

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for July 2014

This report submitted to Arkansas Department of Environmental Quality in compliance with Permit Number AR0022063 AFIN: 72-00003

Date	Time	Duration	Address	Est. Vol.	Cause of overflow	Remedial Action	Environmental Impact	Discharge Location
07/26/2014	12:00 am – 1:40 pm	13 hrs. 40 min.	2910 Silent Grove Rd. Springdale, AR	13,000 gal	Line Failure/Break	Spread Lime on Affected Area.	None	Sewer line into ditch - soaked into ground.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that all qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature Thatt C. Wood

Date 8-14-2014



Springdale Water Utilities

526 Oak Avenue P.O. Box 769 Springdale, Arkansas 72765-0769 (479) 751-5751

Enforcement Branch
Arkansas Dept. of Environmental Quality
5301 Northshore Dr.
North Little Rock, AR 72118-5317

**RE: NPDES Permit No. AR0022063
AFIN #72-00003
Springdale, AR**

August 14, 2014

Dear Sir or Madame:

Enclosed please find the results of third quarter Ceriodaphnia dubia and Pimephales promelas analyses, and third quarter Table II and Table III analyses conducted on Springdale Water Utilities' wastewater treatment facility influent, effluent, and sludge (belt press influent) for 2014. These analyses are required by our NPDES Permit.

Please feel free to call Ms. Jennifer Enos at (479)756-3657 if you have any questions concerning these analyses.

Sincerely yours,

Heath Ward
Executive Director

JEE/jee

Enclosures

Cc: Jennifer Enos, SWU
Mary Barnett, ADEQ
File

**CITY OF SPRINGDALE WWTF
 NPDES PERMIT NO. AR0022063
 AFIN NO. 72-00003
 BIOMONITORING REPORTING
 TEST DATE: 07/22/14**

I. *Ceriodaphnia dubia*

	Response
(A) If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP3B.	0
(B) Report the NOEC value for survival, Parameter No. TOP3B.	97%
(C) Report the NOEC value for reproduction, Parameter No. TPP3B.	97%
(D) If the NOEC for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TGP3B.	0
(E) Report the higher (critical dilution or control) Coefficient of Variation, Parameter No. TQP3B.	5.93%

II. *Pimephales promelas* (fathead minnow)

	Response
(A) If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP6C.	0
(B) Report the NOEC value for survival, Parameter No. TOP6C.	97%
(C) Report the NOEC value for growth, Parameter No. TPP6C.	97%
(D) If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TGP6C.	0
(E) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C.	8.25%
22415 Retest Number 1	Leave Blank
22416 Retest Number 2	Leave Blank



Springdale Water Utilities
ATTN: Mr. Brad Stewart
Post Office Box 769
Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on July 29, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Springdale Water Utilities
ATTN: Mr. Brad Stewart
bstewart@springdalewater.com



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SAMPLE INFORMATION

Project Description:

Six (6) water and one (1) sludge sample(s) received on July 29, 2014
Table II, Table III
P.O. No. 001813900

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
181068-1	Effluent 07/24/14 0000, 0600, 1200, 1800	24-Jul-2014 1800	
181068-2	Effluent 07/24/14 0000, 2400	24-Jul-2014 2359	
181068-3	Belt Press Influent 07/25/14 0730	25-Jul-2014 0730	
181068-4	Effluent 07/24/14 0000, 0600, 1200, 1800	24-Jul-2014 1800	

Qualifiers:

- D Result is from a secondary dilution factor
- R n-Nitrosodiphenylamine cannot be separated from diphenylamine
- W Result is presented on a Wet Weight Basis

Case Narrative:

Equivalent composite of (4) samples was prepared for Control No. 181068-1.

Analysis of soils/sludges are reported on a dry-weight basis unless specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", (SM).
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 181068-1

Sample Identification: Effluent 07/24/14 0000, 0600, 1200, 1800

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624				
Acrolein EPA 624	< 50	50	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Acrylonitrile EPA 624	< 20	20	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Benzene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Bromoform EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Carbon tetrachloride EPA 624	< 2.0	2.0	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Chlorobenzene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Chlorodibromomethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Chloroethane EPA 624	< 50	50	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
2-Chloroethyl vinyl ether EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Chloroform EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,2-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,3-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,4-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Dichlorobromomethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,1-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,2-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,1-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
trans-1,2-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,2-Dichloropropane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,3-Dichloropropylene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	



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ANALYTICAL RESULTS

AIC No. 181068-1 (Continued)

Sample Identification: Effluent 07/24/14 0000, 0600, 1200, 1800

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Ethylbenzene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Methyl bromide(Bromomethane) EPA 624	< 50	50	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Methyl chloride(Chloromethane) EPA 624	< 50	50	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Methylene chloride EPA 624	< 20	20	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,1,2,2-Tetrachloroethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Tetrachloroethylene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Toluene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,1,1-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
1,1,2-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Trichloroethylene EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Vinyl chloride EPA 624	< 10	10	ug/l	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 624	95.6		%	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Surrogate: Dibromofluoromethane (85.0-115%) EPA 624	94.4		%	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	
Surrogate: Toluene-D8 (85.0-120%) EPA 624	99.5		%	
Prep: 31-Jul-2014 1106 by 301	Analyzed: 31-Jul-2014 1611 by 301		Batch: V8567	

AIC No. 181068-2

Sample Identification: Effluent 07/24/14 0000, 2400

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 0.03	0.03	mg/l	
Prep: 31-Jul-2014 1212 by 311	Analyzed: 01-Aug-2014 1859 by 302		Batch: S37157	
Total Recoverable Arsenic EPA 200.8	< 0.001	0.001	mg/l	
Prep: 31-Jul-2014 1212 by 311	Analyzed: 01-Aug-2014 1551 by 302		Batch: S37157	
Total Recoverable Beryllium EPA 200.8	< 0.0003	0.0003	mg/l	
Prep: 31-Jul-2014 1212 by 311	Analyzed: 01-Aug-2014 1859 by 302		Batch: S37157	
Total Recoverable Cadmium EPA 200.8	< 0.0001	0.0001	mg/l	
Prep: 31-Jul-2014 1212 by 311	Analyzed: 01-Aug-2014 1551 by 302		Batch: S37157	

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ANALYTICAL RESULTS

AIC No. 181068-2 (Continued)

Sample Identification: Effluent 07/24/14 0000, 2400

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Recoverable Chromium EPA 200.8 Prep: 31-Jul-2014 1212 by 311	< 0.007 Analyzed: 01-Aug-2014 1551 by 302	0.007	mg/l Batch: S37157	
Total Recoverable Copper EPA 200.8 Prep: 31-Jul-2014 1212 by 311	0.0034 Analyzed: 01-Aug-2014 1551 by 302	0.001	mg/l Batch: S37157	
Total Recoverable Lead EPA 200.8 Prep: 31-Jul-2014 1212 by 311	< 0.001 Analyzed: 01-Aug-2014 1551 by 302	0.001	mg/l Batch: S37157	
Total Recoverable Molybdenum EPA 200.8 Prep: 31-Jul-2014 1212 by 311	0.012 Analyzed: 01-Aug-2014 1551 by 302	0.008	mg/l Batch: S37157	
Total Recoverable Nickel EPA 200.8 Prep: 31-Jul-2014 1212 by 311	0.0047 Analyzed: 01-Aug-2014 1551 by 302	0.001	mg/l Batch: S37157	
Total Recoverable Selenium EPA 200.8 Prep: 31-Jul-2014 1212 by 311	< 0.002 Analyzed: 01-Aug-2014 1551 by 302	0.002	mg/l Batch: S37157	
Total Recoverable Silver EPA 200.8 Prep: 31-Jul-2014 1212 by 311	< 0.0002 Analyzed: 01-Aug-2014 1551 by 302	0.0002	mg/l Batch: S37157	
Total Recoverable Thallium EPA 200.8 Prep: 31-Jul-2014 1212 by 311	< 0.001 Analyzed: 01-Aug-2014 1551 by 302	0.001	mg/l Batch: S37157	
Total Recoverable Zinc EPA 200.8 Prep: 31-Jul-2014 1212 by 311	0.037 Analyzed: 01-Aug-2014 1551 by 302	0.002	mg/l Batch: S37157	
Base/Neutral and Acid Compounds By EPA 625				
Acenaphthene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 10 Analyzed: 31-Jul-2014 1343 by 301	10	ug/l Batch: B9091	
Acenaphthylene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 10 Analyzed: 31-Jul-2014 1343 by 301	10	ug/l Batch: B9091	
Anthracene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 10 Analyzed: 31-Jul-2014 1343 by 301	10	ug/l Batch: B9091	
Benzidine EPA 625 Prep: 30-Jul-2014 1450 by 301	< 50 Analyzed: 31-Jul-2014 1343 by 301	50	ug/l Batch: B9091	
Benzo(a)anthracene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 5.0 Analyzed: 31-Jul-2014 1343 by 301	5.0	ug/l Batch: B9091	
Benzo(a)pyrene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 5.0 Analyzed: 31-Jul-2014 1343 by 301	5.0	ug/l Batch: B9091	
Benzo(g,h,i)perylene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 20 Analyzed: 31-Jul-2014 1343 by 301	20	ug/l Batch: B9091	
Benzo(k)fluoranthene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 5.0 Analyzed: 31-Jul-2014 1343 by 301	5.0	ug/l Batch: B9091	
3,4-Benzofluoranthene EPA 625 Prep: 30-Jul-2014 1450 by 301	< 10 Analyzed: 31-Jul-2014 1343 by 301	10	ug/l Batch: B9091	
Bis(2-chloroethoxy)methane EPA 625 Prep: 30-Jul-2014 1450 by 301	< 10 Analyzed: 31-Jul-2014 1343 by 301	10	ug/l Batch: B9091	
Bis(2-chloroethyl)ether EPA 625 Prep: 30-Jul-2014 1450 by 301	< 10 Analyzed: 31-Jul-2014 1343 by 301	10	ug/l Batch: B9091	

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 Springdale, AR 72762

ANALYTICAL RESULTS

AIC No. 181068-2 (Continued)

Sample Identification: Effluent 07/24/14 0000, 2400

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Bis(2-chloroisopropyl)ether EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Bis(2-ethylhexyl)phthalate EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
4-Bromophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Butylbenzyl phthalate EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2-Chloronaphthalene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2-Chlorophenol EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
4-Chlorophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Chrysene EPA 625	< 5.0	5.0	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Di-n-butyl phthalate EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Di-n-octyl phthalate EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Dibenz(a,h)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
3,3'-Dichlorobenzidine EPA 625	< 5.0	5.0	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2,4-Dichlorophenol EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Diethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Dimethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2,4-Dimethylphenol EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
4,6-Dinitro-o-cresol EPA 625	< 50	50	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2,4-Dinitrophenol EPA 625	< 50	50	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2,4-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2,6-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	



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ANALYTICAL RESULTS

AIC No. 181068-2 (Continued)

Sample Identification: Effluent 07/24/14 0000, 2400

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
1,2-Diphenylhydrazine EPA 625	< 20	20	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Fluorene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Hexachlorobenzene EPA 625	< 5.0	5.0	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Hexachlorobutadiene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Hexachlorocyclopentadiene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Hexachloroethane EPA 625	< 20	20	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Indeno(1,2,3-cd)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Isophorone EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
n-Nitrosodi-n-propylamine EPA 625	< 20	20	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
n-Nitrosodimethylamine EPA 625	< 50	50	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
n-Nitrosodiphenylamine EPA 625	< 20	20	ug/l	R
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Naphthalene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Nitrobenzene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2-Nitrophenol EPA 625	< 20	20	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
4-Nitrophenol EPA 625	< 50	50	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
p-Chloro-m-cresol EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Pentachlorophenol EPA 625	< 5.0	5.0	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Phenanthrene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Phenol EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Pyrene EPA 625	< 10	10	ug/l	
Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	

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ANALYTICAL RESULTS

AIC No. 181068-2 (Continued)

Sample Identification: Effluent 07/24/14 0000, 2400

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
1,2,4-Trichlorobenzene	< 10	10	ug/l	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
2,4,6-Trichlorophenol	< 10	10	ug/l	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Surrogate: 2-Fluorobiphenyl (50.0-110%)	86.0		%	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Surrogate: 2-Fluorophenol (20.0-110%)	59.8		%	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Surrogate: Nitrobenzene-D5 (40.0-110%)	66.2		%	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Surrogate: Terphenyl-D14 (50.0-135%)	75.7		%	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Surrogate: 2,4,6-Tribromophenol (40.0-125%)	86.6		%	
EPA 625 Prep: 30-Jul-2014 1450 by 301	Analyzed: 31-Jul-2014 1343 by 301		Batch: B9091	
Organochlorine Pesticides and PCBs By EPA 608				
Aldrin	< 0.010	0.010	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
alpha-BHC	< 0.050	0.050	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
alpha-Endosulfan	< 0.010	0.010	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
beta-BHC	< 0.050	0.050	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
beta-Endosulfan	< 0.020	0.020	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Chlordane	< 0.20	0.20	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Chlorpyrifos	< 0.070	0.070	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
4,4'-DDD	< 0.10	0.10	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
4,4'-DDE	< 0.10	0.10	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
4,4'-DDT	< 0.020	0.020	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
delta-BHC	< 0.050	0.050	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Dieldrin	< 0.020	0.020	ug/l	
EPA 608 Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	



