13 16:25

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B15007 Sequence: 3B05310 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**33.69**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**35.40**	1.25	2.50	5.00	X
206-44-0	Fluoranthene	**27.87**	1.25	2.50	5.00	
86-73-7	Fluorene	**25.34**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**26.44**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**18.27**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**14.87**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**19.83**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**26.72**	1.25	2.50	5.00	
78-59-1	Isophorone	**26.59**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**23.92**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**22.15**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**42.61**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**36.73**	1.25	2.50	5.00	
91-20-3	Naphthalene	**23.39**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**28.48**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**27.22**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**33.06**	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	**27.47**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**16.28**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**56.10**	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	**25.19**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**32.34**	1.25	2.50	5.00	X
87-86-5	Pentachlorophenol	**47.57**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**27.11**	1.25	2.50	5.00	
108-95-2	Phenol	**12.91**	1.25	2.50	5.00	
129-00-0	Pyrene	**27.59**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**51.12**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**55.78**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.53	79.1	50 - 110	
2-Fluorophenol	100.0	32.54	32.5	20 - 110	
Nitrobenzene-d5	50.00	41.72	83.4	40 - 110	
Phenol-d6	100.0	20.04	20.0	0 - 110	
Terphenyl-d14	50.00	43.00	86.0	50 - 135	
2,4,6-Tribromophenol	100.0	76.68	76.7	40 - 125	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B20017-BLK1 File ID: B20017B1.D

Sampled: Prepared: Analyzed: 02/26/13 17:20

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B20017-BLK1 File ID: B20017B1.D

Sampled: Prepared: Analyzed: 02/26/13 17:20

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	UX
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UX
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	UX
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	UX
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	UX
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.72	87.4	50 - 110	
2-Fluorophenol	100.0	43.76	43.8	20 - 110	
Nitrobenzene-d5	50.00	46.79	93.6	40 - 110	
Phenol-d6	100.0	25.33	25.3	0 - 110	
Terphenyl-d14	50.00	51.92	104	50 - 135	
2,4,6-Tribromophenol	100.0	101.5	102	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B20017-BS1 File ID: B20017L1.D

Sampled: Prepared: Analyzed: 02/26/13 17:47

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**29.20**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**29.73**	1.25	2.50	5.00	
98-86-2	Acetophenone	**36.57**	1.25	2.50	5.00	X
120-12-7	Anthracene	**33.11**	1.25	2.50	5.00	
1912-24-9	Atrazine	**38.03**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**36.53**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	U
56-55-3	Benzo(a)anthracene	**33.47**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**30.33**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**34.73**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**32.42**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**31.00**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**31.23**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**35.63**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**43.71**	1.25	2.50	5.00	X
105-60-2	Caprolactam	**5.721**	1.25	2.50	5.00	
86-74-8	Carbazole	**38.29**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**66.92**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**32.41**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**32.82**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**33.70**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**34.70**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**25.59**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**62.72**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**30.51**	1.25	2.50	5.00	
218-01-9	Chrysene	**33.87**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**32.64**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**29.07**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**39.32**	1.25	2.50	5.00	X
91-94-1	3,3'-Dichlorobenzidine	**30.95**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**64.06**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**35.86**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**64.11**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**34.42**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**68.11**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**51.53**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**32.22**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**30.94**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**40.36**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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

Matrix: Laboratory ID: 3B20017-BS1 File ID: B20017L1.D

Sampled: Prepared: Analyzed: 02/26/13 17:47

Solids: Preparation: EXT_3510 Dilution:

Batch: 3B20017 Sequence: 3B05809 Calibration: 2272005 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**37.56**	1.25	2.50	5.00	X
117-81-7	Bis(2-ethylhexyl)phthalate	**41.30**	1.25	2.50	5.00	X
206-44-0	Fluoranthene	**33.66**	1.25	2.50	5.00	
86-73-7	Fluorene	**29.93**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**31.95**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**19.68**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**16.94**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**21.60**	1.25	2.50	5.00	X
193-39-5	Indeno(1,2,3-cd)pyrene	**31.22**	1.25	2.50	5.00	
78-59-1	Isophorone	**30.06**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**28.44**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**25.85**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**49.14**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**44.25**	1.25	2.50	5.00	
91-20-3	Naphthalene	**26.24**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**35.24**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**31.39**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**39.97**	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	**32.35**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**20.84**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**68.42**	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	**28.77**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**38.39**	1.25	2.50	5.00	X
87-86-5	Pentachlorophenol	**65.95**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**32.14**	1.25	2.50	5.00	
108-95-2	Phenol	**17.41**	1.25	2.50	5.00	
129-00-0	Pyrene	**32.84**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**66.57**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**66.69**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.93	85.9	50 - 110	
2-Fluorophenol	100.0	45.25	45.3	20 - 110	
Nitrobenzene-d5	50.00	46.16	92.3	40 - 110	
Phenol-d6	100.0	25.91	25.9	0 - 110	
Terphenyl-d14	50.00	51.25	102	50 - 135	
2,4,6-Tribromophenol	100.0	99.04	99.0	40 - 125	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/26/12
Instrument ID:	MS-BNA1	Injection Time:	17:40
Sequence:	2I27213	Lab Sample ID:	2I27213-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.4	PASS
68	Less than 2% of 69	0.277	PASS
69	Less than 200% of 198	53	PASS
70	Less than 2% of 69	0.589	PASS
127	40 - 60% of 198	48.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.91	PASS
275	10 - 30% of 198	18.4	PASS
365	1 - 200% of 198	2.13	PASS
441	0.001 - 100% of 443	72.2	PASS
442	40 - 200% of 198	59.2	PASS
443	17 - 23% of 442	19.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/27/12
Instrument ID:	MS-BNA1	Injection Time:	15:42
Sequence:	2I27213	Lab Sample ID:	2I27213-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.5	PASS
68	Less than 2% of 69	0.442	PASS
69	Less than 200% of 198	51.2	PASS
70	Less than 2% of 69	0.674	PASS
127	40 - 60% of 198	48.3	PASS
197	Less than 1% of 198	0.0185	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.76	PASS
275	10 - 30% of 198	18.5	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	74.7	PASS
442	40 - 200% of 198	59.6	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/21/13
Instrument ID:	MS-BNA1	Injection Time:	11:58
Sequence:	3B05310	Lab Sample ID:	3B05310-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.4	PASS
68	Less than 2% of 69	2	PASS
69	Less than 200% of 198	55.6	PASS
70	Less than 2% of 69	0.653	PASS
127	40 - 60% of 198	57.1	PASS
197	Less than 1% of 198	0.0161	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.05	PASS
275	10 - 30% of 198	19.1	PASS
365	1 - 200% of 198	2.35	PASS
441	0.001 - 100% of 443	72.3	PASS
442	40 - 200% of 198	58	PASS
443	17 - 23% of 442	18.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/26/13
Instrument ID:	MS-BNA1	Injection Time:	14:41
Sequence:	3B05809	Lab Sample ID:	3B05809-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.6	PASS
68	Less than 2% of 69	0.956	PASS
69	Less than 200% of 198	55.4	PASS
70	Less than 2% of 69	0.664	PASS
127	40 - 60% of 198	54.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.29	PASS
275	10 - 30% of 198	18.4	PASS
365	1 - 200% of 198	2.92	PASS
441	0.001 - 100% of 443	73.9	PASS
442	40 - 200% of 198	49.7	PASS
443	17 - 23% of 442	19.1	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I27213	Instrument:	MS-BNA1
Calibration:	2272005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2I27213-TUN1	SEQ-TUN1.D	09/26/12 17:40
Cal Standard	2I27213-CAL1	SEQ-CAL1.D	09/26/12 18:03
Cal Standard	2I27213-CAL2	SEQ-CAL2.D	09/26/12 18:30
Cal Standard	2I27213-CAL3	SEQ-CAL3.D	09/26/12 18:58
Cal Standard	2I27213-CAL4	SEQ-CAL4.D	09/26/12 19:25
Cal Standard	2I27213-CAL5	SEQ-CAL5.D	09/26/12 19:52
Cal Standard	2I27213-CAL6	SEQ-CAL6.D	09/26/12 20:20
Cal Standard	2I27213-CAL7	SEQ-CAL7.D	09/26/12 20:47
Cal Standard	2I27213-CAL8	SEQ-CAL8.D	09/26/12 21:14
Cal Standard	2I27213-CAL9	SEQ-CAL9.D	09/26/12 21:42
Cal Standard	2I27213-CALA	SEQ-CALA.D	09/26/12 22:09
Cal Standard	2I27213-CALB	SEQ-CALB.D	09/26/12 22:36
Cal Standard	2I27213-CALC	SEQ-CALC.D	09/26/12 23:04
Cal Standard	2I27213-CALD	SEQ-CALD.D	09/26/12 23:31
Cal Standard	2I27213-CALE	SEQ-CALE.D	09/26/12 23:59
Cal Standard	2I27213-CALF	SEQ-CALF.D	09/27/12 00:26
Cal Standard	2I27213-CALG	SEQ-CALG.D	09/27/12 00:53
Initial Cal Check	2I27213-ICV1	SEQ-ICV1.D	09/27/12 01:21
Initial Cal Check	2I27213-ICV2	SEQ-ICV2.D	09/27/12 01:48
Initial Cal Check	2I27213-ICV3	SEQ-ICV3.D	09/27/12 02:16
MS Tune	2I27213-TUN2	SEQ-TUN2.D	09/27/12 15:42
Initial Cal Check	2I27213-ICV4	SEQ-ICV4.D	09/27/12 16:07

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	3B05310	Instrument:	MS-BNA1
Calibration:	2272005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	3B05310-TUN1	SEQ-TUN1.D	02/21/13 11:58
Calibration Check	3B05310-CCV1	SEQ-CCV1.D	02/21/13 12:21
Calibration Check	3B05310-CCV2	SEQ-CCV2.D	02/21/13 12:49
Blank	3B15007-BLK1	B15007B1.D	02/21/13 15:58
LCS	3B15007-BS1	B15007L1.D	02/21/13 16:25
GW1007	1302087-01	0208701.D	02/21/13 18:40
GW1008	1302087-03	0208703.D	02/21/13 19:07
GW1009	1302087-05	0208705.D	02/21/13 19:34
GW1010	1302087-07	0208707.D	02/21/13 20:01
GW1011	1302087-09	0208709.D	02/21/13 20:28
GW1012	1302087-11	0208711.D	02/21/13 20:55