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ANALYTICAL RESULTS

AIC No. 181068-2 (Continued)

Sample Identification: Effluent 07/24/14 0000, 2400

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides and PCBs By EPA 608 (Continued)				
Endosulfan sulfate EPA 608	< 0.10	0.10	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Endrin EPA 608	< 0.020	0.020	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Endrin aldehyde EPA 608	< 0.10	0.10	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
gamma-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Heptachlor EPA 608	< 0.010	0.010	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Heptachlor epoxide EPA 608	< 0.010	0.010	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1016 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1221 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1232 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1242 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1248 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1254 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
PCB 1260 EPA 608	< 0.20	0.20	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Toxaphene EPA 608	< 0.30	0.30	ug/l	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 608	118		%	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 608	102		%	
Prep: 30-Jul-2014 1613 by 306	Analyzed: 31-Jul-2014 1259 by 306		Batch: G9789	

AIC No. 181068-3

Sample Identification: Belt Press Influent 07/25/14 0730

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 0.09	0.09	mg/Kg	W
Prep: 30-Jul-2014 0817 by 308	Analyzed: 30-Jul-2014 1332 by 308		Batch: W48650	
Total Recoverable Phenolics EPA 9065	1.3	0.5	mg/Kg	W
Prep: 30-Jul-2014 0818 by 308	Analyzed: 30-Jul-2014 1140 by 308		Batch: W48652	

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ANALYTICAL RESULTS
AIC No. 181068-3 (Continued)
Sample Identification: Belt Press Influent 07/25/14 0730

Analyte		Result	RL	Units	Qualifier
Total Solids		4.9	0.01	wt %	
SM 2540 G 1997	Prep: 30-Jul-2014 0853 by 271	Analyzed: 31-Jul-2014 1220 by 271		Batch: W48654	
Antimony		< 3	3	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Arsenic		< 5	5	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Beryllium		0.032	0.03	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Cadmium		< 0.4	0.4	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Chromium		22	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Copper		90	0.6	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Lead		< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Molybdenum		5.2	0.8	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Nickel		19	1	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Selenium		< 7	7	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Silver		1.4	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Thallium		< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Zinc		320	0.2	mg/Kg	
EPA 3051A, 6010C	Prep: 30-Jul-2014 1030 by 311	Analyzed: 31-Jul-2014 0948 by 311		Batch: S37149	
Mercury		0.13	0.1	mg/Kg	
EPA 7471B	Prep: 30-Jul-2014 1029 by 311	Analyzed: 31-Jul-2014 1255 by 311		Batch: S37148	
Organochlorine Pesticides By EPA 3550C, 8081B					
Aldrin		< 0.67	0.67	ug/Kg	W
EPA 3550C, 8081B	Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
alpha-BHC		< 1.4	1.4	ug/Kg	W
EPA 3550C, 8081B	Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
alpha-Endosulfan		< 0.67	0.67	ug/Kg	W
EPA 3550C, 8081B	Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
beta-BHC		< 1.4	1.4	ug/Kg	W
EPA 3550C, 8081B	Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
beta-Endosulfan		< 1.4	1.4	ug/Kg	W
EPA 3550C, 8081B	Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	

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ANALYTICAL RESULTS

AIC No. 181068-3 (Continued)

Sample Identification: Belt Press Influent 07/25/14 0730

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides By EPA 3550C, 8081B (Continued)				
Chlordane EPA 3550C, 8081B	< 6.7	6.7	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
4,4'-DDD EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
4,4'-DDE EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
4,4'-DDT EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
delta-BHC EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Dieldrin EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Endosulfan sulfate EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Endrin EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Endrin aldehyde EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
gamma-BHC EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Heptachlor EPA 3550C, 8081B	< 0.67	0.67	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Heptachlor epoxide EPA 3550C, 8081B	< 0.67	0.67	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Methoxychlor EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Toxaphene EPA 3550C, 8081B	< 14	14	ug/Kg	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Surrogate: Decachlorobiphenyl (55.0-130%) EPA 3550C, 8081B	61.0		%	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Surrogate: Tetrachloro-m-xylene (70.0-125%) EPA 3550C, 8081B	100		%	W
Prep: 31-Jul-2014 1345 by 306	Analyzed: 04-Aug-2014 1734 by 306		Batch: G9791	
Polychlorinated Biphenyls (PCBs) By EPA 3550C, 8082A				
PCB 1016 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	
PCB 1221 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	
PCB 1232 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	



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ANALYTICAL RESULTS

AIC No. 181068-3 (Continued)

Sample Identification: Belt Press Influent 07/25/14 0730

Analyte	Result	RL	Units	Qualifier
Polychlorinated Biphenyls (PCBs) By EPA 3550C, 8082A (Continued)				
PCB 1242 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	
PCB 1248 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	
PCB 1254 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	
PCB 1260 EPA 3550C, 8082A	< 0.013	0.013	mg/Kg	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	
Surrogate: Decachlorobiphenyl (0.00-144%) EPA 3550C, 8082A	113		%	W
Prep: 30-Jul-2014 1425 by 306	Analyzed: 31-Jul-2014 0945 by 301		Batch: G9787	

AIC No. 181068-4

Sample Identification: Effluent 07/24/14 0000, 0600, 1200, 1800

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.011	0.005	mg/l	
Prep: 30-Jul-2014 0819 by 308	Analyzed: 30-Jul-2014 1140 by 308		Batch: W48653	
Total Cyanide SM 4500-CN C,E 1999	< 0.01	0.01	mg/l	
Prep: 30-Jul-2014 0817 by 308	Analyzed: 30-Jul-2014 1236 by 308		Batch: W48651	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Solids	181100-1	2.9 wt %			30Jul14 0853 by 271	31Jul14 1220 by 271		
	Batch: W48654 Duplicate	2.9 wt %	0.244	10.0	30Jul14 0854 by 271	31Jul14 1220 by 271		
Volatile Organic Compounds								
Acrolein	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Acrylonitrile	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Benzene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Bromodichloromethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Bromoform	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Bromomethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Carbon tetrachloride	181032-1	< 0.20 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.20 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Chlorobenzene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Chloroethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
2-Chloroethyl vinyl ether	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	20.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Chloroform	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Chloromethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Dibromochloromethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,2-Dichlorobenzene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,3-Dichlorobenzene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,4-Dichlorobenzene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,1-Dichloroethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,2-Dichloroethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
trans-1,2-Dichloroethene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,1-Dichloroethylene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,2-Dichloropropane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,3-Dichloropropylene	181032-1	< 0.10 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.10 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	DII	Qual
Ethylbenzene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Methylene chloride	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,1,2-Tetrachloroethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Tetrachloroethylene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Toluene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,1,1-Trichloroethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
1,1,2-Trichloroethane	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Trichloroethylene	181032-1	< 0.50 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.50 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Vinyl chloride	181032-1	< 0.20 mg/l			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	< 0.20 mg/l	0.00	30.0	31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	181032-1	97.0 %			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	95.3 %			31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Dibromofluoromethane (85.0-115%)	181032-1	90.7 %			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	93.0 %			31Jul14 1105 by 301	31Jul14 1456 by 301	100	D
Toluene-D8 (85.0-120%)	181032-1	100 %			31Jul14 1105 by 301	31Jul14 1419 by 301	100	D
	Batch: V8567 Duplicate	99.5 %			31Jul14 1105 by 301	31Jul14 1456 by 301	100	D



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	104	85.0-115			W48653	30Jul14 0819 by 308	30Jul14 1140 by 308		
Total Cyanide	0.1 mg/l	95.9	85.0-115			W48651	30Jul14 0818 by 308	30Jul14 1234 by 308		
Total Recoverable Antimony	0.05 mg/l	106	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1719 by 302		
Total Recoverable Arsenic	0.05 mg/l	109	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Beryllium	0.05 mg/l	102	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1719 by 302		
Total Recoverable Cadmium	0.05 mg/l	103	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Chromium	0.05 mg/l	112	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Copper	0.05 mg/l	111	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Lead	0.05 mg/l	113	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Molybdenum	0.05 mg/l	114	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Nickel	0.05 mg/l	113	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Selenium	0.05 mg/l	111	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1617 by 302		
Total Recoverable Silver	0.02 mg/l	98.5	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Thallium	0.05 mg/l	115	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Recoverable Zinc	0.05 mg/l	113	85.0-115			S37157	31Jul14 1212 by 311	01Aug14 1428 by 302		
Total Cyanide	0.500 mg/Kg	95.6	85.0-115			W48650	30Jul14 0817 by 308	30Jul14 1331 by 308		
Total Recoverable Phenolics	10.0 mg/Kg	99.0	85.0-115			W48652	30Jul14 0818 by 308	30Jul14 1140 by 308		
Antimony	500 mg/Kg	106	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Arsenic	500 mg/Kg	106	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Beryllium	50.0 mg/Kg	107	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Cadmium	500 mg/Kg	103	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Chromium	50.0 mg/Kg	106	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Copper	50.0 mg/Kg	106	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Lead	500 mg/Kg	105	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Molybdenum	50.0 mg/Kg	104	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Nickel	50.0 mg/Kg	106	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Selenium	500 mg/Kg	104	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Silver	10.0 mg/Kg	96.0	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Thallium	500 mg/Kg	109	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Zinc	50.0 mg/Kg	105	85.0-115			S37149	30Jul14 1030 by 311	31Jul14 0926 by 311		
Mercury	1.25 mg/Kg	94.2	85.0-115			S37148	30Jul14 1030 by 311	31Jul14 1224 by 311		
Base/Neutral and Acid Compounds										
Acenaphthene	40 ug/l	86.9	45.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Acenaphthylene	40 ug/l	75.5	50.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Anthracene	40 ug/l	85.8	55.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Benzidine	100 ug/l	2.26	0.00-61.1			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Benzo(a)anthracene	40 ug/l	92.8	55.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Benzo(a)pyrene	40 ug/l	89.2	55.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Benzo(g,h,i)perylene	40 ug/l	70.2	40.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Benzo(k)fluoranthene	40 ug/l	80.8	45.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
3,4-Benzofluoranthene	40 ug/l	87.6	45.0-120			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		



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Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Bis(2-chloroethoxy)methane	40 ug/l	76.7	45.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Bis(2-chloroethyl)ether	40 ug/l	79.2	35.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Bis(2-chloroisopropyl)ether	40 ug/l	75.2	25.0-130			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Bis(2-ethylhexyl)phthalate	40 ug/l	93.7	40.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
4-Bromophenyl phenyl ether	40 ug/l	78.6	50.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Butylbenzyl phthalate	40 ug/l	93.4	45.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2-Chloronaphthalene	40 ug/l	80.0	50.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2-Chlorophenol	40 ug/l	75.9	35.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
4-Chlorophenyl phenyl ether	40 ug/l	83.5	50.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Chrysene	40 ug/l	79.7	55.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Di-n-butyl phthalate	40 ug/l	94.2	55.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Di-n-octyl phthalate	40 ug/l	87.8	35.0-135			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Dibenz(a,h)anthracene	40 ug/l	73.5	40.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
1,2-Dichlorobenzene	40 ug/l	79.6	35.0-100			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
1,3-Dichlorobenzene	40 ug/l	78.0	30.0-100			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
1,4-Dichlorobenzene	40 ug/l	79.8	30.0-100			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
3,3'-Dichlorobenzidine	40 ug/l	102	20.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,4-Dichlorophenol	40 ug/l	78.3	50.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Diethyl phthalate	40 ug/l	94.4	40.0-120			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Dimethyl phthalate	40 ug/l	86.6	25.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,4-Dimethylphenol	40 ug/l	73.0	30.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
4,6-Dinitro-o-cresol	40 ug/l	112	40.0-130			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,4-Dinitrophenol	40 ug/l	78.4	15.0-140			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,4-Dinitrotoluene	40 ug/l	92.1	50.0-120			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,6-Dinitrotoluene	40 ug/l	87.8	50.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
1,2-Diphenylhydrazine	40 ug/l	82.2	55.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Fluorene	40 ug/l	80.2	50.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Hexachlorobenzene	40 ug/l	77.1	50.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Hexachlorobutadiene	40 ug/l	74.2	25.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Hexachlorocyclopentadiene	40 ug/l	94.0	35.0-102			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Hexachloroethane	40 ug/l	78.3	30.0-100			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Indeno(1,2,3-cd)pyrene	40 ug/l	87.0	45.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Isophorone	40 ug/l	76.8	50.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
n-Nitrosodi-n-propylamine	40 ug/l	80.3	35.0-130			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
n-Nitrosodimethylamine	40 ug/l	50.4	25.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
n-Nitrosodiphenylamine	40 ug/l	84.7	50.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Naphthalene	40 ug/l	74.8	40.0-100			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Nitrobenzene	40 ug/l	74.3	45.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2-Nitrophenol	40 ug/l	86.7	40.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
4-Nitrophenol	40 ug/l	73.1	0.00-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
p-Chloro-m-cresol	40 ug/l	85.7	45.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Pentachlorophenol	40 ug/l	89.8	40.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Phenanthrene	40 ug/l	89.7	50.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Phenol	40 ug/l	48.6	0.00-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Pyrene	40 ug/l	72.2	50.0-130			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
1,2,4-Trichlorobenzene	40 ug/l	77.7	35.0-105			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,4,6-Trichlorophenol	40 ug/l	88.5	50.0-115			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	83.1	50.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2-Fluorophenol	40 ug/l	66.3	20.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Nitrobenzene-D5	40 ug/l	82.4	40.0-110			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Terphenyl-D14	40 ug/l	78.3	50.0-135			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
2,4,6-Tribromophenol	40 ug/l	105	40.0-125			B9091	30Jul14 1450 by 301	31Jul14 1057 by 301		
Volatile Organic Compounds										
Acrolein	100 ug/l	81.2	53.1-123			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Acrylonitrile	100 ug/l	91.2	58.0-137			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Benzene	20 ug/l	90.0	80.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Bromodichloromethane	20 ug/l	86.3	75.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Bromoform	20 ug/l	86.7	70.0-130			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Bromomethane	20 ug/l	136	30.0-145			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Carbon tetrachloride	20 ug/l	101	65.0-140			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Chlorobenzene	20 ug/l	92.0	80.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Chloroethane	20 ug/l	92.2	60.0-135			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
2-Chloroethyl vinyl ether	40 ug/l	86.9	60.3-135			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Chloroform	20 ug/l	85.0	65.0-135			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Chloromethane	20 ug/l	88.9	40.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Dibromochloromethane	20 ug/l	86.4	60.0-135			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,2-Dichlorobenzene	20 ug/l	94.8	70.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,3-Dichlorobenzene	20 ug/l	92.5	75.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,4-Dichlorobenzene	20 ug/l	93.0	75.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,1-Dichloroethane	20 ug/l	92.3	70.0-135			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,2-Dichloroethane	20 ug/l	90.2	70.0-130			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,1-Dichloroethene	20 ug/l	87.3	70.0-130			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
trans-1,2-Dichloroethene	20 ug/l	92.9	60.0-140			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,2-Dichloropropane	20 ug/l	89.0	75.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,3-Dichloropropylene	20 ug/l	82.8	70.0-130			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Ethylbenzene	20 ug/l	89.8	75.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Methylene chloride	20 ug/l	99.4	55.0-140			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,1,2,2-Tetrachloroethane	20 ug/l	93.3	65.0-130			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Tetrachloroethene	20 ug/l	90.8	45.0-150			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Toluene	20 ug/l	88.2	75.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,1,1-Trichloroethane	20 ug/l	83.2	65.0-130			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
1,1,2-Trichloroethane	20 ug/l	87.0	75.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Trichloroethene	20 ug/l	88.8	70.0-125			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Vinyl chloride	20 ug/l	90.2	50.0-145			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	99.0	75.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Dibromofluoromethane	50 ug/l	92.5	85.0-115			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Toluene-D8	50 ug/l	101	85.0-120			V8567	31Jul14 1105 by 301	31Jul14 1148 by 301		
Organochlorine Pesticides and PCBs										
Aldrin	10 ug/l	73.8	25.0-140			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
alpha-BHC	10 ug/l	79.5	60.0-130			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
alpha-Endosulfan	10 ug/l	75.4	50.0-110			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
beta-BHC	10 ug/l	89.7	65.0-125			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
beta-Endosulfan	10 ug/l	84.3	30.0-130			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Chlorpyrifos	10 ug/l	97.2	62.4-127			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
4,4'-DDD	10 ug/l	81.9	25.0-150			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
4,4'-DDE	10 ug/l	78.9	35.0-140			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
4,4'-DDT	10 ug/l	91.6	45.0-140			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
delta-BHC	10 ug/l	84.0	45.0-135			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Dieldrin	10 ug/l	81.4	60.0-130			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Endosulfan sulfate	10 ug/l	86.4	55.0-135			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Endrin	10 ug/l	84.0	55.0-135			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Endrin aldehyde	10 ug/l	80.4	55.0-135			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
gamma-BHC	10 ug/l	79.7	25.0-135			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Heptachlor	10 ug/l	84.9	40.0-130			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Heptachlor epoxide	10 ug/l	62.3	60.0-130			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Organochlorine Pesticides and PCBs Surrogates:										
Decachlorobiphenyl	20 ug/l	74.6	30.0-135			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Tetrachloro-m-xylene	20 ug/l	83.1	25.0-140			G9789	30Jul14 1613 by 306	31Jul14 1216 by 306		
Organochlorine Pesticides										
Aldrin	4.44 ug/Kg	65.3	45.0-140			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
alpha-BHC	4.44 ug/Kg	66.6	60.0-125			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
alpha-Endosulfan	4.44 ug/Kg	72.9	15.0-135			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
beta-BHC	4.44 ug/Kg	71.4	60.0-125			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
beta-Endosulfan	4.44 ug/Kg	75.4	35.0-140			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
4,4'-DDD	4.44 ug/Kg	77.2	30.0-135			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
4,4'-DDE	4.44 ug/Kg	70.8	70.0-125			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Organochlorine Pesticides (Continued)										
4,4'-DDT	4.44 ug/Kg	94.6	45.0-140			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
delta-BHC	4.44 ug/Kg	66.5	55.0-130			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Dieldrin	4.44 ug/Kg	70.9	65.0-125			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Endosulfan sulfate	4.44 ug/Kg	76.3	60.0-135			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Endrin	4.44 ug/Kg	74.3	60.0-135			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Endrin aldehyde	4.44 ug/Kg	70.8	35.0-145			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
gamma-BHC	4.44 ug/Kg	63.1	60.0-125			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Heptachlor	4.44 ug/Kg	67.1	50.0-140			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Heptachlor epoxide	4.44 ug/Kg	71.8	65.0-130			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Methoxychlor	4.44 ug/Kg	81.6	55.0-145			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Organochlorine Pesticides Surrogates:										
Decachlorobiphenyl	13.3 ug/Kg	66.4	55.0-130			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Tetrachloro-m-xylene	13.3 ug/Kg	76.2	70.0-125			G9791	31Jul14 1345 by 306	04Aug14 1659 by 306		
Polychlorinated Biphenyls (PCBs)										
PCB 1254	0.167 mg/Kg	107	20.0-130			G9787	30Jul14 1425 by 306	31Jul14 0432 by 301		
Polychlorinated Biphenyls (PCBs) Surrogates:										
Decachlorobiphenyl	50.0 ug/Kg	98.6	36.7-138			G9787	30Jul14 1425 by 306	31Jul14 0432 by 301		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	181068-4	0.1 mg/l	98.3	80.0-120	W48653	30Jul14 0819 by 308	30Jul14 1140 by 308		
	181068-4	0.1 mg/l	99.1	80.0-120	W48653	30Jul14 0819 by 308	30Jul14 1140 by 308		
	Relative Percent Difference:		0.729	10.0	W48653				
Total Cyanide	181068-4	0.1 mg/l	91.7	75.0-125	W48651	30Jul14 0818 by 308	30Jul14 1238 by 308		
	181068-4	0.1 mg/l	90.6	75.0-125	W48651	30Jul14 0818 by 308	30Jul14 1240 by 308		
	Relative Percent Difference:		1.17	20.0	W48651				
Total Recoverable Antimony	180994-1	0.05 mg/l	112	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1725 by 302		
	180994-1	0.05 mg/l	113	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1730 by 302		
	Relative Percent Difference:		1.19	20.0	S37157				
Total Recoverable Arsenic	180994-1	0.05 mg/l	109	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	112	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		2.59	20.0	S37157				
Total Recoverable Beryllium	180994-1	0.05 mg/l	108	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1725 by 302		
	180994-1	0.05 mg/l	109	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1730 by 302		
	Relative Percent Difference:		0.469	20.0	S37157				
Total Recoverable Cadmium	180994-1	0.05 mg/l	94.3	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	95.0	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		0.820	20.0	S37157				
Total Recoverable Chromium	180994-1	0.05 mg/l	108	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	110	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		1.28	20.0	S37157				
Total Recoverable Copper	180994-1	0.05 mg/l	108	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	107	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		0.983	20.0	S37157				
Total Recoverable Lead	180994-1	0.05 mg/l	113	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	114	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		1.10	20.0	S37157				
Total Recoverable Molybdenum	180994-1	0.05 mg/l	116	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	117	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		0.852	20.0	S37157				
Total Recoverable Nickel	180994-1	0.05 mg/l	110	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	110	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		0.267	20.0	S37157				
Total Recoverable Selenium	180994-1	0.05 mg/l	109	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	110	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		0.403	20.0	S37157				
Total Recoverable Silver	180994-1	0.02 mg/l	91.6	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.02 mg/l	90.5	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		1.15	20.0	S37157				
Total Recoverable Thallium	180994-1	0.05 mg/l	115	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	117	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		2.28	20.0	S37157				
Total Recoverable Zinc	180994-1	0.05 mg/l	108	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1437 by 302		
	180994-1	0.05 mg/l	106	75.0-125	S37157	31Jul14 1212 by 311	01Aug14 1446 by 302		
	Relative Percent Difference:		1.28	20.0	S37157				
Total Cyanide	181068-3	0.978 mg/Kg	89.8	75.0-125	W48650	30Jul14 0817 by 308	30Jul14 1334 by 308		
	181068-3	0.975 mg/Kg	76.3	75.0-125	W48650	30Jul14 0817 by 308	30Jul14 1336 by 308		
	Relative Percent Difference:		15.9	20.0	W48650				
Total Recoverable Phenolics	181068-3	9.38 mg/Kg	95.2	80.0-120	W48652	30Jul14 0818 by 308	30Jul14 1140 by 308		
	181068-3	9.77 mg/Kg	97.3	80.0-120	W48652	30Jul14 0818 by 308	30Jul14 1140 by 308		
	Relative Percent Difference:		1.76	10.0	W48652				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	181085-1	494 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	499 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.203	20.0	S37149				
Arsenic	181085-1	494 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	499 mg/Kg	102	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.165	20.0	S37149				
Beryllium	181085-1	49.4 mg/Kg	101	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	49.9 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		1.28	20.0	S37149				
Cadmium	181085-1	494 mg/Kg	98.8	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	499 mg/Kg	99.0	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.154	20.0	S37149				
Chromium	181085-1	49.4 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	49.9 mg/Kg	102	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.314	20.0	S37149				
Copper	181085-1	49.4 mg/Kg	105	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	49.9 mg/Kg	106	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.961	20.0	S37149				
Lead	181085-1	494 mg/Kg	104	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	499 mg/Kg	104	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.217	20.0	S37149				
Molybdenum	181085-1	49.4 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	49.9 mg/Kg	103	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.118	20.0	S37149				
Nickel	181085-1	49.4 mg/Kg	102	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	49.9 mg/Kg	102	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.263	20.0	S37149				
Selenium	181085-1	494 mg/Kg	94.6	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	499 mg/Kg	93.9	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.771	20.0	S37149				
Silver	181085-1	9.88 mg/Kg	93.2	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	9.97 mg/Kg	93.4	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.0936	20.0	S37149				
Thallium	181085-1	494 mg/Kg	109	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	499 mg/Kg	109	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.320	20.0	S37149				
Zinc	181085-1	49.4 mg/Kg	96.0	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0930 by 311		
	181085-1	49.9 mg/Kg	95.9	75.0-125	S37149	30Jul14 1030 by 311	31Jul14 0935 by 311		
	Relative Percent Difference:		0.117	20.0	S37149				
Mercury	181085-1	2.42 mg/Kg	88.1	70.0-130	S37148	30Jul14 1030 by 311	31Jul14 1228 by 311		
	181085-1	2.42 mg/Kg	87.9	70.0-130	S37148	30Jul14 1030 by 311	31Jul14 1242 by 311		
	Relative Percent Difference:		0.227	20.0	S37148				
Base/Neutral and Acid Compounds									
Acenaphthene	181091-1	40 ug/l	77.3	45.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	84.8	45.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		9.22	30.0	B9091				
Acenaphthylene	181091-1	40 ug/l	71.4	50.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	76.4	50.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		6.70	30.0	B9091				