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	3B05809	Instrument:	MS-BNA1
Calibration:	2272005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	3B05809-TUN1	SEQ-TUN1.D	02/26/13 14:41
Calibration Check	3B05809-CCV1	SEQ-CCV1.D	02/26/13 15:04
Calibration Check	3B05809-CCV2	SEQ-CCV2.D	02/26/13 15:31
Blank	3B20017-BLK1	B20017B1.D	02/26/13 17:20
LCS	3B20017-BS1	B20017L1.D	02/26/13 17:47
GW1013	1302101-01	0210101.D	02/26/13 18:14
GW1014	1302101-03	0210103.D	02/26/13 18:41
GW1015	1302101-05	0210105.D	02/26/13 19:08
GW1016	1302101-07	0210107.D	02/26/13 19:35

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05310
Instrument: MS-BNA1
Calibration: 2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (3B05310-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/21/13 12:21			
1,4-Dichlorobenzene-d4	517691	5.046	618251	4.91	84	50 - 200	0.1360	+/-0.50	
Naphthalene-d8	1977337	6.836	2241342	6.627	88	50 - 200	0.2090	+/-0.50	
Acenaphthene-d10	1055424	9.1	1140029	8.878	93	50 - 200	0.2220	+/-0.50	
Phenanthrene-d10	1801227	10.881	2018387	10.66	89	50 - 200	0.2210	+/-0.50	
Chrysene-d12	1465813	14.087	1657109	13.914	88	50 - 200	0.1730	+/-0.50	
Perylene-d12	1414272	16.083	1567256	15.995	90	50 - 200	0.0880	+/-0.50	
Calibration Check (3B05310-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 02/21/13 12:49			
1,4-Dichlorobenzene-d4	549177	5.053	517691	5.046	106	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	2342459	6.831	1977337	6.836	118	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1185536	9.1	1055424	9.1	112	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1973104	10.877	1801227	10.881	110	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	1679441	14.085	1465813	14.087	115	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1605382	16.088	1414272	16.083	114	50 - 200	0.0050	+/-0.50	
Blank (3B15007-BLK1)			Lab File ID: B15007B1.D			Analyzed: 02/21/13 15:58			
1,4-Dichlorobenzene-d4	537815	5.055	517691	5.046	104	50 - 200	0.0090	+/-0.50	
Naphthalene-d8	2232105	6.834	1977337	6.836	113	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1126893	9.106	1055424	9.1	107	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	1900010	10.876	1801227	10.881	105	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1570068	14.091	1465813	14.087	107	50 - 200	0.0040	+/-0.50	
Perylene-d12	1423542	16.09	1414272	16.083	101	50 - 200	0.0070	+/-0.50	
LCS (3B15007-BS1)			Lab File ID: B15007L1.D			Analyzed: 02/21/13 16:25			
1,4-Dichlorobenzene-d4	559074	5.052	517691	5.046	108	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	2155020	6.833	1977337	6.836	109	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1151194	9.105	1055424	9.1	109	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1935078	10.881	1801227	10.881	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1562458	14.091	1465813	14.087	107	50 - 200	0.0040	+/-0.50	
Perylene-d12	1455400	16.083	1414272	16.083	103	50 - 200	0.0000	+/-0.50	
GW1007 (1302087-01)			Lab File ID: 0208701.D			Analyzed: 02/21/13 18:40			
1,4-Dichlorobenzene-d4	589880	5.046	517691	5.046	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2398326	6.827	1977337	6.836	121	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1277439	9.098	1055424	9.1	121	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2120632	10.876	1801227	10.881	118	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1726143	14.089	1465813	14.087	118	50 - 200	0.0020	+/-0.50	
Perylene-d12	1601463	16.086	1414272	16.083	113	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05310
Instrument: MS-BNA1
Calibration: 2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW1008 (1302087-03)			Lab File ID: 0208703.D			Analyzed: 02/21/13 19:07			
1,4-Dichlorobenzene-d4	612625	5.046	517691	5.046	118	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2574755	6.826	1977337	6.836	130	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1326036	9.096	1055424	9.1	126	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	2171993	10.877	1801227	10.881	121	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	1775407	14.092	1465813	14.087	121	50 - 200	0.0050	+/-0.50	
Perylene-d12	1673121	16.088	1414272	16.083	118	50 - 200	0.0050	+/-0.50	
GW1009 (1302087-05)			Lab File ID: 0208705.D			Analyzed: 02/21/13 19:34			
1,4-Dichlorobenzene-d4	633582	5.054	517691	5.046	122	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	2703042	6.834	1977337	6.836	137	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1373418	9.103	1055424	9.1	130	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2249894	10.88	1801227	10.881	125	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1831077	14.088	1465813	14.087	125	50 - 200	0.0010	+/-0.50	
Perylene-d12	1744048	16.09	1414272	16.083	123	50 - 200	0.0070	+/-0.50	
GW1010 (1302087-07)			Lab File ID: 0208707.D			Analyzed: 02/21/13 20:01			
1,4-Dichlorobenzene-d4	631779	5.056	517691	5.046	122	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	2619601	6.837	1977337	6.836	132	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1383106	9.106	1055424	9.1	131	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	2198129	10.884	1801227	10.881	122	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1809112	14.09	1465813	14.087	123	50 - 200	0.0030	+/-0.50	
Perylene-d12	1663975	16.085	1414272	16.083	118	50 - 200	0.0020	+/-0.50	
GW1011 (1302087-09)			Lab File ID: 0208709.D			Analyzed: 02/21/13 20:28			
1,4-Dichlorobenzene-d4	615836	5.056	517691	5.046	119	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	2567883	6.837	1977337	6.836	130	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1323792	9.098	1055424	9.1	125	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2186971	10.878	1801227	10.881	121	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1811425	14.088	1465813	14.087	124	50 - 200	0.0010	+/-0.50	
Perylene-d12	1663285	16.084	1414272	16.083	118	50 - 200	0.0010	+/-0.50	
GW1012 (1302087-11)			Lab File ID: 0208711.D			Analyzed: 02/21/13 20:55			
1,4-Dichlorobenzene-d4	590701	5.057	517691	5.046	114	50 - 200	0.0110	+/-0.50	
Naphthalene-d8	2436460	6.836	1977337	6.836	123	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1280589	9.106	1055424	9.1	121	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	2084435	10.876	1801227	10.881	116	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1760964	14.094	1465813	14.087	120	50 - 200	0.0070	+/-0.50	
Perylene-d12	1642385	16.086	1414272	16.083	116	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05809
Instrument: MS-BNA1
Calibration: 2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (3B05809-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/26/13 15:04			
1,4-Dichlorobenzene-d4	471400	5.074	618251	4.91	76	50 - 200	0.1640	+/-0.50	
Naphthalene-d8	1928166	6.853	2241342	6.627	86	50 - 200	0.2260	+/-0.50	
Acenaphthene-d10	1017973	9.118	1140029	8.878	89	50 - 200	0.2400	+/-0.50	
Phenanthrene-d10	1753804	10.9	2018387	10.66	87	50 - 200	0.2400	+/-0.50	
Chrysene-d12	1430250	14.104	1657109	13.914	86	50 - 200	0.1900	+/-0.50	
Perylene-d12	1352997	16.106	1567256	15.995	86	50 - 200	0.1110	+/-0.50	
Calibration Check (3B05809-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 02/26/13 15:31			
1,4-Dichlorobenzene-d4	510082	5.069	471400	5.074	108	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2214700	6.846	1928166	6.853	115	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1082544	9.116	1017973	9.118	106	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1835168	10.892	1753804	10.9	105	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1511513	14.103	1430250	14.104	106	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1472535	16.104	1352997	16.106	109	50 - 200	-0.0020	+/-0.50	
Blank (3B20017-BLK1)			Lab File ID: B20017B1.D			Analyzed: 02/26/13 17:20			
1,4-Dichlorobenzene-d4	411959	5.068	471400	5.074	87	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	1698094	6.841	1928166	6.853	88	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10	866648	9.114	1017973	9.118	85	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1485976	10.895	1753804	10.9	85	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1219645	14.096	1430250	14.104	85	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1115662	16.098	1352997	16.106	82	50 - 200	-0.0080	+/-0.50	
LCS (3B20017-BS1)			Lab File ID: B20017L1.D			Analyzed: 02/26/13 17:47			
1,4-Dichlorobenzene-d4	464661	5.068	471400	5.074	99	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	1884030	6.846	1928166	6.853	98	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	988410	9.118	1017973	9.118	97	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1639409	10.894	1753804	10.9	93	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1321500	14.102	1430250	14.104	92	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1233899	16.097	1352997	16.106	91	50 - 200	-0.0090	+/-0.50	
GW1013 (1302101-01)			Lab File ID: 0210101.D			Analyzed: 02/26/13 18:14			
1,4-Dichlorobenzene-d4	495057	5.068	471400	5.074	105	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2043603	6.847	1928166	6.853	106	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1039095	9.116	1017973	9.118	102	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1618990	10.885	1753804	10.9	92	50 - 200	-0.0150	+/-0.50	
Chrysene-d12	1434055	14.097	1430250	14.104	100	50 - 200	-0.0070	+/-0.50	
Perylene-d12	1301986	16.097	1352997	16.106	96	50 - 200	-0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 3B05809
Instrument: MS-BNA1
Calibration: 2272005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW1014 (1302101-03)			Lab File ID: 0210103.D			Analyzed: 02/26/13 18:41			
1,4-Dichlorobenzene-d4	478914	5.063	471400	5.074	102	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	1931999	6.843	1928166	6.853	100	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	982869	9.112	1017973	9.118	97	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1631214	10.892	1753804	10.9	93	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1372620	14.1	1430250	14.104	96	50 - 200	-0.0040	+/-0.50	
Perylene-d12	1288796	16.092	1352997	16.106	95	50 - 200	-0.0140	+/-0.50	
GW1015 (1302101-05)			Lab File ID: 0210105.D			Analyzed: 02/26/13 19:08			
1,4-Dichlorobenzene-d4	474599	5.063	471400	5.074	101	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	1935921	6.843	1928166	6.853	100	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	977417	9.112	1017973	9.118	96	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1584229	10.892	1753804	10.9	90	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1387238	14.101	1430250	14.104	97	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1273976	16.099	1352997	16.106	94	50 - 200	-0.0070	+/-0.50	
GW1016 (1302101-07)			Lab File ID: 0210107.D			Analyzed: 02/26/13 19:35			
1,4-Dichlorobenzene-d4	504499	5.063	471400	5.074	107	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	2103763	6.844	1928166	6.853	109	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1061754	9.113	1017973	9.118	104	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1762439	10.888	1753804	10.9	100	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1484531	14.099	1430250	14.104	104	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1374879	16.095	1352997	16.106	102	50 - 200	-0.0110	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.078358	10	1.091539	20	1.150309	40	1.057294	50	1.083217	60	1.161989
Acenaphthylene	5	1.747665	10	1.809821	20	1.880925	40	1.815603	50	1.860143	60	1.917333
Acetophenone												
Aniline	5	2.034952	10	2.098154	20	2.088473	40	2.015467	50	2.015704	60	1.995186
Anthracene	5	0.9557116	10	1.051101	20	1.032974	40	1.109723	50	1.037431	60	1.068324
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.065938	10	1.180723	20	1.214262	40	1.20537	50	1.245553	60	1.216726
Benzo(a)pyrene	5	0.9506992	10	1.003822	20	1.083428	40	1.054362	50	1.08976	60	1.093509
Benzo(b)fluoranthene	5	1.094804	10	1.141286	20	1.240416	40	1.159298	50	1.265436	60	1.130716
Benzo(g,h,i)perylene	5	0.873601	10	0.9208451	20	0.9811268	40	0.9604755	50	0.9942328	60	0.9934889
Benzoic acid	5	~~3.336673E-02~~	10	~~0.1042989~~	20	0.1781992	40	0.2115791	50	0.2493121	60	0.243875
Benzo(k)fluoranthene	5	1.17522	10	1.187723	20	1.232882	40	1.174034	50	1.110847	60	1.274912
Benzyl alcohol	5	0.7801675	10	0.8684121	20	0.8960432	40	0.9259088	50	0.9350818	60	0.9476074
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.1840548	10	0.1903484	20	0.1851788	40	0.1896567	50	0.1884242	60	0.192172
Butylbenzylphthalate	5	0.5378174	10	0.6313114	20	0.7048811	40	0.7407231	50	0.7440543	60	0.747273
Caprolactam												
Carbazole	5	0.9226635	10	1.009006	20	0.9921687	40	1.031058	50	1.000825	60	0.9766577
4-Chloro-3-methylphenol	5	0.2896661	10	0.3081843	20	0.3239889	40	0.3149782	50	0.3205197	60	0.3138509
4-Chloroaniline	5	0.412414	10	0.4306366	20	0.4837794	40	0.436585	50	0.4833539	60	0.4436474
Bis(2-chloroethoxy)methane	5	0.4042298	10	0.4296612	20	0.4504452	40	0.431978	50	0.448029	60	0.4311348
Bis(2-chloroethyl)ether	5	1.282842	10	1.377296	20	1.404086	40	1.383948	50	1.406371	60	1.397247
2,2'-Oxybis-1-chloropropane	5	2.079575	10	2.070875	20	2.085243	40	1.938042	50	1.956399	60	1.997282
2-Chloronaphthalene	5	1.134423	10	1.123192	20	1.159795	40	1.086798	50	1.143536	60	1.196723
2-Chlorophenol	5	1.350901	10	1.424765	20	1.43568	40	1.423436	50	1.441421	60	1.438945
4-Chlorophenyl phenyl ether	5	0.6566982	10	0.6461916	20	0.6558058	40	0.616605	50	0.662581	60	0.6436193
Chrysene	5	1.180592	10	1.118632	20	1.129139	40	1.112537	50	1.093442	60	1.117172
Dibenz(a,h)anthracene	5	0.8520107	10	0.9191281	20	0.9859254	40	0.964782	50	0.9906383	60	0.9921989
Dibenzofuran	5	1.536132	10	1.588926	20	1.616118	40	1.515229	50	1.610123	60	1.625652