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Anthracene	181091-1	40 ug/l	83.4	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	85.5	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		2.49	30.0	B9091				
Benzidine	181091-1	100 ug/l	22.8	0.00-47.0	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	100 ug/l	23.9	0.00-47.0	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		4.80	166	B9091				
Benzo(a)anthracene	181091-1	40 ug/l	91.9	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	95.4	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.79	30.0	B9091				
Benzo(a)pyrene	181091-1	40 ug/l	85.8	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	90.1	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		4.92	30.0	B9091				
Benzo(g,h,i)perylene	181091-1	40 ug/l	74.8	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	71.7	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		4.23	30.0	B9091				
Benzo(k)fluoranthene	181091-1	40 ug/l	76.2	45.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	77.5	45.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.72	30.0	B9091				
3,4-Benzofluoranthene	181091-1	40 ug/l	83.5	45.0-120	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	89.8	45.0-120	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		7.27	30.0	B9091				
Bis(2-chloroethoxy)methane	181091-1	40 ug/l	69.0	45.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	68.9	45.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.109	30.0	B9091				
Bis(2-chloroethyl)ether	181091-1	40 ug/l	73.5	35.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	79.1	35.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		7.31	30.0	B9091				
Bis(2-chloroisopropyl)ether	181091-1	40 ug/l	69.4	25.0-130	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	75.5	25.0-130	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		8.42	30.0	B9091				
Bis(2-ethylhexyl)phthalate	181091-1	40 ug/l	92.8	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	95.7	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.13	30.0	B9091				
4-Bromophenyl phenyl ether	181091-1	40 ug/l	73.1	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	71.2	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		2.60	30.0	B9091				
Butylbenzyl phthalate	181091-1	40 ug/l	89.9	45.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	90.9	45.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.08	30.0	B9091				
2-Chloronaphthalene	181091-1	40 ug/l	74.8	50.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	77.4	50.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.45	30.0	B9091				
2-Chlorophenol	181091-1	40 ug/l	70.2	35.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	75.9	35.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		7.77	30.0	B9091				
4-Chlorophenyl phenyl ether	181091-1	40 ug/l	76.3	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	78.3	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		2.65	30.0	B9091				
Chrysene	181091-1	40 ug/l	79.0	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	81.8	55.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.52	30.0	B9091				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Di-n-butyl phthalate	181091-1	40 ug/l	90.4	55.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	98.3	55.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		8.40	30.0	B9091				
Di-n-octyl phthalate	181091-1	40 ug/l	83.0	35.0-135	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	86.0	35.0-135	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.52	30.0	B9091				
Dibenz(a,h)anthracene	181091-1	40 ug/l	77.4	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	75.7	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		2.16	30.0	B9091				
1,2-Dichlorobenzene	181091-1	40 ug/l	74.2	35.0-100	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	82.2	35.0-100	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		10.4	30.0	B9091				
1,3-Dichlorobenzene	181091-1	40 ug/l	73.0	30.0-100	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	80.4	30.0-100	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		9.55	30.0	B9091				
1,4-Dichlorobenzene	181091-1	40 ug/l	74.7	30.0-100	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	83.6	30.0-100	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		11.3	30.0	B9091				
3,3'-Dichlorobenzidine	181091-1	40 ug/l	109	20.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	108	20.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.622	30.0	B9091				
2,4-Dichlorophenol	181091-1	40 ug/l	71.7	50.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	72.0	50.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.383	30.0	B9091				
Diethyl phthalate	181091-1	40 ug/l	88.7	40.0-120	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	94.8	40.0-120	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		6.73	30.0	B9091				
Dimethyl phthalate	181091-1	40 ug/l	83.2	25.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	91.2	25.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		9.20	30.0	B9091				
2,4-Dimethylphenol	181091-1	40 ug/l	67.0	30.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	67.4	30.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.670	30.0	B9091				
4,6-Dinitro-o-cresol	181091-1	40 ug/l	110	40.0-130	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	114	40.0-130	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.30	30.0	B9091				
2,4-Dinitrophenol	181091-1	40 ug/l	111	15.0-140	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	110	15.0-140	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.634	30.0	B9091				
2,4-Dinitrotoluene	181091-1	40 ug/l	83.8	50.0-120	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	84.8	50.0-120	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.25	30.0	B9091				
2,6-Dinitrotoluene	181091-1	40 ug/l	78.7	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	78.4	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.414	30.0	B9091				
1,2-Diphenylhydrazine	181091-1	40 ug/l	74.8	55.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	76.4	55.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		2.12	30.0	B9091				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Fluorene	181091-1	40 ug/l	75.6	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	83.1	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		9.42	30.0	B9091				
Hexachlorobenzene	181091-1	40 ug/l	71.6	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	71.3	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.420	30.0	B9091				
Hexachlorobutadiene	181091-1	40 ug/l	66.4	25.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	65.9	25.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.794	30.0	B9091				
Hexachlorocyclopentadiene	181091-1	40 ug/l	80.7	24.0-124	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	80.9	24.0-124	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.247	41.4	B9091				
Hexachloroethane	181091-1	40 ug/l	71.0	30.0-100	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	75.3	30.0-100	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		5.95	30.0	B9091				
Indeno(1,2,3-cd)pyrene	181091-1	40 ug/l	90.8	45.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	87.8	45.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		3.28	30.0	B9091				
Isophorone	181091-1	40 ug/l	67.6	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	68.0	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.590	30.0	B9091				
n-Nitrosodi-n-propylamine	181091-1	40 ug/l	73.4	35.0-130	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	78.4	35.0-130	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		6.52	30.0	B9091				
n-Nitrosodimethylamine	181091-1	40 ug/l	46.3	25.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	45.5	25.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.63	30.0	B9091				
n-Nitrosodiphenylamine	181091-1	40 ug/l	77.1	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	77.5	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.550	30.0	B9091				
Naphthalene	181091-1	40 ug/l	71.2	40.0-100	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	76.2	40.0-100	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		6.88	30.0	B9091				
Nitrobenzene	181091-1	40 ug/l	66.6	45.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	66.4	45.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.150	30.0	B9091				
2-Nitrophenol	181091-1	40 ug/l	76.3	40.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	77.2	40.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.17	30.0	B9091				
4-Nitrophenol	181091-1	40 ug/l	71.0	0.00-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	74.6	0.00-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		5.01	30.0	B9091				
p-Chloro-m-cresol	181091-1	40 ug/l	78.0	45.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	78.6	45.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.766	30.0	B9091				
Pentachlorophenol	181091-1	40 ug/l	107	40.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	114	40.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		6.32	30.0	B9091				
Phenanthrene	181091-1	40 ug/l	84.0	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	86.1	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		2.44	30.0	B9091				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Phenol	181091-1	40 ug/l	44.3	0.00-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	46.5	0.00-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		4.90	30.0	B9091				
Pyrene	181091-1	40 ug/l	70.1	50.0-130	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	69.6	50.0-130	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		0.823	30.0	B9091				
1,2,4-Trichlorobenzene	181091-1	40 ug/l	68.0	35.0-105	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	68.7	35.0-105	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.06	30.0	B9091				
2,4,6-Trichlorophenol	181091-1	40 ug/l	80.6	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301	10	D
	181091-1	40 ug/l	81.8	50.0-115	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301	10	D
	Relative Percent Difference:		1.35	30.0	B9091				
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	181091-1	40 ug/l	79.1	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301		
	181091-1	40 ug/l	83.9	50.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301		
2-Fluorophenol	181091-1	40 ug/l	61.0	20.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301		
	181091-1	40 ug/l	63.0	20.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301		
Nitrobenzene-D5	181091-1	40 ug/l	72.9	40.0-110	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301		
	181091-1	40 ug/l	72.9	40.0-110	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301		
Terphenyl-D14	181091-1	40 ug/l	75.5	50.0-135	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301		
	181091-1	40 ug/l	75.6	50.0-135	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301		
2,4,6-Tribromophenol	181091-1	40 ug/l	97.2	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1130 by 301		
	181091-1	40 ug/l	96.6	40.0-125	B9091	30Jul14 1450 by 301	31Jul14 1203 by 301		
Volatile Organic Compounds									
Acrolein	181032-1	100 ug/l	52.6	0.00-166	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Acrylonitrile	181032-1	100 ug/l	89.6	43.8-136	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Benzene	181032-1	20 ug/l	99.8	80.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Bromodichloromethane	181032-1	20 ug/l	95.2	75.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Bromoform	181032-1	20 ug/l	93.8	70.0-130	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Bromomethane	181032-1	20 ug/l	144	30.0-145	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Carbon tetrachloride	181032-1	20 ug/l	111	65.0-140	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Chlorobenzene	181032-1	20 ug/l	101	80.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Chloroethane	181032-1	20 ug/l	101	60.0-135	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
2-Chloroethyl vinyl ether	181032-1	40 ug/l	96.3	37.9-154	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Chloroform	181032-1	20 ug/l	93.5	65.0-135	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Chloromethane	181032-1	20 ug/l	100	40.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Dibromochloromethane	181032-1	20 ug/l	97.8	60.0-135	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,2-Dichlorobenzene	181032-1	20 ug/l	104	70.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,3-Dichlorobenzene	181032-1	20 ug/l	105	75.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,4-Dichlorobenzene	181032-1	20 ug/l	104	75.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,1-Dichloroethane	181032-1	20 ug/l	101	70.0-135	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,2-Dichloroethane	181032-1	20 ug/l	98.4	70.0-130	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,1-Dichloroethene	181032-1	20 ug/l	98.8	70.0-130	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
trans-1,2-Dichloroethene	181032-1	20 ug/l	101	60.0-140	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,2-Dichloropropane	181032-1	20 ug/l	97.0	75.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,3-Dichloropropylene	181032-1	20 ug/l	93.8	70.0-130	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Ethylbenzene	181032-1	20 ug/l	100	75.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Methylene chloride	181032-1	20 ug/l	115	55.0-140	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,1,2,2-Tetrachloroethane	181032-1	20 ug/l	99.0	65.0-130	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Tetrachloroethene	181032-1	20 ug/l	104	45.0-150	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Toluene	181032-1	20 ug/l	99.1	75.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,1,1-Trichloroethane	181032-1	20 ug/l	94.0	65.0-130	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
1,1,2-Trichloroethane	181032-1	20 ug/l	95.4	75.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Trichloroethene	181032-1	20 ug/l	99.6	70.0-125	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Vinyl chloride	181032-1	20 ug/l	103	50.0-145	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	181032-1	50 ug/l	98.7	75.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Dibromofluoromethane	181032-1	50 ug/l	92.4	85.0-115	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Toluene-D8	181032-1	50 ug/l	102	85.0-120	V8567	31Jul14 1105 by 301	31Jul14 1226 by 301	100	D
Organochlorine Pesticides and PCBs									
Aldrin	181068-2	10 ug/l	70.4	25.0-140	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	65.6	25.0-140	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		7.06	30.0	G9789				
alpha-BHC	181068-2	10 ug/l	104	60.0-130	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	96.4	60.0-130	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		7.78	30.0	G9789				
alpha-Endosulfan	181068-2	10 ug/l	79.7	50.0-110	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	100	50.0-110	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		22.9	30.0	G9789				
beta-BHC	181068-2	10 ug/l	83.9	65.0-125	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	107	65.0-125	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		24.3	30.0	G9789				
beta-Endosulfan	181068-2	10 ug/l	69.5	30.0-130	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	93.2	30.0-130	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		29.1	30.0	G9789				
Chlorpyrifos	181068-2	10 ug/l	136	47.9-138	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	134	47.9-138	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		1.41	25.6	G9789				
4,4'-DDD	181068-2	10 ug/l	73.7	25.0-150	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	68.5	25.0-150	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		7.31	30.0	G9789				
4,4'-DDE	181068-2	10 ug/l	86.6	35.0-140	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	76.8	35.0-140	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		12.0	30.0	G9789				
4,4'-DDT	181068-2	10 ug/l	86.9	45.0-140	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	85.0	45.0-140	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		2.21	30.0	G9789				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
delta-BHC	181068-2	10 ug/l	110	45.0-135	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	102	45.0-135	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		7.36	30.0	G9789				
Dieldrin	181068-2	10 ug/l	83.7	60.0-130	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	78.2	60.0-130	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		6.79	30.0	G9789				
Endosulfan sulfate	181068-2	10 ug/l	103	55.0-135	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	99.8	55.0-135	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		3.35	30.0	G9789				
Endrin	181068-2	10 ug/l	109	55.0-135	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	95.9	55.0-135	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		12.5	30.0	G9789				
Endrin aldehyde	181068-2	10 ug/l	78.6	55.0-135	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	73.8	55.0-135	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		6.30	30.0	G9789				
gamma-BHC	181068-2	10 ug/l	74.8	25.0-135	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	69.7	25.0-135	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		7.06	30.0	G9789				
Heptachlor	181068-2	10 ug/l	95.4	40.0-130	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	90.3	40.0-130	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		5.49	30.0	G9789				
Heptachlor epoxide	181068-2	10 ug/l	90.8	60.0-130	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	10 ug/l	74.6	60.0-130	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
	Relative Percent Difference:		19.6	30.0	G9789				
Organochlorine Pesticides and PCBs Surrogates:									
Decachlorobiphenyl	181068-2	20 ug/l	109	30.0-135	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	20 ug/l	99.2	30.0-135	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
Tetrachloro-m-xylene	181068-2	20 ug/l	106	25.0-140	G9789	30Jul14 1613 by 306	31Jul14 1230 by 306		
	181068-2	20 ug/l	92.3	25.0-140	G9789	30Jul14 1613 by 306	31Jul14 1245 by 306		
Organochlorine Pesticides									
Aldrin	181068-3	6.66 ug/Kg	110	45.0-140	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	138	45.0-140	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		22.4	30.0	G9791				
alpha-BHC	181068-3	6.66 ug/Kg	121	60.0-125	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	107	60.0-125	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		11.7	30.0	G9791				
alpha-Endosulfan	181068-3	6.66 ug/Kg	129	15.0-135	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	111	15.0-135	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		15.6	30.0	G9791				
beta-BHC	181068-3	6.66 ug/Kg	117	60.0-125	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	111	60.0-125	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		5.80	30.0	G9791				
beta-Endosulfan	181068-3	6.66 ug/Kg	128	35.0-140	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	103	35.0-140	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		21.2	30.0	G9791				
4,4'-DDD	181068-3	6.66 ug/Kg	93.9	30.0-135	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	115	30.0-135	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		19.3	30.0	G9791				