INITIAL CALIBRATION DATA

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.121845	10	1.364031	20	1.381968	40	1.450375	50	1.403412	60	1.409989
1,4-Dichlorobenzene	5	1.418111	10	1.455447	20	1.467162	40	1.438916	50	1.46772	60	1.457618
1,3-Dichlorobenzene	5	1.432105	10	1.423908	20	1.485136	40	1.419986	50	1.450071	60	1.478233
1,2-Dichlorobenzene	5	1.360908	10	1.386994	20	1.408355	40	1.331052	50	1.372344	60	1.378169
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2504963	10	0.2746682	20	0.2884465	40	0.2773906	50	0.2919712	60	0.2820978
Diethylphthalate	5	1.344265	10	1.37675	20	1.48977	40	1.350549	50	1.414839	60	1.45629
2,4-Dimethylphenol	5	0.3629362	10	0.3797333	20	0.3870518	40	0.3639624	50	0.3879981	60	0.3740538
Dimethyl phthalate	5	1.317984	10	1.319991	20	1.366723	40	1.297807	50	1.329765	60	1.37034
4,6-Dinitro-2-methylphenol	5	~~5.165542E-02~~	10	0.1214892	20	0.1473356	40	0.1691331	50	0.1729752	60	0.1701025
2,4-Dinitrophenol	5		10	~~0.1170329~~	20	0.1954921	40	0.2259456	50	0.2475596	60	0.2522798
2,4-Dinitrotoluene	5	0.3919056	10	0.409689	20	0.449581	40	0.445946	50	0.4438291	60	0.4615775
2,6-Dinitrotoluene	5	0.3195336	10	0.3227965	20	0.3468408	40	0.3285664	50	0.3350427	60	0.3365442
Di-n-octylphthalate	5	0.9851135	10	1.323817	20	1.615828	40	1.726339	50	1.792135	60	1.80512
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8195813	10	0.9088856	20	0.8431758	40	0.8592516	50	0.8415894	60	0.8397251
Bis(2-ethylhexyl)phthalate	5	0.6674583	10	0.792665	20	0.9650525	40	0.948891	50	0.9797275	60	0.9617742
Fluoranthene	5	1.033247	10	1.140173	20	1.114859	40	1.165934	50	1.147447	60	1.135387
Fluorene	5	1.280252	10	1.303341	20	1.344766	40	1.293968	50	1.278522	60	1.299757
2-Fluorobiphenyl	5	1.331933	10	1.313736	20	1.347718	40	1.260582	50	1.292124	60	1.335712
2-Fluorophenol	10	1.261463	20	1.333369	40	1.391816	80	1.373594	100	1.371486	120	1.416233
Hexachlorobenzene	5	0.2117027	10	0.2188891	20	0.2125305	40	0.2190107	50	0.2125396	60	0.2126697
Hexachlorobutadiene	5	0.18889	10	0.1880685	20	0.1903446	40	0.184078	50	0.1925968	60	0.1904308
Hexachlorocyclopentadiene	5	0.3361692	10	0.3564788	20	0.3928528	40	0.389935	50	0.4009408	60	0.4104188
Hexachloroethane	5	0.6744255	10	0.6618072	20	0.6777116	40	0.6819102	50	0.6541621	60	0.6691686
Indeno(1,2,3-cd)pyrene	5	1.023988	10	1.097857	20	1.164043	40	1.127006	50	1.168136	60	1.159338
Isophorone	5	0.6544687	10	0.6904889	20	0.7048065	40	0.6891412	50	0.7239657	60	0.6868411
1-Methylnaphthalene	5	0.5349277	10	0.5277341	20	0.5451573	40	0.5308657	50	0.5315541	60	0.5158618
2-Methylnaphthalene	5	0.5363026	10	0.5497478	20	0.5829233	40	0.5598716	50	0.5678542	60	0.5475243
2-Methylphenol	5	1.16664	10	1.257702	20	1.280844	40	1.262866	50	1.258925	60	1.261235

INITIAL CALIBRATION DATA

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.226175	10	1.306254	20	1.312226	40	1.29937	50	1.326631	60	1.343047
4-Methylphenol	5	1.226175	10	1.306254	20	1.312226	40	1.29937	50	1.326631	60	1.343047
3-Methylphenol/4-Methylphenol	5	1.226175	10	1.306254	20	1.312226	40	1.29937	50	1.326631	60	1.343047
Naphthalene	5	1.023081	10	1.070714	20	1.080121	40	1.036293	50	1.077688	60	1.042967
4-Nitroaniline	5	0.2849379	10	0.342558	20	0.3877042	40	0.3633968	50	0.3862954	60	0.3990397
3-Nitroaniline	5	0.3433982	10	0.3754444	20	0.3803338	40	0.3819068	50	0.3847421	60	0.3961158
2-Nitroaniline	5	0.2894728	10	0.3136377	20	0.3494143	40	0.3458329	50	0.3803824	60	0.3823772
Nitrobenzene	5	0.3669764	10	0.3705092	20	0.400336	40	0.3785477	50	0.3925081	60	0.3821948
Nitrobenzene-d5	5	0.3518869	10	0.3639233	20	0.3939298	40	0.3709787	50	0.3847197	60	0.3806891
4-Nitrophenol	5	~~0.1505435~~	10	0.2310599	20	0.2719388	40	0.271958	50	0.2767402	60	0.285024
2-Nitrophenol	5	0.1700175	10	0.191862	20	0.2091951	40	0.2130391	50	0.2083903	60	0.2076023
N-Nitrosodimethylamine	5	0.6059567	10	0.6222091	20	0.6532175	40	0.6521997	50	0.6656932	60	0.6665015
N-Nitrosodiphenylamine	5	0.5883223	10	0.6268656	20	0.6106598	40	0.6249416	50	0.6043468	60	0.6158201
N-Nitroso-di-n-propylamine	5	0.8766796	10	0.9234361	20	0.9689328	40	0.9542772	50	0.9653697	60	0.9358801
Pentachlorophenol	5	~~8.199479E-02~~	10	0.1301918	20	0.1425881	40	0.1525982	50	0.1476072	60	0.1450178
Phenanthrene	5	1.000914	10	1.119326	20	1.017577	40	1.073733	50	1.018844	60	1.039659
Phenol	5	1.865674	10	1.855152	20	1.899259	40	1.894641	50	1.864679	60	1.837211
Phenol-d6	10	1.656049	20	1.69728	40	1.737889	80	1.671449	100	1.669154	120	1.652624
Pyrene	5	1.354835	10	1.441816	20	1.436668	40	1.429908	50	1.445343	60	1.402609
Pyridine	5	1.16835	10	1.532897	20	1.35295	40	1.433837	50	1.438428	60	1.466185
Terphenyl-d14	5	0.7571837	10	0.7839006	20	0.8209707	40	0.7956398	50	0.8018879	60	0.7793284
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2909695	10	0.3003154	20	0.3412436	40	0.3233075	50	0.3633597	60	0.3434019
2,4,6-Tribromophenol	10	0.1011111	20	0.1213375	40	0.1158315	80	0.1202189	100	0.1150394	120	0.1131525
1,2,4-Trichlorobenzene	5	0.3180939	10	0.3245395	20	0.3356369	40	0.3329124	50	0.3316005	60	0.3157609
2,4,6-Trichlorophenol	5	0.3512483	10	0.3772235	20	0.4091251	40	0.4022465	50	0.4133945	60	0.422525
2,4,5-Trichlorophenol	5	0.3551846	10	0.4100343	20	0.4109608	40	0.3964285	50	0.422446	60	0.4265941