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
4,4'-DDE	181068-3	6.66 ug/Kg	121	70.0-125	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	102	70.0-125	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		17.4	30.0	G9791				
4,4'-DDT	181068-3	6.66 ug/Kg	115	45.0-140	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	98.0	45.0-140	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		16.6	30.0	G9791				
delta-BHC	181068-3	6.66 ug/Kg	102	55.0-130	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	118	55.0-130	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		24.8	30.0	G9791				
Dieldrin	181068-3	6.66 ug/Kg	87.9	65.0-125	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	111	65.0-125	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		17.9	30.0	G9791				
Endosulfan sulfate	181068-3	6.66 ug/Kg	118	60.0-135	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	95.0	60.0-135	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		22.0	30.0	G9791				
Endrin	181068-3	6.66 ug/Kg	108	60.0-135	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	125	60.0-135	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		24.7	30.0	G9791				
Endrin aldehyde	181068-3	6.66 ug/Kg	81.7	35.0-145	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	87.7	35.0-145	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		7.09	30.0	G9791				
gamma-BHC	181068-3	6.66 ug/Kg	93.8	60.0-125	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	103	60.0-125	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		10.1	30.0	G9791				
Heptachlor	181068-3	6.66 ug/Kg	95.8	50.0-140	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	130	50.0-140	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		9.27	30.0	G9791				
Heptachlor epoxide	181068-3	6.66 ug/Kg	90.3	65.0-130	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	110	65.0-130	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		20.1	30.0	G9791				
Methoxychlor	181068-3	6.66 ug/Kg	118	55.0-145	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	6.66 ug/Kg	141	55.0-145	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
	Relative Percent Difference:		21.7	30.0	G9791				
Organochlorine Pesticides Surrogates:									
Decachlorobiphenyl	181068-3	20.0 ug/Kg	83.2	55.0-130	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	20.0 ug/Kg	69.4	55.0-130	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
Tetrachloro-m-xylene	181068-3	20.0 ug/Kg	70.4	70.0-125	G9791	31Jul14 1345 by 306	04Aug14 1711 by 306		
	181068-3	20.0 ug/Kg	110	70.0-125	G9791	31Jul14 1345 by 306	04Aug14 1722 by 306		
Polychlorinated Biphenyls (PCBs)									
PCB 1254	181084-76	0.1667 mg/Kg	70.5	10.0-145	G9787	30Jul14 1425 by 306	31Jul14 0447 by 301		
	181084-76	0.1667 mg/Kg	96.2	10.0-145	G9787	30Jul14 1425 by 306	31Jul14 0503 by 301		
	Relative Percent Difference:		30.7	32.9	G9787				
Polychlorinated Biphenyls (PCBs) Surrogates:									
Decachlorobiphenyl	181084-76	50 ug/Kg	60.3	0.00-144	G9787	30Jul14 1425 by 306	31Jul14 0447 by 301		
	181084-76	50 ug/Kg	82.1	0.00-144	G9787	30Jul14 1425 by 306	31Jul14 0503 by 301		



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W48653-1	30Jul14 0819 by 308	30Jul14 1140 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W48651-1	30Jul14 0818 by 308	30Jul14 1232 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S37157-1	31Jul14 1212 by 311	01Aug14 1717 by 302	
Total Recoverable Arsenic	< 0.001 mg/l	0.001	0.001	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S37157-1	31Jul14 1212 by 311	01Aug14 1717 by 302	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Copper	< 0.001 mg/l	0.001	0.001	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Lead	< 0.001 mg/l	0.001	0.001	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Nickel	< 0.001 mg/l	0.001	0.001	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Thallium	< 0.001 mg/l	0.001	0.001	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S37157-1	31Jul14 1212 by 311	01Aug14 1422 by 302	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W48650-1	30Jul14 0817 by 308	30Jul14 1329 by 308	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W48652-1	30Jul14 0818 by 308	30Jul14 1140 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W48654-1	30Jul14 0854 by 271	31Jul14 1220 by 271	
Antimony	< 3 mg/Kg	3	3	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Arsenic	< 5 mg/Kg	5	5	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Chromium	< 0.7 mg/Kg	0.7	0.7	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Copper	< 0.6 mg/Kg	0.6	0.6	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Lead	< 4 mg/Kg	4	4	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Nickel	< 1 mg/Kg	1	1	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Selenium	< 7 mg/Kg	7	7	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Silver	< 0.7 mg/Kg	0.7	0.7	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Thallium	< 4 mg/Kg	4	4	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Zinc	< 0.2 mg/Kg	0.2	0.2	S37149-1	30Jul14 1030 by 311	31Jul14 0923 by 311	
Mercury	< 0.1 mg/Kg	0.1	0.1	S37148-1	30Jul14 1030 by 311	31Jul14 1219 by 311	
Base/Neutral and Acid Compounds							
Acenaphthene	< 0.83 ug/l	0.83	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Acenaphthylene	< 0.79 ug/l	0.79	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Anthracene	< 1.5 ug/l	1.5	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Benzidine	< 14 ug/l	14	25	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Benzo(a)anthracene	< 0.75 ug/l	0.75	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Benzo(a)pyrene	< 0.63 ug/l	0.63	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Benzo(g,h,i)perylene	< 0.79 ug/l	0.79	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Benzo(k)fluoranthene	< 1.6 ug/l	1.6	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
3,4-Benzofluoranthene	< 1.4 ug/l	1.4	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Bis(2-chloroethoxy)methane	< 0.80 ug/l	0.80	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Bis(2-chloroethyl)ether	< 0.88 ug/l	0.88	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Bis(2-chloroisopropyl)ether	< 0.94 ug/l	0.94	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Bis(2-ethylhexyl)phthalate	< 3.8 ug/l	3.8	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
4-Bromophenyl phenyl ether	< 1.2 ug/l	1.2	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Butylbenzyl phthalate	< 1.5 ug/l	1.5	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2-Chloronaphthalene	< 0.84 ug/l	0.84	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2-Chlorophenol	< 2.1 ug/l	2.1	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
4-Chlorophenyl phenyl ether	< 0.96 ug/l	0.96	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Chrysene	< 0.83 ug/l	0.83	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Di-n-butyl phthalate	< 1.1 ug/l	1.1	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Di-n-octyl phthalate	< 0.70 ug/l	0.70	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Dibenz(a,h)anthracene	< 1.2 ug/l	1.2	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
3,3'-Dichlorobenzidine	< 4.9 ug/l	4.9	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,4-Dichlorophenol	< 0.51 ug/l	0.51	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Diethyl phthalate	< 0.85 ug/l	0.85	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Dimethyl phthalate	< 0.93 ug/l	0.93	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,4-Dimethylphenol	< 0.79 ug/l	0.79	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
4,6-Dinitro-o-cresol	< 0.75 ug/l	0.75	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,4-Dinitrophenol	< 0.74 ug/l	0.74	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,4-Dinitrotoluene	< 0.51 ug/l	0.51	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,6-Dinitrotoluene	< 0.83 ug/l	0.83	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
1,2-Diphenylhydrazine	< 0.60 ug/l	0.60	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Fluorene	< 0.99 ug/l	0.99	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Hexachlorobenzene	< 1.1 ug/l	1.1	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Hexachlorobutadiene	< 0.71 ug/l	0.71	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Hexachlorocyclopentadiene	< 0.74 ug/l	0.74	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Hexachloroethane	< 0.73 ug/l	0.73	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Indeno(1,2,3-cd)pyrene	< 1.2 ug/l	1.2	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Isophorone	< 0.90 ug/l	0.90	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
n-Nitrosodi-n-propylamine	< 0.90 ug/l	0.90	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
n-Nitrosodimethylamine	< 2.5 ug/l	2.5	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
n-Nitrosodiphenylamine	< 1.1 ug/l	1.1	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	R
Naphthalene	< 0.87 ug/l	0.87	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Nitrobenzene	< 0.85 ug/l	0.85	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2-Nitrophenol	< 0.82 ug/l	0.82	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
4-Nitrophenol	< 0.70 ug/l	0.70	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
p-Chloro-m-cresol	< 1.7 ug/l	1.7	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Pentachlorophenol	< 0.94 ug/l	0.94	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Phenanthrene	< 0.93 ug/l	0.93	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Phenol	< 2.6 ug/l	2.6	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Pyrene	< 0.56 ug/l	0.56	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
1,2,4-Trichlorobenzene	< 0.87 ug/l	0.87	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,4,6-Trichlorophenol	< 1.4 ug/l	1.4	5.0	B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	88.4 %			B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2-Fluorophenol (20.0-110%)	22.9 %			B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Nitrobenzene-D5 (40.0-110%)	79.8 %			B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Terphenyl-D14 (50.0-135%)	72.9 %			B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
2,4,6-Tribromophenol (40.0-125%)	40.4 %			B9091-1	30Jul14 1450 by 301	31Jul14 1025 by 301	
Volatile Organic Compounds							
Acrolein	< 0.78 ug/l	0.78	25	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Acrylonitrile	< 0.63 ug/l	0.63	25	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Benzene	< 0.12 ug/l	0.12	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Bromoform	< 0.26 ug/l	0.26	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Carbon tetrachloride	< 0.21 ug/l	0.21	2.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Chlorobenzene	< 0.11 ug/l	0.11	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Chlorodibromomethane	< 0.11 ug/l	0.11	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Chloroethane	< 0.35 ug/l	0.35	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
2-Chloroethyl vinyl ether	< 0.24 ug/l	0.24	10	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Chloroform	< 0.16 ug/l	0.16	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,2-Dichlorobenzene	< 0.17 ug/l	0.17	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,3-Dichlorobenzene	< 0.14 ug/l	0.14	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,4-Dichlorobenzene	< 0.19 ug/l	0.19	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Dichlorobromomethane	< 0.17 ug/l	0.17	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,1-Dichloroethane	< 0.15 ug/l	0.15	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,2-Dichloroethane	< 0.21 ug/l	0.21	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,1-Dichloroethylene	< 0.24 ug/l	0.24	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
trans-1,2-Dichloroethylene	< 0.20 ug/l	0.20	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,2-Dichloropropane	< 0.19 ug/l	0.19	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,3-Dichloropropylene	< 0.20 ug/l	0.20	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Ethylbenzene	< 0.12 ug/l	0.12	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Methyl bromide(Bromomethane)	< 0.16 ug/l	0.16	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Methyl chloride(Chloromethane)	< 0.19 ug/l	0.19	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Methylene chloride	< 0.25 ug/l	0.25	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,1,2,2-Tetrachloroethane	< 0.20 ug/l	0.20	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Tetrachloroethylene	< 0.18 ug/l	0.18	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Toluene	< 0.16 ug/l	0.16	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,1,1-Trichloroethane	< 0.13 ug/l	0.13	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
1,1,2-Trichloroethane	< 0.19 ug/l	0.19	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Trichloroethylene	< 0.22 ug/l	0.22	5.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Vinyl chloride	< 0.47 ug/l	0.47	2.0	V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	96.9 %			V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Dibromofluoromethane (85.0-115%)	91.7 %			V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Toluene-D8 (85.0-120%)	101 %			V8567-1	31Jul14 1105 by 301	31Jul14 1341 by 301	
Organochlorine Pesticides and PCBs							
Aldrin	< 0.0050 ug/l	0.0050	0.010	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
alpha-BHC	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
alpha-Endosulfan	< 0.0050 ug/l	0.0050	0.010	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
beta-BHC	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
beta-Endosulfan	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Chlordane	< 0.10 ug/l	0.10	0.10	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Chlorpyrifos	< 0.0050 ug/l	0.0050	0.050	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
4,4'-DDD	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
4,4'-DDE	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
4,4'-DDT	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
delta-BHC	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Dieldrin	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Endosulfan sulfate	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Endrin	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Endrin aldehyde	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
gamma-BHC	< 0.0050 ug/l	0.0050	0.020	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Heptachlor	< 0.0050 ug/l	0.0050	0.010	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Heptachlor epoxide	< 0.0050 ug/l	0.0050	0.010	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
PCB 1016	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Organochlorine Pesticides and PCBs							
PCB 1221	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
PCB 1232	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
PCB 1242	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
PCB 1248	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
PCB 1254	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
PCB 1260	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Toxaphene	< 0.20 ug/l	0.20	0.20	G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Organochlorine Pesticides and PCBs Surrogates:							
Decachlorobiphenyl (30.0-135%)	68.0 %			G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Tetrachloro-m-xylene (25.0-140%)	81.2 %			G9789-1	30Jul14 1613 by 306	31Jul14 1202 by 306	
Organochlorine Pesticides							
Aldrin	< 0.33 ug/Kg	0.33	0.67	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
alpha-BHC	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
alpha-Endosulfan	< 0.33 ug/Kg	0.33	0.67	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
beta-BHC	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
beta-Endosulfan	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Chlordane	< 6.7 ug/Kg	6.7	6.7	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
4,4'-DDD	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
4,4'-DDE	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
4,4'-DDT	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
delta-BHC	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Dieldrin	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Endosulfan sulfate	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Endrin	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Endrin aldehyde	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
gamma-BHC	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Heptachlor	< 0.33 ug/Kg	0.33	0.67	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Heptachlor epoxide	< 0.33 ug/Kg	0.33	0.67	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Methoxychlor	< 0.33 ug/Kg	0.33	1.4	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Toxaphene	< 14 ug/Kg	14	14	G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Organochlorine Pesticides Surrogates:							
Decachlorobiphenyl (55.0-130%)	58.0 %			G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Tetrachloro-m-xylene (70.0-125%)	70.9 %			G9791-1	31Jul14 1345 by 306	04Aug14 1729 by 306	
Polychlorinated Biphenyls (PCBs)							
PCB 1016	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
PCB 1221	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
PCB 1232	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
PCB 1242	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
PCB 1248	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
PCB 1254	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
PCB 1260	< 0.013 mg/Kg	0.013	0.013	G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	
Polychlorinated Biphenyls (PCBs) Surrogates:							
Decachlorobiphenyl (36.7-138%)	62.7 %			G9787-1	30Jul14 1425 by 306	31Jul14 0417 by 301	