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

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	1.142599	100	1.071342								
Acenaphthylene	80	1.926015	100	1.763933								
Acetophenone					5	1.619646	10	1.740843	20	1.810852	40	1.833286
Aniline	80	1.876443	100	1.840774								
Anthracene	80	1.047485	100	1.032091								
Atrazine					5	0.192551	10	0.1880945	20	0.200026	40	0.2075385
Benzaldehyde					5	1.001283	10	1.041618	20	1.03999	40	1.031096
Benzidine					5	0.6871057	10	0.7213301	20	0.7648218	40	0.7238901
Benzo(a)anthracene	80	1.249174	100	1.180346								
Benzo(a)pyrene	80	1.088128	100	1.090548								
Benzo(b)fluoranthene	80	1.100118	100	1.147987								
Benzo(g,h,i)perylene	80	0.9488366	100	0.9725153								
Benzoic acid	80	0.2606964	100	~~0.290386~~								
Benzo(k)fluoranthene	80	1.220071	100	1.175463								
Benzyl alcohol	80	0.9277269	100	0.9304952								
1,1-Biphenyl					5	1.388813	10	1.453335	20	1.453578	40	1.440055
4-Bromophenyl-phenylether	80	0.187341	100	0.183782								
Butylbenzylphthalate	80	0.7523327	100	0.7605151								
Caprolactam					5	6.971707E-02	10	9.951621E-02	20	0.1069335	40	0.105017
Carbazole	80	1.041472	100	1.004376								
4-Chloro-3-methylphenol	80	0.311311	100	0.3111777								
4-Chloroaniline	80	0.4311253	100	0.4362476								
Bis(2-chloroethoxy)methane	80	0.409009	100	0.4381248								
Bis(2-chloroethyl)ether	80	1.351439	100	1.370473								
2,2'-Oxybis-1-chloropropane	80	1.857614	100	1.77123								
2-Chloronaphthalene	80	1.143831	100	1.125047								
2-Chlorophenol	80	1.425647	100	1.423994								
4-Chlorophenyl phenyl ether	80	0.6773906	100	0.6240733								
Chrysene	80	1.118683	100	1.061078								
Dibenz(a,h)anthracene	80	0.9618631	100	0.9907785								
Dibenzofuran	80	1.613875	100	1.621238								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	1.347432	100	1.286163								
1,4-Dichlorobenzene	80	1.421946	100	1.414088								
1,3-Dichlorobenzene	80	1.42303	100	1.414315								
1,2-Dichlorobenzene	80	1.312575	100	1.319473								
3,3'-Dichlorobenzidine					5	0.389908	10	0.3846442	20	0.3921585	40	0.3962447
2,6-Dichlorophenol					5	0.241495	10	0.2709493	20	0.2740549	40	0.2648952
2,4-Dichlorophenol	80	0.2739669	100	0.2775039								
Diethylphthalate	80	1.489321	100	1.435245								
2,4-Dimethylphenol	80	0.3609158	100	0.3861622								
Dimethyl phthalate	80	1.405656	100	1.357664								
4,6-Dinitro-2-methylphenol	80	0.1734137	100	0.1876477								
2,4-Dinitrophenol	80	0.2604075	100	0.2744344								
2,4-Dinitrotoluene	80	0.480631	100	0.4468529								
2,6-Dinitrotoluene	80	0.341853	100	0.3416636								
Di-n-octylphthalate	80	1.86995	100	1.883711								
1,4-Dioxane					5	0.560875	10	0.5388576	20	0.5213462	40	0.5412179
1,2-Diphenylhydrazine	80	0.8709501	100	0.897269								
Bis(2-ethylhexyl)phthalate	80	0.9762106	100	0.9562367								
Fluoranthene	80	1.122532	100	1.113909								
Fluorene	80	1.271268	100	1.256196								
2-Fluorobiphenyl	80	1.297599	100	1.260379								
2-Fluorophenol	160	1.379472	200	1.387109								
Hexachlorobenzene	80	0.2111614	100	0.2033673								
Hexachlorobutadiene	80	0.181221	100	0.1873174								
Hexachlorocyclopentadiene	80	0.4143408	100	0.4053013								
Hexachloroethane	80	0.6355483	100	0.6420661								
Indeno(1,2,3-cd)pyrene	80	1.132948	100	1.155913								
Isophorone	80	0.6760179	100	0.7002178								
1-Methylnaphthalene	80	0.5023474	100	0.5083256								
2-Methylnaphthalene	80	0.5201554	100	0.5363237								
2-Methylphenol	80	1.210891	100	1.182174								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

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	1.236298	100	1.217924								
4-Methylphenol	80	1.236298	100	1.217924								
3-Methylphenol/4-Methylphenol	80	1.236298	100	1.217924								
Naphthalene	80	0.9735028	100	1.056734								
4-Nitroaniline	80	0.411538	100	0.4059048								
3-Nitroaniline	80	0.388965	100	0.4008611								
2-Nitroaniline	80	0.3695882	100	0.3849334								
Nitrobenzene	80	0.3701286	100	0.3843924								
Nitrobenzene-d5	80	0.3720713	100	0.3888643								
4-Nitrophenol	80	0.2912901	100	0.2992594								
2-Nitrophenol	80	0.2018061	100	0.2103176								
N-Nitrosodimethylamine	80	0.6413992	100	0.6562163								
N-Nitrosodiphenylamine	80	0.5963412	100	0.5813618								
N-Nitroso-di-n-propylamine	80	0.8974423	100	0.8892744								
Pentachlorophenol	80	0.1596069	100	0.1607682								
Phenanthrene	80	1.009526	100	1.010891								
Phenol	80	1.78643	100	1.778969								
Phenol-d6	160	1.589362	200	1.584416								
Pyrene	80	1.452824	100	1.38967								
Pyridine	80	1.321965	100	1.361542								
Terphenyl-d14	80	0.806259	100	0.7930337								
1,2,4,5-Tetrachlorobenzene					5	0.3109588	10	0.3283232	20	0.3120523	40	0.3055642
2,3,4,6-Tetrachlorophenol	80	0.3562242	100	0.3554636								
2,4,6-Tribromophenol	160	0.1162922	200	0.1177535								
1,2,4-Trichlorobenzene	80	0.301684	100	0.3124771								
2,4,6-Trichlorophenol	80	0.4381165	100	0.4183248								
2,4,5-Trichlorophenol	80	0.4423807	100	0.4369654								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

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	1.795168	60	1.82	80	1.787027	100	1.786568				
Aniline												
Anthracene												
Atrazine	50	0.2120339	60	0.2097702	80	0.1997883	100	0.2075006				
Benzaldehyde	50	1.026644	60	1.0362	80	0.9282079	100	0.9457477				
Benzidine	50	0.7950947	60	0.7880691	80	0.7680407	100	0.8209944				
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	1.422235	60	1.436807	80	1.351171	100	1.383309				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1102932	60	0.1151759	80	0.1068605	100	0.1068234				
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_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

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	0.4312434	60	0.4238883	80	0.4276871	100	0.4212366				
2,6-Dichlorophenol	50	0.2644257	60	0.2817538	80	0.2737493	100	0.2600474				
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	0.5248702	60	0.5145818	80	0.5227063	100	0.5117972				
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_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