8600 Kanis Road
 Little Rock, AR 72204-2322
 (501) 224-5060
 FAX (501) 224-5072

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 01 OF 01

Client: <u>SPRINGDALE WATER UTILITIES</u>			PO No. <u>001813700</u>		NO OF BOTTLES	ANALYSES REQUESTED										AIC CONTROL NO: <u>181068</u>	
Project Reference: <u>TABLE II, TABLE III</u>			SAMPLE MATRIX			VOA	PP METALS + MO (EXCLUDE Hg)	BNA 625	PEST 608	T. III PP METALS + MO (T.M.D. + Hg)	T. CYANIDE	T. PHENOLICS					
Project Manager: <u>BRAD STEWART</u>			G R A P	C O M P	W A T E R	S O I L	S E D I M E N T S	VOA	PP METALS + MO (EXCLUDE Hg)	BNA 625	PEST 608	T. III PP METALS + MO (T.M.D. + Hg)	T. CYANIDE	T. PHENOLICS			Carrier: <u>Fed Ex</u>
Sampled By: <u>OPERATIONS + BIOSOLIDS STAFF</u>																	Received on Ice (4°C)? <u>(YES) 0.7 CNO</u>
AIC No.	Sample Identification	Date/Time Collected															Remarks
①	PLANT EFFLUENT	0000, 0600, 1200, 1800 07/24/14	✓		✓		4	✓									
②	PLANT EFFLUENT	0000 - 2400 07/24/14		✓	✓		1	✓									
③	PLANT EFFLUENT	0000 - 0000 07/24/14		✓	✓		4			✓							Time AS: 0000 - 2400 L L L
④	PLANT EFFLUENT	0000 - 0000 07/24/14		✓	✓		4			✓							
⑤	BELT PRESS INFLUENT	07/25/14	✓			✓	1				✓						
⑥	PLANT EFFLUENT	0000, 0600, 1200, 1800 07/24/14		✓	✓		1						✓				
⑦	PLANT EFFLUENT	0000, 0600, 1200, 1800 07/24/14		✓	✓		1							✓			
		Container Type						✓	P	G	G	G	P	G			Field pH calibration on _____ @ _____
		Preservative						H	N	NO	NO	NO	B	S			Buffer: _____
G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate			NO = none S = Sulfuric acid pH2 N = Nitric acid pH2			B = NaOH to pH12			Z = Zinc acetate								
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS					Relinquished By: <u>Raduel J.</u>		Date/Time: <u>07/28/14 - 0910</u>		Received By:		Date/Time:						
Expedited results requested by: <u>N/A</u>					Relinquished By:		Date/Time:		Received in Lab By: <u>Jimmy D.</u>		Date/Time: <u>7/29/14</u>						
Who should AIC contact with questions: <u>BRAD STEWART</u>					Comments: INCLUDE MERCURY ON BELT PRESS INFLUENT. EXCLUDE MERCURY ON PLANT INFLUENT + EFFLUENT ONLY.												
Phone: <u>479-756-3659</u> Fax: <u>479-750-7195</u>																	
Report Attention to: <u>BRAD STEWART</u>																	
Report Address to: <u>P.O. BOX 769 SPRINGDALE, AR 72762</u>																	



Springdale Water Utilities
ATTN: Mr. Brad Stewart
Post Office Box 769
Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on July 23, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Springdale Water Utilities
ATTN: Mr. Brad Stewart
bstewart@springdalewater.com



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

SAMPLE INFORMATION

Project Description:

Three (3) water sample(s) received on July 23, 2014
Table II, Table III
P.O. No. 0018139 00

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
180921-1	Influent 07/21-22/14 1100, 1700, 2300, 0600	22-Jul-2014 0600	
180921-2	Influent 07/21/14 1100, 1700, 2300 07/22/14 0600	22-Jul-2014 0600	
180921-3	Influent 07/21-22/14 1100-0900	22-Jul-2014 0900	

Qualifiers:

- Q Analyte is not within quality control limits
- R n-Nitrosodiphenylamine cannot be separated from diphenylamine

Case Narrative:

Matrix spike for batch B9081 was not performed on any sample associated with AIC Control No. 180921.

Equivalent composite of (4) samples was prepared for Control No. 180921-2.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", (SM).
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 180921-1

Sample Identification: Influent 07/21-22/14 1100, 1700, 2300, 0600

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	150	5	ug/l	
Prep: 24-Jul-2014 0821 by 308	Analyzed: 24-Jul-2014 1135 by 308		Batch: W48577	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 24-Jul-2014 0833 by 308	Analyzed: 24-Jul-2014 1410 by 308		Batch: W48578	

AIC No. 180921-2

Sample Identification: Influent 07/21/14 1100, 1700, 2300 07/22/14 0600

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624				
Acrolein EPA 624	< 50	50	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Acrylonitrile EPA 624	< 20	20	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Benzene EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Bromoform EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Carbon tetrachloride EPA 624	< 2.0	2.0	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Chlorobenzene EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Chlorodibromomethane EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Chloroethane EPA 624	< 50	50	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
2-Chloroethyl vinyl ether EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Chloroform EPA 624	11	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
1,2-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
1,3-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
1,4-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
Dichlorobromomethane EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
1,1-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	
1,2-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 24-Jul-2014 0951 by 301	Analyzed: 24-Jul-2014 2108 by 301		Batch: V8562	



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ANALYTICAL RESULTS

AIC No. 180921-2 (Continued)

Sample Identification: Influent 07/21/14 1100, 1700, 2300 07/22/14 0600

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
1,1-Dichloroethylene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
trans-1,2-Dichloroethylene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
1,2-Dichloropropane EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
1,3-Dichloropropylene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Ethylbenzene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Methyl bromide(Bromomethane) EPA 624	< 50 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	50	ug/l Batch: V8562	
Methyl chloride(Chloromethane) EPA 624	< 50 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	50	ug/l Batch: V8562	
Methylene chloride EPA 624	< 20 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	20	ug/l Batch: V8562	
1,1,2,2-Tetrachloroethane EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Tetrachloroethylene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Toluene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
1,1,1-Trichloroethane EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
1,1,2-Trichloroethane EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Trichloroethylene EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Vinyl chloride EPA 624	< 10 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301	10	ug/l Batch: V8562	
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 624	99.6 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301		% Batch: V8562	
Surrogate: Dibromofluoromethane (85.0-115%) EPA 624	99.3 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301		% Batch: V8562	
Surrogate: Toluene-D8 (85.0-120%) EPA 624	99.1 Prep: 24-Jul-2014 0951 by 301 Analyzed: 24-Jul-2014 2108 by 301		% Batch: V8562	



Springdale Water Utilities
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ANALYTICAL RESULTS

AIC No. 180921-3

Sample Identification: Influent 07/21-22/14 1100-0900

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8 Prep: 24-Jul-2014 1021 by 305	< 60 Analyzed: 24-Jul-2014 1609 by 305	60	ug/l Batch: S37118	
Total Recoverable Arsenic EPA 200.8 Prep: 24-Jul-2014 1021 by 305	2.2 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Beryllium EPA 200.8 Prep: 24-Jul-2014 1021 by 305	< 0.5 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Cadmium EPA 200.8 Prep: 24-Jul-2014 1021 by 305	0.81 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Chromium EPA 200.8 Prep: 24-Jul-2014 1021 by 305	< 10 Analyzed: 24-Jul-2014 1609 by 305	10	ug/l Batch: S37118	
Total Recoverable Copper EPA 200.8 Prep: 24-Jul-2014 1021 by 305	26 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Lead EPA 200.8 Prep: 24-Jul-2014 1021 by 305	3.3 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Molybdenum EPA 200.8 Prep: 24-Jul-2014 1021 by 305	< 8 Analyzed: 24-Jul-2014 1609 by 305	8	ug/l Batch: S37118	
Total Recoverable Nickel EPA 200.8 Prep: 24-Jul-2014 1021 by 305	8.5 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Selenium EPA 200.8 Prep: 24-Jul-2014 1021 by 305	< 5 Analyzed: 24-Jul-2014 1609 by 305	5	ug/l Batch: S37118	
Total Recoverable Silver EPA 200.8 Prep: 24-Jul-2014 1021 by 305	< 0.5 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Thallium EPA 200.8 Prep: 24-Jul-2014 1021 by 305	2.3 Analyzed: 24-Jul-2014 1609 by 305	0.5	ug/l Batch: S37118	
Total Recoverable Zinc EPA 200.8 Prep: 24-Jul-2014 1021 by 305	98 Analyzed: 24-Jul-2014 1609 by 305	20	ug/l Batch: S37118	
Base/Neutral and Acid Compounds By EPA 625				
Acenaphthene EPA 625 Prep: 23-Jul-2014 1437 by 306	< 10 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l Batch: B9081	
Acenaphthylene EPA 625 Prep: 23-Jul-2014 1437 by 306	< 10 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l Batch: B9081	
Anthracene EPA 625 Prep: 23-Jul-2014 1437 by 306	< 10 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l Batch: B9081	
Benzidine EPA 625 Prep: 23-Jul-2014 1437 by 306	< 50 Analyzed: 24-Jul-2014 2222 by 301	50	ug/l Batch: B9081	
Benzo(a)anthracene EPA 625 Prep: 23-Jul-2014 1437 by 306	< 5.0 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l Batch: B9081	
Benzo(a)pyrene EPA 625 Prep: 23-Jul-2014 1437 by 306	< 5.0 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l Batch: B9081	
Benzo(g,h,i)perylene EPA 625 Prep: 23-Jul-2014 1437 by 306	< 20 Analyzed: 24-Jul-2014 2222 by 301	20	ug/l Batch: B9081	