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	0.3046199	60	0.3096163	80	0.2945385	100	0.2866329				
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_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.104581	3.667399	8.91525	4.192777E-02			CCC (20)	
Acenaphthylene	1.84018	3.632512	8.682375	3.114255E-02			CCC (20)	
Acetophenone	1.774174	3.851726	5.501125	2.361145E-02			CCC (20)	
Aniline	1.995644	4.626025	4.548875	9.483675E-02			CCC (20)	
Anthracene	1.041855	4.142428	10.737	4.386926E-02			CCC (20)	
Atrazine	0.2021629	4.235431	10.41287	6.554844E-02			CCC (20)	
Benzaldehyde	1.006348	4.459025	4.358	8.713657E-02			CCC (20)	
Benzidine	0.7586683	5.879218	12.31662	3.369084E-02			CCC (20)	
Benzo(a)anthracene	1.194761	4.851248	13.88937	3.244724E-02			CCC (20)	
Benzo(a)pyrene	1.056782	4.973005	15.90437	3.193249E-02			CCC (20)	
Benzo(b)fluoranthene	1.160008	5.331305	15.43212	3.248984E-02			CCC (20)	
Benzo(g,h,i)perylene	0.9556402	4.308529	17.9275	6.469576E-02			CCC (20)	
Benzoic acid	0.2287324	14.70025	6.4624	0.4386429			CCC (20)	
Benzo(k)fluoranthene	1.193894	4.101768	15.46912	0.0546399			CCC (20)	
Benzyl alcohol	0.9014304	6.108482	5.159625	8.622099E-02			CCC (20)	
1,1-Biphenyl	1.416163	2.651145	8.16025	5.658205E-02			CCC (20)	
4-Bromophenyl-phenylether	0.1876197	1.642047	10.138	2.504573E-02			CCC (20)	
Butylbenzylphthalate	0.7023635	11.18941	13.27325	1.993542E-02			CCC (20)	
Caprolactam	0.1025421	13.6366	7.15725	0.1932975			CCC (20)	
Carbazole	0.9972784	3.657535	10.959	3.609112E-02			CCC (20)	
4-Chloro-3-methylphenol	0.3117096	3.303953	7.44875	2.900505E-02			CCC (20)	
4-Chloroaniline	0.4447237	5.754276	6.7835	5.519815E-02			CCC (20)	
Bis(2-chloroethoxy)methane	0.4303265	3.846842	6.383375	3.673511E-02			CCC (20)	
Bis(2-chloroethyl)ether	1.371713	2.941024	4.639125	0.1018083			CCC (20)	
2,2'-Oxybis-1-chloropropane	1.969533	5.742854	5.368625	4.393517E-02			CCC (20)	
2-Chloronaphthalene	1.139168	2.77572	8.159125	6.302636E-02			CCC (20)	
2-Chlorophenol	1.420599	2.046808	4.6855	8.267222E-02			CCC (20)	
4-Chlorophenyl phenyl ether	0.6478706	3.083436	9.553	2.902302E-02			CCC (20)	
Chrysene	1.116409	3.008397	13.94612	3.815723E-02			CCC (20)	
Dibenz(a,h)anthracene	0.9571656	5.131775	17.5935	3.131882E-02			CCC (20)	
Dibenzofuran	1.590912	2.644566	9.110375	3.680324E-02			CCC (20)	
Di-n-butylphthalate	1.345652	7.626803	11.47675	1.523484E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.442626	1.545015	4.93625	5.027495E-02			CCC (20)	
1,3-Dichlorobenzene	1.440848	1.903295	4.862875	7.552796E-02			CCC (20)	
1,2-Dichlorobenzene	1.358734	2.529233	5.18875	8.005298E-02			CCC (20)	
3,3'-Dichlorobenzidine	0.4083764	4.734066	13.90538	2.273012E-02			CCC (20)	
2,6-Dichlorophenol	0.2664213	4.565875	6.7815	6.321973E-02			15	
2,4-Dichlorophenol	0.2770677	4.521523	6.48225	3.371409E-02			CCC (20)	
Diethylphthalate	1.419629	4.096827	9.5105	7.334255E-02			CCC (20)	
2,4-Dimethylphenol	0.3753517	3.065619	6.266	3.594803E-02			CCC (20)	
Dimethyl phthalate	1.345741	2.629253	8.6395	6.825815E-02			CCC (20)	
4,6-Dinitro-2-methylphenol	0.1631567	13.40917	9.679714	7.663445E-02			CCC (20)	
2,4-Dinitrophenol	0.2426865	11.5747	8.997834	4.513503E-02			CCC (20)	
2,4-Dinitrotoluene	0.4412515	6.36668	9.185	5.476163E-02			CCC (20)	
2,6-Dinitrotoluene	0.3341051	2.899851	8.71275	4.684148E-02			CCC (20)	
Di-n-octylphthalate	1.625252	19.42695	14.95388	2.252079E-02	0.9995969		CCC (20)	
1,4-Dioxane	0.5295315	3.094231	1.882	0.2712203			15	
1,2-Diphenylhydrazine	0.8600535	3.561029	9.73925	3.184954E-02			CCC (20)	
Bis(2-ethylhexyl)phthalate	0.906002	12.58977	14.07613	1.959701E-02			CCC (20)	
Fluoranthene	1.121686	3.546909	12.12612	3.525315E-02			CCC (20)	
Fluorene	1.291009	2.070254	9.530125	4.048329E-02			CCC (20)	
2-Fluorobiphenyl	1.304973	2.550458	8.05825	3.909822E-02			CCC (20)	
2-Fluorophenol	1.364318	3.490521	3.41725	0.1410522			CCC (20)	
Hexachlorobenzene	0.2127339	2.307244	10.303	2.203108E-02			CCC (20)	
Hexachlorobutadiene	0.1878684	1.960866	6.914	5.031228E-02			CCC (20)	
Hexachlorocyclopentadiene	0.3883047	7.132773	7.8515	3.398346E-02			CCC (20)	
Hexachloroethane	0.6620999	2.557715	5.59625	7.371592E-02			CCC (20)	
Indeno(1,2,3-cd)pyrene	1.128654	4.291234	17.562	4.681499E-02			CCC (20)	
Isophorone	0.6907435	2.967858	6.04575	7.629027E-02			CCC (20)	
1-Methylnaphthalene	0.5245967	2.755911	7.68475	2.290911E-02			CCC (20)	
2-Methylnaphthalene	0.5500879	3.617338	7.54875	4.032424E-02			CCC (20)	
2-Methylphenol	1.23516	3.448355	5.357625	2.996493E-02			CCC (20)	
3-Methylphenol	1.283491	3.818632	5.568375	8.424321E-02			CCC (20)	
4-Methylphenol	1.283491	3.818632	5.568375	8.424321E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_079
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2272005
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 9/26/12 18:03 9/27/12 0:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.283491	3.818632	5.568375	8.424321E-02			15	
Naphthalene	1.045138	3.387294	6.650625	4.515734E-02			CCC (20)	
4-Nitroaniline	0.3726718	11.29913	9.632125	0.1008701			CCC (20)	
3-Nitroaniline	0.3814709	4.588481	8.87625	7.323247E-02			CCC (20)	
2-Nitroaniline	0.3519549	9.928968	8.35375	5.603041E-02			CCC (20)	
Nitrobenzene	0.3806992	3.059174	5.73	4.682199E-02			CCC (20)	
Nitrobenzene-d5	0.3758829	3.698424	5.709125	2.613411E-02			CCC (20)	
4-Nitrophenol	0.2753243	7.99335	9.122572	4.434523E-02			CCC (20)	
2-Nitrophenol	0.2015288	7.114383	6.162	5.347405E-02			CCC (20)	
N-Nitrosodimethylamine	0.6454241	3.308037	2.152625	0.1921502			CCC (20)	
N-Nitrosodiphenylamine	0.6060824	2.738114	9.712375	0.0476372			CCC (20)	
N-Nitroso-di-n-propylamine	0.9264115	3.847318	5.5585	8.229641E-02			CCC (20)	
Pentachlorophenol	0.1483397	7.142531	10.52857	3.303109E-02			CCC (20)	
Phenanthrene	1.036309	3.924071	10.68563	2.503092E-02			CCC (20)	
Phenol	1.847752	2.430352	4.569875	0.1188403			CCC (20)	
Phenol-d6	1.657278	3.092311	4.552625	9.935202E-02			CCC (20)	
Pyrene	1.419209	2.387319	12.3895	3.407473E-02			CCC (20)	
Pyridine	1.384519	8.014604	2.153875	0.2801215			CCC (20)	
Terphenyl-d14	0.7922755	2.429045	12.62238	2.535784E-02			CCC (20)	
1,2,4,5-Tetrachlorobenzene	0.3065383	4.049936	7.8175	0.0638879			CCC (20)	
2,3,4,6-Tetrachlorophenol	0.3342857	8.040752	9.335375	1.610042E-02			CCC (20)	
2,4,6-Tribromophenol	0.1150921	5.431977	9.8565	3.664511E-02			CCC (20)	
1,2,4-Trichlorobenzene	0.3215882	3.64138	6.581375	3.850313E-02			CCC (20)	
2,4,6-Trichlorophenol	0.4040255	6.82953	7.96475	4.460944E-02			CCC (20)	
2,4,5-Trichlorophenol	0.4126243	6.69412	8.009625	5.024523E-02			CCC (20)	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV1	Injection Time:	01:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzoic acid	A	50.00	51.76	0.2287324	0.2367745	0.01	3.5	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV2	Injection Time:	01:48

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	55.85	1.774174	1.981799	0.01	11.7	20
Atrazine	A	50.00	44.17	0.2021629	0.1785825	0.01	-11.7	20
Benzaldehyde	A	50.00	50.54	1.006348	1.017223	0.01	1.1	20
Benzidine	A	50.00	46.43	0.7586683	0.704443	0.01	-7.1	20
1,1-Biphenyl	A	50.00	50.27	1.416163	1.423736	0.01	0.5	20
Caprolactam	A	50.00	55.51	0.1025421	0.1138417	0.01	11.0	20
3,3'-Dichlorobenzidine	A	50.00	51.86	0.4083764	0.423608	0.01	3.7	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV3.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV3	Injection Time:	02:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	45.47	0.1483397	0.1349035	0.05	-9.1	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV4.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV4	Injection Time:	16:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	56.26	1.104581	1.242868	0.9	12.5	20
Acenaphthylene	A	50.00	53.51	1.84018	1.969492	0.9	7.0	20
Anthracene	A	50.00	51.66	1.041855	1.076543	0.7	3.3	20
Benzo(a)anthracene	A	50.00	53.28	1.194761	1.273035	0.8	6.6	20
Benzo(a)pyrene	A	50.00	50.96	1.056782	1.077075	0.7	1.9	20
Benzo(b)fluoranthene	A	50.00	56.17	1.160008	1.303179	0.7	12.3	20
Benzo(g,h,i)perylene	A	50.00	52.03	0.9556402	0.9945096	0.5	4.1	20
Benzo(k)fluoranthene	A	50.00	49.65	1.193894	1.185491	0.7	-0.7	20
4-Bromophenyl-phenylether	A	50.00	53.93	0.1876197	0.2023681	0.1	7.9	20
Butylbenzylphthalate	A	50.00	55.52	0.7023635	0.7798346	0.01	11.0	20
Carbazole	A	50.00	54.05	0.9972784	1.07804	0.01	8.1	20
4-Chloro-3-methylphenol	A	50.00	50.16	0.3117096	0.3126813	0.2	0.3	20
4-Chloroaniline	A	50.00	50.18	0.4447237	0.4463155	0.01	0.4	20
Bis(2-chloroethoxy)methane	A	50.00	49.29	0.4303265	0.4242085	0.3	-1.4	20
Bis(2-chloroethyl)ether	A	50.00	54.22	1.371713	1.487382	0.7	8.4	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.02	1.969533	2.049127	0.01	4.0	20
2-Chloronaphthalene	A	50.00	49.41	1.139168	1.125778	0.8	-1.2	20
2-Chlorophenol	A	50.00	54.73	1.420599	1.555036	0.8	9.5	20
4-Chlorophenyl phenyl ether	A	50.00	48.44	0.6478706	0.6277191	0.4	-3.1	20
Chrysene	A	50.00	52.44	1.116409	1.170883	0.7	4.9	20
Dibenz(a,h)anthracene	A	50.00	51.97	0.9571656	0.9948807	0.4	3.9	20
Dibenzofuran	A	50.00	50.55	1.590912	1.608445	0.8	1.1	20
Di-n-butylphthalate	A	50.00	52.37	1.345652	1.409351	0.01	4.7	20
2,4-Dichlorophenol	A	50.00	49.62	0.2770677	0.2749447	0.2	-0.8	20
Diethylphthalate	A	50.00	49.65	1.419629	1.409804	0.01	-0.7	20
2,4-Dimethylphenol	A	50.00	51.77	0.3753517	0.3886179	0.2	3.5	20
Dimethyl phthalate	A	50.00	47.66	1.345741	1.282834	0.01	-4.7	20
4,6-Dinitro-2-methylphenol	A	50.00	59.68	0.1631567	0.1947334	0.01	19.4	20
2,4-Dinitrophenol	A	50.00	53.63	0.2426865	0.2603236	0.05	7.3	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV4.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV4	Injection Time:	16:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrotoluene	A	50.00	49.47	0.4412515	0.4365715	0.2	-1.1	20
2,6-Dinitrotoluene	A	50.00	49.90	0.3341051	0.3334658	0.2	-0.2	20
Di-n-octylphthalate	L	50.00	49.69	1.625252	1.79607	0.01	-0.6	20
1,2-Diphenylhydrazine	A	50.00	51.48	0.8600535	0.8854269	0.01	3.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	55.61	0.906002	1.007676	0.01	11.2	20
Fluoranthene	A	50.00	52.06	1.121686	1.167857	0.6	4.1	20
Fluorene	A	50.00	49.61	1.291009	1.280906	0.9	-0.8	20
Hexachlorobenzene	A	50.00	53.41	0.2127339	0.2272269	0.1	6.8	20
Hexachlorobutadiene	A	50.00	55.24	0.1878684	0.20754	0.01	10.5	20
Hexachlorocyclopentadiene	A	50.00	53.25	0.3883047	0.4135571	0.05	6.5	20
Hexachloroethane	A	50.00	53.44	0.6620999	0.7077133	0.3	6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.10	1.128654	1.176076	0.5	4.2	20
Isophorone	A	50.00	48.65	0.6907435	0.6721568	0.4	-2.7	20
1-Methylnaphthalene	A	50.00	50.27	0.5245967	0.5274279	0.01	0.5	20
2-Methylnaphthalene	A	50.00	49.16	0.5500879	0.5408751	0.4	-1.7	20
2-Methylphenol	A	50.00	55.45	1.23516	1.369766	0.7	10.9	20
3-Methylphenol/4-Methylphenol	A	50.00	55.61	1.283491	1.427505		11.2	20
Naphthalene	A	50.00	54.34	1.045138	1.135827	0.7	8.7	20
4-Nitroaniline	A	50.00	51.07	0.3726718	0.3806114	0.01	2.1	20
3-Nitroaniline	A	50.00	51.03	0.3814709	0.3893424	0.01	2.1	20
2-Nitroaniline	A	50.00	54.43	0.3519549	0.3831608	0.01	8.9	20
Nitrobenzene	A	50.00	51.06	0.3806992	0.3887609	0.2	2.1	20
4-Nitrophenol	A	50.00	49.30	0.2753243	0.2714856	0.05	-1.4	20
2-Nitrophenol	A	50.00	52.35	0.2015288	0.2110155	0.1	4.7	20
N-Nitrosodiphenylamine	A	50.00	55.64	0.6060824	0.6744719	0.01	11.3	20
N-Nitroso-di-n-propylamine	A	50.00	54.68	0.9264115	1.013088	0.5	9.4	20
Phenanthrene	A	50.00	53.69	1.036309	1.112731	0.7	7.4	20
Phenol	A	50.00	53.92	1.847752	1.992622	0.8	7.8	20
Pyrene	A	50.00	50.17	1.419209	1.424044	0.6	0.3	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-ICV4.D	Calibration Date:	09/26/12 18:03
Sequence:	2I27213	Injection Date:	09/27/12
Lab Sample ID:	2I27213-ICV4	Injection Time:	16:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4,6-Trichlorophenol	A	50.00	51.67	0.4040255	0.4174811	0.2	3.3	20
2,4,5-Trichlorophenol	A	50.00	51.87	0.4126243	0.4280298	0.2	3.7	20
2-Fluorobiphenyl	A	50.00	51.35	1.304973	1.340167	0.01	2.7	20
2-Fluorophenol	A	100.0	117.2	1.364318	1.598604	0.01	17.2	20
Nitrobenzene-d5	A	50.00	51.52	0.3758829	0.3873319	0.01	3.0	20
Phenol-d6	A	100.0	105.7	1.657278	1.751346	0.01	5.7	20
Terphenyl-d14	A	50.00	58.81	0.7922755	0.9318163	0.01	17.6	20
2,4,6-Tribromophenol	A	100.0	109.6	0.1150921	0.1261684	0.01	9.6	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05310	Injection Date:	02/21/13
Lab Sample ID:	3B05310-CCV1	Injection Time:	12:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	53.52	1.104581	1.182413	0.9	7.0	20	
Acenaphthylene	A	50.00	52.67	1.84018	1.938374	0.9	5.3	20	
Anthracene	A	50.00	55.19	1.041855	1.150065	0.7	10.4	20	
Benzo(a)anthracene	A	50.00	54.43	1.194761	1.300624	0.8	8.9	20	
Benzo(a)pyrene	A	50.00	54.90	1.056782	1.160313	0.7	9.8	20	
Benzo(b)fluoranthene	A	50.00	55.00	1.160008	1.276059	0.7	10.0	20	
Benzo(g,h,i)perylene	A	50.00	53.39	0.9556402	1.020422	0.5	6.8	20	
Benzoic acid	A	50.00	38.42	0.2287324	0.1757362	0.01	-23.2	20	*
Benzo(k)fluoranthene	A	50.00	54.18	1.193894	1.293667	0.7	8.4	20	
4-Bromophenyl-phenylether	A	50.00	54.30	0.1876197	0.2037633	0.1	8.6	20	
Butylbenzylphthalate	A	50.00	60.84	0.7023635	0.8546023	0.01	21.7	20	*
Carbazole	A	50.00	55.83	0.9972784	1.113588	0.01	11.7	20	
4-Chloro-3-methylphenol	A	50.00	57.51	0.3117096	0.3585295	0.2	15.0	20	
4-Chloroaniline	A	50.00	55.94	0.4447237	0.4975188	0.01	11.9	20	
Bis(2-chloroethoxy)methane	A	50.00	51.14	0.4303265	0.4401241	0.3	2.3	20	
Bis(2-chloroethyl)ether	A	50.00	52.70	1.371713	1.445899	0.7	5.4	20	
2,2'-Oxybis-1-chloropropane	A	50.00	55.00	1.969533	2.166638	0.01	10.0	20	
2-Chloronaphthalene	A	50.00	53.75	1.139168	1.224653	0.8	7.5	20	
2-Chlorophenol	A	50.00	57.29	1.420599	1.627751	0.8	14.6	20	
4-Chlorophenyl phenyl ether	A	50.00	51.85	0.6478706	0.6718263	0.4	3.7	20	
Chrysene	A	50.00	56.60	1.116409	1.263672	0.7	13.2	20	
Dibenz(a,h)anthracene	A	50.00	55.14	0.9571656	1.055597	0.4	10.3	20	
Dibenzofuran	A	50.00	55.76	1.590912	1.774309	0.8	11.5	20	
Di-n-butylphthalate	A	50.00	59.13	1.345652	1.591429	0.01	18.3	20	
2,4-Dichlorophenol	A	50.00	53.84	0.2770677	0.2983532	0.2	7.7	20	
Diethylphthalate	A	50.00	55.08	1.419629	1.563849	0.01	10.2	20	
2,4-Dimethylphenol	A	50.00	59.63	0.3753517	0.4476663	0.2	19.3	20	
Dimethyl phthalate	A	50.00	55.88	1.345741	1.503983	0.01	11.8	20	
4,6-Dinitro-2-methylphenol	A	50.00	49.67	0.1631567	0.1620757	0.01	-0.7	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05310	Injection Date:	02/21/13
Lab Sample ID:	3B05310-CCV1	Injection Time:	12:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	A	50.00	48.71	0.2426865	0.2364441	0.05	-2.6	20	
2,4-Dinitrotoluene	A	50.00	53.38	0.4412515	0.4710766	0.2	6.8	20	
2,6-Dinitrotoluene	A	50.00	55.41	0.3341051	0.3702883	0.2	10.8	20	
Di-n-octylphthalate	L	50.00	55.17	1.625252	2.008736	0.01	10.3	20	
1,2-Diphenylhydrazine	A	50.00	58.97	0.8600535	1.014403	0.01	17.9	20	
Bis(2-ethylhexyl)phthalate	A	50.00	60.76	0.906002	1.101055	0.01	21.5	20	*
Fluoranthene	A	50.00	54.92	1.121686	1.232029	0.6	9.8	20	
Fluorene	A	50.00	52.49	1.291009	1.355311	0.9	5.0	20	
Hexachlorobenzene	A	50.00	53.09	0.2127339	0.2258945	0.1	6.2	20	