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ANALYTICAL RESULTS

AIC No. 180921-3 (Continued)

Sample Identification: Influent 07/21-22/14 1100-0900

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Benzo(k)fluoranthene EPA 625	< 5.0 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l	Batch: B9081
3,4-Benzofluoranthene EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Bis(2-chloroethoxy)methane EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Bis(2-chloroethyl)ether EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Bis(2-chloroisopropyl)ether EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Bis(2-ethylhexyl)phthalate EPA 625	11 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
4-Bromophenyl phenyl ether EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Butylbenzyl phthalate EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
2-Chloronaphthalene EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
2-Chlorophenol EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
4-Chlorophenyl phenyl ether EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Chrysene EPA 625	< 5.0 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l	Batch: B9081
Di-n-butyl phthalate EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Di-n-octyl phthalate EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Dibenz(a,h)anthracene EPA 625	< 5.0 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l	Batch: B9081
3,3'-Dichlorobenzidine EPA 625	< 5.0 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l	Batch: B9081
2,4-Dichlorophenol EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Diethyl phthalate EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Dimethyl phthalate EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
2,4-Dimethylphenol EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081



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ANALYTICAL RESULTS

AIC No. 180921-3 (Continued)
Sample Identification: Influent 07/21-22/14 1100-0900

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
4,6-Dinitro-o-cresol EPA 625	< 50	50	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
2,4-Dinitrophenol EPA 625	< 50	50	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
2,4-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
2,6-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
1,2-Diphenylhydrazine EPA 625	< 20	20	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Fluorene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Hexachlorobenzene EPA 625	< 5.0	5.0	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Hexachlorobutadiene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Hexachlorocyclopentadiene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Hexachloroethane EPA 625	< 20	20	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Indeno(1,2,3-cd)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Isophorone EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
n-Nitrosodi-n-propylamine EPA 625	< 20	20	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
n-Nitrosodimethylamine EPA 625	< 50	50	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
n-Nitrosodiphenylamine EPA 625	< 20	20	ug/l	R
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Naphthalene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
Nitrobenzene EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
2-Nitrophenol EPA 625	< 20	20	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
4-Nitrophenol EPA 625	< 50	50	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	
p-Chloro-m-cresol EPA 625	< 10	10	ug/l	
Prep: 23-Jul-2014 1437 by 306	Analyzed: 24-Jul-2014 2222 by 301		Batch: B9081	



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ANALYTICAL RESULTS

AIC No. 180921-3 (Continued)

Sample Identification: Influent 07/21-22/14 1100-0900

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Pentachlorophenol EPA 625	< 5.0 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	5.0	ug/l	Batch: B9081
Phenanthrene EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Phenol EPA 625	42 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Pyrene EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
1,2,4-Trichlorobenzene EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
2,4,6-Trichlorophenol EPA 625	< 10 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301	10	ug/l	Batch: B9081
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 625	54.4 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301		%	Batch: B9081
Surrogate: 2-Fluorophenol (20.0-110%) EPA 625	38.8 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301		%	Batch: B9081
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 625	47.8 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301		%	Batch: B9081
Surrogate: Terphenyl-D14 (50.0-135%) EPA 625	50.6 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301		%	Batch: B9081
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 625	59.4 Prep: 23-Jul-2014 1437 by 306 Analyzed: 24-Jul-2014 2222 by 301		%	Batch: B9081
Organochlorine Pesticides and PCBs By EPA 608				
Aldrin EPA 608	< 0.010 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.010	ug/l	Batch: G9780
alpha-BHC EPA 608	< 0.050 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.050	ug/l	Batch: G9780
alpha-Endosulfan EPA 608	< 0.010 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.010	ug/l	Batch: G9780
beta-BHC EPA 608	< 0.050 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.050	ug/l	Batch: G9780
beta-Endosulfan EPA 608	< 0.020 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.020	ug/l	Batch: G9780
Chlordane EPA 608	< 0.20 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.20	ug/l	Batch: G9780
Chlorpyrifos EPA 608	< 0.070 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.070	ug/l	Batch: G9780
4,4'-DDD EPA 608	< 0.10 Prep: 24-Jul-2014 0921 by 295 Analyzed: 24-Jul-2014 2013 by 306	0.10	ug/l	Batch: G9780



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ANALYTICAL RESULTS

AIC No. 180921-3 (Continued)

Sample Identification: Influent 07/21-22/14 1100-0900

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides and PCBs By EPA 608 (Continued)				
4,4'-DDE EPA 608	< 0.10	0.10	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
4,4'-DDT EPA 608	< 0.020	0.020	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
delta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Dieldrin EPA 608	< 0.020	0.020	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Endosulfan sulfate EPA 608	< 0.10	0.10	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Endrin EPA 608	< 0.020	0.020	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Endrin aldehyde EPA 608	< 0.10	0.10	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
gamma-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Heptachlor EPA 608	< 0.010	0.010	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Heptachlor epoxide EPA 608	< 0.010	0.010	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1016 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1221 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1232 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1242 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1248 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1254 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
PCB 1260 EPA 608	< 0.20	0.20	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Toxaphene EPA 608	< 0.30	0.30	ug/l	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 608	34.9		%	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 608	99.7		%	
Prep: 24-Jul-2014 0921 by 295	Analyzed: 24-Jul-2014 2013 by 306		Batch: G9780	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds								
Acenaphthene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Acenaphthylene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Anthracene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Benzidine	180913-1	< 25 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 25 ug/l	0.00	0.00	23Jul14 1438 by 306	24Jul14 1920 by 301		
Benzo(a)anthracene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Benzo(a)pyrene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Benzo(g,h,i)perylene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Benzo(k)fluoranthene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
3,4-Benzofluoranthene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Bis(2-chloroethoxy)methane	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Bis(2-chloroethyl)ether	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Bis(2-chloroisopropyl)ether	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Bis(2-ethylhexyl)phthalate	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
4-Bromophenyl phenyl ether	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Butylbenzyl phthalate	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2-Chloronaphthalene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2-Chlorophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
4-Chlorophenyl phenyl ether	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Chrysene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Di-n-butyl phthalate	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Di-n-octyl phthalate	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Dibenz(a,h)anthracene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
3,3'-Dichlorobenzidine	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
2,4-Dichlorophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Diethyl phthalate	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Dimethyl phthalate	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2,4-Dimethylphenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
4,6-Dinitro-o-cresol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2,4-Dinitrophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2,4-Dinitrotoluene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2,6-Dinitrotoluene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
1,2-Diphenylhydrazine	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Fluorene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Hexachlorobenzene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Hexachlorobutadiene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Hexachlorocyclopentadiene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Hexachloroethane	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Indeno(1,2,3-cd)pyrene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Isophorone	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
n-Nitrosodi-n-propylamine	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
n-Nitrosodimethylamine	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
n-Nitrosodiphenylamine	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		R
Naphthalene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		R
Nitrobenzene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2-Nitrophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
4-Nitrophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
p-Chloro-m-cresol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)								
Pentachlorophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Phenanthrene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Phenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
Pyrene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
1,2,4-Trichlorobenzene	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2,4,6-Trichlorophenol	180913-1	< 5.0 ug/l			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	< 5.0 ug/l	0.00	30.0	23Jul14 1438 by 306	24Jul14 1920 by 301		
2-Fluorobiphenyl (50.0-110%)	180913-1	76.4 %			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	89.8 %			23Jul14 1438 by 306	24Jul14 1920 by 301		
2-Fluorophenol (20.0-110%)	180913-1	56.6 %			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	57.4 %			23Jul14 1438 by 306	24Jul14 1920 by 301		
Nitrobenzene-D5 (40.0-110%)	180913-1	64.8 %			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	74.9 %			23Jul14 1438 by 306	24Jul14 1920 by 301		
Terphenyl-D14 (50.0-135%)	180913-1	65.8 %			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	73.2 %			23Jul14 1438 by 306	24Jul14 1920 by 301		
2,4,6-Tribromophenol (40.0-125%)	180913-1	85.7 %			23Jul14 1437 by 306	24Jul14 2032 by 301		
	Batch: B9081 Duplicate	71.0 %			23Jul14 1438 by 306	24Jul14 1920 by 301		
Organochlorine Pesticides and PCBs								
Aldrin	180913-1	< 0.010 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.010 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
alpha-BHC	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
alpha-Endosulfan	180913-1	< 0.010 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.010 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
beta-BHC	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
beta-Endosulfan	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
Chlorpyrifos	180913-1	< 0.050 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.050 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
4,4'-DDD	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
4,4'-DDE	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
4,4'-DDT	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
delta-BHC	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
Dieldrin	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		
Endosulfan sulfate	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780 Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306		