Hexachlorobutadiene	A	50.00	54.60	0.1878684	0.2051664	0.01	9.2	20	
Hexachlorocyclopentadiene	A	50.00	56.28	0.3883047	0.4371127	0.05	12.6	20	
Hexachloroethane	A	50.00	58.37	0.6620999	0.7729352	0.3	16.7	20	
Indeno(1,2,3-cd)pyrene	A	50.00	54.69	1.128654	1.234547	0.5	9.4	20	
Isophorone	A	50.00	55.31	0.6907435	0.7641514	0.4	10.6	20	
1-Methylnaphthalene	A	50.00	54.45	0.5245967	0.5713183	0.01	8.9	20	
2-Methylnaphthalene	A	50.00	56.59	0.5500879	0.6226245	0.4	13.2	20	
2-Methylphenol	A	50.00	55.27	1.23516	1.365386	0.7	10.5	20	
3-Methylphenol/4-Methylphenol	A	50.00	53.06	1.283491	1.362102		6.1	20	
Naphthalene	A	50.00	55.40	1.045138	1.157921	0.7	10.8	20	
4-Nitroaniline	A	50.00	49.01	0.3726718	0.3652636	0.01	-2.0	20	
3-Nitroaniline	A	50.00	57.00	0.3814709	0.4348622	0.01	14.0	20	
2-Nitroaniline	A	50.00	60.42	0.3519549	0.4253153	0.01	20.8	20	*
Nitrobenzene	A	50.00	56.74	0.3806992	0.432036	0.2	13.5	20	
4-Nitrophenol	A	50.00	46.25	0.2753243	0.2546821	0.05	-7.5	20	
2-Nitrophenol	A	50.00	56.30	0.2015288	0.2269121	0.1	12.6	20	
N-Nitrosodiphenylamine	A	50.00	58.88	0.6060824	0.7137472	0.01	17.8	20	
N-Nitroso-di-n-propylamine	A	50.00	60.20	0.9264115	1.115492	0.5	20.4	20	*
Pentachlorophenol	A	50.00	47.93	0.1483397	0.1422013	0.05	-4.1	20	
Phenanthrene	A	50.00	53.86	1.036309	1.116362	0.7	7.7	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05310	Injection Date:	02/21/13
Lab Sample ID:	3B05310-CCV1	Injection Time:	12:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	49.12	1.847752	1.815438	0.8	-1.7	20
Pyrene	A	50.00	54.32	1.419209	1.541771	0.6	8.6	20
2,4,6-Trichlorophenol	A	50.00	52.96	0.4040255	0.427966	0.2	5.9	20
2,4,5-Trichlorophenol	A	50.00	54.81	0.4126243	0.4523285	0.2	9.6	20
2-Fluorobiphenyl	A	50.00	50.08	1.304973	1.30709	0.01	0.2	20
2-Fluorophenol	A	100.0	98.07	1.364318	1.337971	0.01	-1.9	20
Nitrobenzene-d5	A	50.00	52.81	0.3758829	0.3970152	0.01	5.6	20
Phenol-d6	A	100.0	100.5	1.657278	1.665907	0.01	0.5	20
Terphenyl-d14	A	50.00	58.28	0.7922755	0.923464	0.01	16.6	20
2,4,6-Tribromophenol	A	100.0	98.76	0.1150921	0.1136645	0.01	-1.2	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05310	Injection Date:	02/21/13
Lab Sample ID:	3B05310-CCV2	Injection Time:	12:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	54.55	1.774174	1.93564	0.01	9.1	20
Atrazine	A	50.00	55.38	0.2021629	0.2239213	0.01	10.8	20
Benzaldehyde	A	50.00	56.26	1.006348	1.13228	0.01	12.5	20
Benzidine	A	50.00	56.73	0.7586683	0.8607859	0.01	13.5	20
1,1-Biphenyl	A	50.00	48.84	1.416163	1.383247	0.01	-2.3	20
Caprolactam	A	50.00	50.72	0.1025421	0.104022	0.01	1.4	20
3,3'-Dichlorobenzidine	A	50.00	51.66	0.4083764	0.4219404	0.01	3.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05809	Injection Date:	02/26/13
Lab Sample ID:	3B05809-CCV1	Injection Time:	15:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	52.41	1.104581	1.157921	0.9	4.8	20	
Acenaphthylene	A	50.00	53.40	1.84018	1.965265	0.9	6.8	20	
Anthracene	A	50.00	54.88	1.041855	1.143512	0.7	9.8	20	
Benzo(a)anthracene	A	50.00	54.77	1.194761	1.308664	0.8	9.5	20	
Benzo(a)pyrene	A	50.00	54.07	1.056782	1.14289	0.7	8.1	20	
Benzo(b)fluoranthene	A	50.00	54.86	1.160008	1.272847	0.7	9.7	20	
Benzo(g,h,i)perylene	A	50.00	54.23	0.9556402	1.036505	0.5	8.5	20	
Benzoic acid	A	50.00	52.78	0.2287324	0.2414651	0.01	5.6	20	
Benzo(k)fluoranthene	A	50.00	54.61	1.193894	1.304033	0.7	9.2	20	
4-Bromophenyl-phenylether	A	50.00	54.54	0.1876197	0.2046664	0.1	9.1	20	
Butylbenzylphthalate	A	50.00	63.18	0.7023635	0.8875405	0.01	26.4	20	*
Carbazole	A	50.00	55.91	0.9972784	1.115117	0.01	11.8	20	
4-Chloro-3-methylphenol	A	50.00	59.10	0.3117096	0.3684243	0.2	18.2	20	
4-Chloroaniline	A	50.00	54.60	0.4447237	0.4856872	0.01	9.2	20	
Bis(2-chloroethoxy)methane	A	50.00	51.47	0.4303265	0.4429826	0.3	2.9	20	
Bis(2-chloroethyl)ether	A	50.00	55.74	1.371713	1.529239	0.7	11.5	20	
2,2'-Oxybis-1-chloropropane	A	50.00	58.35	1.969533	2.298496	0.01	16.7	20	
2-Chloronaphthalene	A	50.00	53.26	1.139168	1.213492	0.8	6.5	20	
2-Chlorophenol	A	50.00	59.89	1.420599	1.701534	0.8	19.8	20	
4-Chlorophenyl phenyl ether	A	50.00	54.18	0.6478706	0.7019919	0.4	8.4	20	
Chrysene	A	50.00	53.04	1.116409	1.184186	0.7	6.1	20	
Dibenz(a,h)anthracene	A	50.00	55.72	0.9571656	1.066735	0.4	11.4	20	
Dibenzofuran	A	50.00	53.60	1.590912	1.705461	0.8	7.2	20	
Di-n-butylphthalate	A	50.00	61.55	1.345652	1.656464	0.01	23.1	20	*
2,4-Dichlorophenol	A	50.00	53.95	0.2770677	0.2989431	0.2	7.9	20	
Diethylphthalate	A	50.00	55.97	1.419629	1.589126	0.01	11.9	20	
2,4-Dimethylphenol	A	50.00	56.76	0.3753517	0.4260853	0.2	13.5	20	
Dimethyl phthalate	A	50.00	54.34	1.345741	1.462663	0.01	8.7	20	
4,6-Dinitro-2-methylphenol	A	50.00	58.28	0.1631567	0.1901891	0.01	16.6	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05809	Injection Date:	02/26/13
Lab Sample ID:	3B05809-CCV1	Injection Time:	15:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	A	50.00	47.00	0.2426865	0.2281161	0.05	-6.0	20	
2,4-Dinitrotoluene	A	50.00	54.53	0.4412515	0.4812183	0.2	9.1	20	
2,6-Dinitrotoluene	A	50.00	53.22	0.3341051	0.3556251	0.2	6.4	20	
Di-n-octylphthalate	L	50.00	59.39	1.625252	2.172057	0.01	18.8	20	
1,2-Diphenylhydrazine	A	50.00	63.63	0.8600535	1.094572	0.01	27.3	20	*
Bis(2-ethylhexyl)phthalate	A	50.00	63.03	0.906002	1.1421	0.01	26.1	20	*
Fluoranthene	A	50.00	57.98	1.121686	1.300747	0.6	16.0	20	
Fluorene	A	50.00	53.26	1.291009	1.375099	0.9	6.5	20	
Hexachlorobenzene	A	50.00	52.32	0.2127339	0.2226278	0.1	4.7	20	
Hexachlorobutadiene	A	50.00	58.27	0.1878684	0.2189285	0.01	16.5	20	
Hexachlorocyclopentadiene	A	50.00	52.83	0.3883047	0.4102616	0.05	5.7	20	
Hexachloroethane	A	50.00	63.45	0.6620999	0.8401799	0.3	26.9	20	*
Indeno(1,2,3-cd)pyrene	A	50.00	55.38	1.128654	1.25018	0.5	10.8	20	
Isophorone	A	50.00	55.90	0.6907435	0.7722094	0.4	11.8	20	
1-Methylnaphthalene	A	50.00	52.92	0.5245967	0.5551933	0.01	5.8	20	
2-Methylnaphthalene	A	50.00	55.86	0.5500879	0.6145604	0.4	11.7	20	
2-Methylphenol	A	50.00	58.92	1.23516	1.455606	0.7	17.8	20	
3-Methylphenol/4-Methylphenol	A	50.00	57.52	1.283491	1.476448		15.0	20	
Naphthalene	A	50.00	53.40	1.045138	1.116322	0.7	6.8	20	
4-Nitroaniline	A	50.00	50.79	0.3726718	0.3785743	0.01	1.6	20	
3-Nitroaniline	A	50.00	54.54	0.3814709	0.4160904	0.01	9.1	20	
2-Nitroaniline	A	50.00	63.77	0.3519549	0.4488732	0.01	27.5	20	*
Nitrobenzene	A	50.00	57.46	0.3806992	0.4374984	0.2	14.9	20	
4-Nitrophenol	A	50.00	52.95	0.2753243	0.2915794	0.05	5.9	20	
2-Nitrophenol	A	50.00	56.51	0.2015288	0.227763	0.1	13.0	20	
N-Nitrosodiphenylamine	A	50.00	56.00	0.6060824	0.6788229	0.01	12.0	20	
N-Nitroso-di-n-propylamine	A	50.00	64.87	0.9264115	1.201855	0.5	29.7	20	*
Pentachlorophenol	A	50.00	49.91	0.1483397	0.1480649	0.05	-0.2	20	
Phenanthrene	A	50.00	55.40	1.036309	1.148194	0.7	10.8	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05809	Injection Date:	02/26/13
Lab Sample ID:	3B05809-CCV1	Injection Time:	15:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	50.91	1.847752	1.881263	0.8	1.8	20
Pyrene	A	50.00	56.17	1.419209	1.594295	0.6	12.3	20
2,4,6-Trichlorophenol	A	50.00	52.33	0.4040255	0.4228623	0.2	4.7	20
2,4,5-Trichlorophenol	A	50.00	53.35	0.4126243	0.4402427	0.2	6.7	20
2-Fluorobiphenyl	A	50.00	46.59	1.304973	1.215961	0.01	-6.8	20
2-Fluorophenol	A	100.0	103.6	1.364318	1.414022	0.01	3.6	20
Nitrobenzene-d5	A	50.00	52.74	0.3758829	0.3964742	0.01	5.5	20
Phenol-d6	A	100.0	103.8	1.657278	1.720613	0.01	3.8	20
Terphenyl-d14	A	50.00	56.57	0.7922755	0.8963406	0.01	13.1	20
2,4,6-Tribromophenol	A	100.0	105.3	0.1150921	0.121175	0.01	5.3	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_079
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	2272005
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/26/12 18:03
Sequence:	3B05809	Injection Date:	02/26/13
Lab Sample ID:	3B05809-CCV2	Injection Time:	15:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	61.21	1.774174	2.171861	0.01	22.4	20 *
Atrazine	A	50.00	54.78	0.2021629	0.221476	0.01	9.6	20
Benzaldehyde	A	50.00	58.50	1.006348	1.17748	0.01	17.0	20
Benzidine	A	50.00	51.97	0.7586683	0.788617	0.01	3.9	20
1,1-Biphenyl	A	50.00	51.74	1.416163	1.465492	0.01	3.5	20
Caprolactam	A	50.00	55.38	0.1025421	0.1135832	0.01	10.8	20
3,3'-Dichlorobenzidine	A	50.00	51.36	0.4083764	0.4195065	0.01	2.7	20

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_079

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
GW1007	02/11/13 15:04	02/13/13 08:30	02/15/13 11:13	3.80	7.00	02/21/13 18:40	6.31	40.00	
GW1008	02/11/13 14:02	02/13/13 08:30	02/15/13 11:13	3.84	7.00	02/21/13 19:07	6.33	40.00	
GW1009	02/11/13 11:31	02/13/13 08:30	02/15/13 11:13	3.95	7.00	02/21/13 19:34	6.35	40.00	
GW1010	02/11/13 12:32	02/13/13 08:30	02/15/13 11:13	3.90	7.00	02/21/13 20:01	6.37	40.00	
GW1011	02/11/13 10:18	02/13/13 08:30	02/15/13 11:13	4.00	7.00	02/21/13 20:28	6.39	40.00	
GW1012	02/11/13 10:18	02/13/13 08:30	02/15/13 11:13	4.00	7.00	02/21/13 20:55	6.40	40.00	
GW1013	02/13/13 11:51	02/15/13 08:30	02/20/13 15:15	7.10	7.00	02/26/13 18:14	6.12	40.00	
GW1014	02/13/13 14:12	02/15/13 08:30	02/20/13 15:15	7.00	7.00	02/26/13 18:41	6.14	40.00	
GW1015	02/13/13 10:32	02/15/13 08:30	02/20/13 15:15	7.15	7.00	02/26/13 19:08	6.16	40.00	
GW1016	02/13/13 14:32	02/15/13 08:30	02/20/13 15:15	6.99	7.00	02/26/13 19:35	6.18	40.00	

PREPARATION BENCH SHEET

3B15007

Empirical Laboratories, LLC **Printed: 2/28/2013 11:47:22AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 13B0028**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1302074-01	F	SMS_BNA_8270D_3510_REG	02/15/2013	100	10				500	NA	Added for BatchQC in: 3B15007
1302074-01	F	SMS_PAH_8270D_LOW	02/15/2013	100	10				500	NA	Added for BatchQC in: 3B15007
1302074-01	F	SMS_TCLP_8270D	02/15/2013	100	10				500	NA	20x for matrix spikes diluted out.
1302074-01	F	SMS_BNA_625	02/15/2013	100	10				500	NA	Added for BatchQC in: 3B15007
1302074-01RE1	F	SMS_TCLP_8270D	02/15/2013	100	10				500	NA	RR @ 5x
1302076-02	N	SMS_PAH_8270D_LOW	02/15/2013	1060	1				500	NA	MS/MSD, select version
1302076-02	N	SMS_TCLP_8270D	02/15/2013	1060	1				500	NA	Added for BatchQC in: 3B15007
1302076-02	N	SMS_BNA_8270D_3510_REG	02/15/2013	1060	1				500	NA	MS/MSD
1302076-02	N	SMS_BNA_625	02/15/2013	1060	1				500	NA	Added for BatchQC in: 3B15007
1302076-03	F	SMS_PAH_8270D_LOW	02/15/2013	1060	1				500	NA	select version
1302076-03	F	SMS_BNA_8270D_3510_REG	02/15/2013	1060	1				500	NA	
1302087-01	O	SMS_BNA_8270D_3510_REG	02/15/2013	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene..... leaking sep funnel
1302087-03	O	SMS_BNA_8270D_3510_REG	02/15/2013	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302087-05	M	SMS_BNA_8270D_3510_REG	02/15/2013	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302087-07	O	SMS_BNA_8270D_3510_REG	02/15/2013	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302087-09	O	SMS_BNA_8270D_3510_REG	02/15/2013	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302087-11	O	SMS_BNA_8270D_3510_REG	02/15/2013	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302095-01	B	SMS_BNA_625	02/15/2013	1080	1				500	NA	heavy emulsion
1302095-02	B	SMS_BNA_625	02/15/2013	1060	1				500	NA	emulsion
1302095-03	B	SMS_BNA_625	02/15/2013	1080	1				500	NA	heavy emulsion
1302095-04	B	SMS_BNA_625	02/15/2013	1060	1				500	NA	emulsion
1302095-05	B	SMS_BNA_625	02/15/2013	1060	1				500	NA	emulsion

PREPARATION BENCH SHEET

3B15007

Empirical Laboratories, LLC **Printed: 2/28/2013 11:47:22AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 13B0028**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1302095-06	B	SMS_BNA_625	02/15/2013	1080	1				500	NA	emulsion
3B15007-BLK1		QC	02/15/2013	1000	1				500	NA	
3B15007-BLK2		QC	02/15/2013	1000	1				500	NA	Added 2/28/2013 by MEC
3B15007-BS1		QC	02/15/2013	1000	1	13B0358		500	500	NA	
3B15007-BS2		QC	02/15/2013	1000	1	13B0074		1000	500	NA	
3B15007-MS1		QC	02/15/2013	1000	1	13B0358	1302076-02	500	500	NA	
3B15007-MS2		QC	02/15/2013	100	10	13B0358	1302074-01	500	500	NA	
3B15007-MS3		QC	02/15/2013	1000	1	13B0358	1302076-02	500	500	NA	Added 2/28/2013 by MEC
3B15007-MSD1		QC	02/15/2013	1000	1	13B0358	1302076-02	500	500	NA	
3B15007-MSD2		QC	02/15/2013	100	10	13B0358	1302074-01	500	500	NA	
3B15007-MSD3		QC	02/15/2013	1000	1	13B0358	1302076-02	500	500	NA	Added 2/28/2013 by MEC

Reagents Used:

Standard	Description
12K0677	1:1 H2SO4/DIH2O
13A0235	Sodium Sulfate Anhydrous
13B0024	10N NaOH for Extractions
13B0134	Methylene Chloride

PREPARATION BENCH SHEET

3B20017

Empirical Laboratories, LLC **Printed: 3/5/2013 10:02:42AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 13B0028**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1302100-01	G	SMS_PAH_8270D_LOW	02/20/2013	1080	1				500	NA	
1302101-01	M	SMS_BNA_8270D_3510_REG	02/20/2013	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302101-03	M	SMS_BNA_8270D_3510_REG	02/20/2013	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302101-05	M	SMS_BNA_8270D_3510_REG	02/20/2013	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302101-07	M	SMS_BNA_8270D_3510_REG	02/20/2013	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1302118-01	A	SMS_BNA_8270D_3510_REG	02/20/2013	500	0.5				250	NA	plus TICs/ LIMITED VOLUME
1302140-01	E	SMS_BNA_8270D_3510_REG	02/20/2013	1060	1				500	NA	select version
1302140-01	E	SMS_PAH_8270D_LOW	02/20/2013	1060	1				500	NA	select version
1302140-02	E	SMS_BNA_8270D_3510_REG	02/20/2013	1080	1				500	NA	select version
1302140-02	E	SMS_PAH_8270D_LOW	02/20/2013	1080	1				500	NA	select version
1302140-03	E	SMS_PAH_8270D_LOW	02/20/2013	1040	1				500	NA	select version
1302140-03	E	SMS_BNA_8270D_3510_REG	02/20/2013	1040	1				500	NA	select version
1302140-04	E	SMS_BNA_8270D_3510_REG	02/20/2013	1020	1				500	NA	select version
1302140-04	E	SMS_PAH_8270D_LOW	02/20/2013	1020	1				500	NA	select version
1302140-05	E	SMS_BNA_8270D_3510_REG	02/20/2013	1040	1				500	NA	select version
1302140-05	E	SMS_PAH_8270D_LOW	02/20/2013	1040	1				500	NA	select version
1302140-06	E	SMS_PAH_8270D_LOW	02/20/2013	1080	1				500	NA	select version
1302140-06	E	SMS_BNA_8270D_3510_REG	02/20/2013	1080	1				500	NA	select version
1302140-07	E	SMS_BNA_8270D_3510_REG	02/20/2013	1060	1				500	NA	select version
1302140-07	E	SMS_PAH_8270D_LOW	02/20/2013	1060	1				500	NA	select version
1302140-08	E	SMS_BNA_8270D_3510_REG	02/20/2013	1000	1				500	NA	select version
1302140-08	E	SMS_PAH_8270D_LOW	02/20/2013	1000	1				500	NA	select version

PREPARATION BENCH SHEET

3B20017

Empirical Laboratories, LLC **Printed: 3/5/2013 10:02:42AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 13B0028**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1302140-09	E	SMS_BNA_8270D_3510_REG	02/20/2013	1020	1				500	NA	select version
1302140-09	E	SMS_PAH_8270D_LOW	02/20/2013	1020	1				500	NA	select version
1302140-10	E	SMS_BNA_8270D_3510_REG	02/20/2013	1020	1				500	NA	select version
1302140-10	E	SMS_PAH_8270D_LOW	02/20/2013	1020	1				500	NA	select version
1302140-11	N	SMS_BNA_8270D_3510_REG	02/20/2013	1040	1				500	NA	MS/MSD.
1302140-11	N	SMS_PAH_8270D_LOW	02/20/2013	1040	1				500	NA	MS/MSD.
1302140-12	F	SMS_PAH_8270D_LOW	02/20/2013	1060	1				500	NA	select version
1302140-12	F	SMS_BNA_8270D_3510_REG	02/20/2013	1060	1				500	NA	select version
1302141-01	F	SMS_BNA_8270D_3510_REG	02/20/2013	1060	1				500	NA	
1302142-01	B	SMS_BNA_8270D_3510_REG	02/20/2013	1080	1				500	NA	
3B20017-BLK1		QC	02/20/2013	1000	1				500	NA	
3B20017-BS1		QC	02/20/2013	1000	1	13B0358		500	500	NA	
3B20017-BS2		QC	02/20/2013	1000	1	13B0074		1000	500	NA	
3B20017-MS1		QC	02/20/2013	1080	1	13B0358	1302140-11	500	500	NA	
3B20017-MSD1		QC	02/20/2013	1080	1	13B0358	1302140-11	500	500	NA	

Reagents Used:

Standard	Description
12K0677	1:1 H2SO4/DIH2O
13A0235	Sodium Sulfate Anhydrous
13B0024	10N NaOH for Extractions
13B0134	Methylene Chloride

PREPARATION BENCH SHEET

3B20017

Empirical Laboratories, LLC **Printed: 3/5/2013 10:02:42AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 13B0028**

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