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Organochlorine Pesticides and PCBs (Continued)								
Endrin	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306	
Endrin aldehyde	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306	
gamma-BHC	180913-1	< 0.020 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	< 0.020 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306	
Heptachlor	180913-1	< 0.010 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	< 0.010 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306	
Heptachlor epoxide	180913-1	< 0.010 ug/l			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	< 0.010 ug/l	0.00	30.0	24Jul14 0921 by 295	24Jul14 1706 by 306	
Decachlorobiphenyl (30.0-135%)	180913-1	55.1 %			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	79.6 %		24Jul14 0921 by 295	24Jul14 1706 by 306		
Tetrachloro-m-xylene (25.0-140%)	180913-1	47.8 %			24Jul14 0921 by 295	24Jul14 1720 by 306		
	Batch: G9780	Duplicate	72.2 %		24Jul14 0921 by 295	24Jul14 1706 by 306		
Volatile Organic Compounds								
Acrolein	180921-2	< 50 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 50 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Acrylonitrile	180921-2	< 20 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 20 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Benzene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Bromoform	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Carbon tetrachloride	180921-2	< 2.0 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 2.0 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Chlorobenzene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Chlorodibromomethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Chloroethane	180921-2	< 50 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 50 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
2-Chloroethyl vinyl ether	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	20.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Chloroform	180921-2	11 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	10 ug/l	3.81	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
1,2-Dichlorobenzene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
1,3-Dichlorobenzene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
1,4-Dichlorobenzene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
Dichlorobromomethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
1,1-Dichloroethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	
1,2-Dichloroethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562	Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)								
1,1-Dichloroethylene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
trans-1,2-Dichloroethylene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
1,2-Dichloropropane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
1,3-Dichloropropylene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Ethylbenzene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Methyl bromide(Bromomethane)	180921-2	< 50 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 50 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Methyl chloride(Chloromethane)	180921-2	< 50 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 50 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Methylene chloride	180921-2	< 20 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 20 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
1,1,2,2-Tetrachloroethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Tetrachloroethylene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Toluene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
1,1,1-Trichloroethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
1,1,2-Trichloroethane	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Trichloroethylene	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
Vinyl chloride	180921-2	< 10 ug/l			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	< 10 ug/l	0.00	30.0	24Jul14 0951 by 301	24Jul14 2159 by 301		
4-Bromofluorobenzene (75.0-120%)	180921-2	99.6 %			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	101 %			24Jul14 0951 by 301	24Jul14 2159 by 301		
Dibromofluoromethane (85.0-115%)	180921-2	99.3 %			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	100 %			24Jul14 0951 by 301	24Jul14 2159 by 301		
Toluene-D8 (85.0-120%)	180921-2	99.1 %			24Jul14 0951 by 301	24Jul14 2108 by 301		
	Batch: V8562 Duplicate	100 %			24Jul14 0951 by 301	24Jul14 2159 by 301		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	92.3	85.0-115			W48577	24Jul14 0821 by 308	24Jul14 1135 by 308		
Total Cyanide	0.1 mg/l	91.7	85.0-115			W48578	24Jul14 0833 by 308	24Jul14 1359 by 308		
Total Recoverable Antimony	0.05 mg/l	96.2	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Arsenic	0.05 mg/l	98.9	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Beryllium	0.05 mg/l	101	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Cadmium	0.05 mg/l	95.5	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Chromium	0.05 mg/l	102	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Copper	0.05 mg/l	98.4	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Lead	0.05 mg/l	100	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Molybdenum	0.05 mg/l	100	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Nickel	0.05 mg/l	99.0	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Selenium	0.05 mg/l	98.8	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Silver	0.02 mg/l	98.7	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Thallium	0.05 mg/l	101	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Total Recoverable Zinc	0.05 mg/l	98.5	85.0-115			S37118	24Jul14 1021 by 305	24Jul14 1508 by 305		
Base/Neutral and Acid Compounds										
Acenaphthene	40 ug/l	87.9	45.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Acenaphthylene	40 ug/l	76.2	50.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Anthracene	40 ug/l	84.2	55.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Benzidine	100 ug/l	0.00	0.00-61.1			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Benzo(a)anthracene	40 ug/l	91.6	55.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Benzo(a)pyrene	40 ug/l	92.1	55.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Benzo(g,h,i)perylene	40 ug/l	107	40.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Benzo(k)fluoranthene	40 ug/l	83.4	45.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
3,4-Benzofluoranthene	40 ug/l	90.7	45.0-120			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Bis(2-chloroethoxy)methane	40 ug/l	81.4	45.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Bis(2-chloroethyl)ether	40 ug/l	82.2	35.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Bis(2-chloroisopropyl)ether	40 ug/l	85.8	25.0-130			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Bis(2-ethylhexyl)phthalate	40 ug/l	93.9	40.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
4-Bromophenyl phenyl ether	40 ug/l	78.3	50.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Butylbenzyl phthalate	40 ug/l	93.4	45.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2-Chloronaphthalene	40 ug/l	82.4	50.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2-Chlorophenol	40 ug/l	80.1	35.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
4-Chlorophenyl phenyl ether	40 ug/l	81.3	50.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Chrysene	40 ug/l	83.6	55.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Di-n-butyl phthalate	40 ug/l	101	55.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Di-n-octyl phthalate	40 ug/l	87.7	35.0-135			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Dibenz(a,h)anthracene	40 ug/l	98.1	40.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
1,2-Dichlorobenzene	40 ug/l	82.4	35.0-100			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
1,3-Dichlorobenzene	40 ug/l	80.8	30.0-100			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
1,4-Dichlorobenzene	40 ug/l	81.6	30.0-100			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
3,3'-Dichlorobenzidine	40 ug/l	99.8	20.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,4-Dichlorophenol	40 ug/l	78.6	50.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Diethyl phthalate	40 ug/l	96.1	40.0-120			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Dimethyl phthalate	40 ug/l	95.7	25.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,4-Dimethylphenol	40 ug/l	54.3	30.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
4,6-Dinitro-o-cresol	40 ug/l	130	40.0-130			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,4-Dinitrophenol	40 ug/l	113	15.0-140			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,4-Dinitrotoluene	40 ug/l	88.2	50.0-120			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,6-Dinitrotoluene	40 ug/l	86.1	50.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
1,2-Diphenylhydrazine	40 ug/l	84.9	55.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Fluorene	40 ug/l	83.8	50.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Hexachlorobenzene	40 ug/l	76.4	50.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Hexachlorobutadiene	40 ug/l	71.7	25.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Hexachlorocyclopentadiene	40 ug/l	95.1	35.0-102			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Hexachloroethane	40 ug/l	81.0	30.0-100			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Indeno(1,2,3-cd)pyrene	40 ug/l	113	45.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Isophorone	40 ug/l	75.6	50.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
n-Nitrosodi-n-propylamine	40 ug/l	88.4	35.0-130			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
n-Nitrosodimethylamine	40 ug/l	64.8	25.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
n-Nitrosodiphenylamine	40 ug/l	82.5	50.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Naphthalene	40 ug/l	75.4	40.0-100			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Nitrobenzene	40 ug/l	77.3	45.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2-Nitrophenol	40 ug/l	87.6	40.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
4-Nitrophenol	40 ug/l	67.3	0.00-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
p-Chloro-m-cresol	40 ug/l	85.5	45.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Pentachlorophenol	40 ug/l	103	40.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Phenanthrene	40 ug/l	94.5	50.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Phenol	40 ug/l	55.4	0.00-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Pyrene	40 ug/l	77.6	50.0-130			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
1,2,4-Trichlorobenzene	40 ug/l	77.4	35.0-105			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,4,6-Trichlorophenol	40 ug/l	85.1	50.0-115			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	87.9	50.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2-Fluorophenol	40 ug/l	73.4	20.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Nitrobenzene-D5	40 ug/l	81.9	40.0-110			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Terphenyl-D14	40 ug/l	82.3	50.0-135			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
2,4,6-Tribromophenol	40 ug/l	93.4	40.0-125			B9081	23Jul14 1438 by 306	24Jul14 1811 by 301		
Volatile Organic Compounds										
Acrolein	100 ug/l	93.8	53.1-123			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Acrylonitrile	100 ug/l	94.8	58.0-137			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Benzene	20 ug/l	99.4	80.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Bromodichloromethane	20 ug/l	99.4	75.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Bromoform	20 ug/l	97.7	70.0-130			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Bromomethane	20 ug/l	106	30.0-145			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Carbon tetrachloride	20 ug/l	101	65.0-140			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Chlorobenzene	20 ug/l	101	80.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Chloroethane	20 ug/l	99.4	60.0-135			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
2-Chloroethyl vinyl ether	40 ug/l	100	60.3-135			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Chloroform	20 ug/l	101	65.0-135			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Chloromethane	20 ug/l	98.0	40.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Dibromochloromethane	20 ug/l	99.6	60.0-135			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,2-Dichlorobenzene	20 ug/l	102	70.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,3-Dichlorobenzene	20 ug/l	102	75.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,4-Dichlorobenzene	20 ug/l	102	75.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,1-Dichloroethane	20 ug/l	95.6	70.0-135			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,2-Dichloroethane	20 ug/l	105	70.0-130			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,1-Dichloroethene	20 ug/l	96.9	70.0-130			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
trans-1,2-Dichloroethene	20 ug/l	95.3	60.0-140			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,2-Dichloropropane	20 ug/l	99.0	75.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,3-Dichloropropylene	20 ug/l	97.1	70.0-130			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Ethylbenzene	20 ug/l	98.1	75.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Methylene chloride	20 ug/l	102	55.0-140			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,1,2,2-Tetrachloroethane	20 ug/l	102	65.0-130			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Tetrachloroethene	20 ug/l	98.4	45.0-150			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Toluene	20 ug/l	98.9	75.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,1,1-Trichloroethane	20 ug/l	95.2	65.0-130			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
1,1,2-Trichloroethane	20 ug/l	101	75.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Trichloroethene	20 ug/l	99.5	70.0-125			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Vinyl chloride	20 ug/l	105	50.0-145			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	98.3	75.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Dibromofluoromethane	50 ug/l	101	85.0-115			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Toluene-D8	50 ug/l	100	85.0-120			V8562	24Jul14 0951 by 301	24Jul14 1755 by 301		
Organochlorine Pesticides and PCBs										
Aldrin	10 ug/l	89.9	25.0-140			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
alpha-BHC	10 ug/l	92.8	60.0-130			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
alpha-Endosulfan	10 ug/l	93.1	50.0-110			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
beta-BHC	10 ug/l	99.7	65.0-125			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Organochlorine Pesticides and PCBs (Continued)										
beta-Endosulfan	10 ug/l	103	30.0-130			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Chlorpyrifos	10 ug/l	107	62.4-127			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
4,4'-DDD	10 ug/l	100	25.0-150			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
4,4'-DDE	10 ug/l	97.8	35.0-140			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
4,4'-DDT	10 ug/l	113	45.0-140			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
delta-BHC	10 ug/l	102	45.0-135			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Dieldrin	10 ug/l	99.5	60.0-130			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Endosulfan sulfate	10 ug/l	109	55.0-135			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Endrin	10 ug/l	102	55.0-135			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Endrin aldehyde	10 ug/l	112	55.0-135			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
gamma-BHC	10 ug/l	98.2	25.0-135			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Heptachlor	10 ug/l	91.3	40.0-130			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Heptachlor epoxide	10 ug/l	88.9	60.0-130			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Organochlorine Pesticides and PCBs Surrogates:										
Decachlorobiphenyl	20 ug/l	88.2	30.0-135			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		
Tetrachloro-m-xylene	20 ug/l	94.6	25.0-140			G9780	24Jul14 0921 by 295	24Jul14 1638 by 306		

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	180891-1	0.1 mg/l	99.1	80.0-120	W48577	24Jul14 0821 by 308	24Jul14 1135 by 308		
	180891-1	0.1 mg/l	98.4	80.0-120	W48577	24Jul14 0821 by 308	24Jul14 1135 by 308		
	Relative Percent Difference:		0.660	10.0		W48577			
Total Cyanide	180913-1	0.1 mg/l	90.2	75.0-125	W48578	24Jul14 0833 by 308	24Jul14 1403 by 308		
	180913-1	0.1 mg/l	80.9	75.0-125	W48578	24Jul14 0833 by 308	24Jul14 1405 by 308		
	Relative Percent Difference:		10.9	20.0		W48578			
Total Recoverable Antimony	180873-1	0.05 mg/l	95.8	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	96.2	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		0.360	20.0		S37118			
Total Recoverable Arsenic	180873-1	0.05 mg/l	109	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	107	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.42	20.0		S37118			
Total Recoverable Beryllium	180873-1	0.05 mg/l	111	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	110	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.38	20.0		S37118			
Total Recoverable Cadmium	180873-1	0.05 mg/l	101	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	99.1	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.96	20.0		S37118			
Total Recoverable Chromium	180873-1	0.05 mg/l	102	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	104	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.47	20.0		S37118			
Total Recoverable Copper	180873-1	0.05 mg/l	101	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	103	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.23	20.0		S37118			
Total Recoverable Lead	180873-1	0.05 mg/l	102	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	102	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		0.488	20.0		S37118			
Total Recoverable Molybdenum	180873-1	0.05 mg/l	101	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	102	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.19	20.0		S37118			
Total Recoverable Nickel	180873-1	0.05 mg/l	103	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	104	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.11	20.0		S37118			
Total Recoverable Selenium	180873-1	0.05 mg/l	120	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	115	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		3.98	20.0		S37118			
Total Recoverable Silver	180873-1	0.02 mg/l	96.8	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.02 mg/l	97.5	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		0.645	20.0		S37118			
Total Recoverable Thallium	180873-1	0.05 mg/l	104	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	103	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		0.819	20.0		S37118			
Total Recoverable Zinc	180873-1	0.05 mg/l	98.5	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1512 by 305		
	180873-1	0.05 mg/l	96.4	75.0-125	S37118	24Jul14 1021 by 305	24Jul14 1516 by 305		
	Relative Percent Difference:		1.39	20.0		S37118			
Base/Neutral and Acid Compounds									
Acenaphthene	180904-1	40 ug/l	75.6	45.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Acenaphthylene	180904-1	40 ug/l	58.0	50.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Anthracene	180904-1	40 ug/l	64.8	55.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Benzidine	180904-1	100 ug/l	0.00	0.00-47.0	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Benzo(a)anthracene	180904-1	40 ug/l	82.0	55.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Benzo(a)pyrene	180904-1	40 ug/l	81.8	55.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Benzo(g,h,i)perylene	180904-1	40 ug/l	95.0	40.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Benzo(k)fluoranthene	180904-1	40 ug/l	78.8	45.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
3,4-Benzofluoranthene	180904-1	40 ug/l	87.5	45.0-120	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Bis(2-chloroethoxy)methane	180904-1	40 ug/l	67.1	45.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Bis(2-chloroethyl)ether	180904-1	40 ug/l	82.0	35.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Bis(2-chloroisopropyl)ether	180904-1	40 ug/l	77.4	25.0-130	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Bis(2-ethylhexyl)phthalate	180904-1	40 ug/l	85.1	40.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
4-Bromophenyl phenyl ether	180904-1	40 ug/l	65.0	50.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Butylbenzyl phthalate	180904-1	40 ug/l	80.0	45.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2-Chloronaphthalene	180904-1	40 ug/l	68.4	50.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2-Chlorophenol	180904-1	40 ug/l	71.2	35.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
4-Chlorophenyl phenyl ether	180904-1	40 ug/l	72.8	50.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Chrysene	180904-1	40 ug/l	73.9	55.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Di-n-butyl phthalate	180904-1	40 ug/l	88.0	55.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Di-n-octyl phthalate	180904-1	40 ug/l	85.2	35.0-135	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Dibenz(a,h)anthracene	180904-1	40 ug/l	90.1	40.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
1,2-Dichlorobenzene	180904-1	40 ug/l	75.8	35.0-100	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
1,3-Dichlorobenzene	180904-1	40 ug/l	72.9	30.0-100	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
1,4-Dichlorobenzene	180904-1	40 ug/l	75.8	30.0-100	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
3,3'-Dichlorobenzidine	180904-1	40 ug/l	4.62	20.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		Q
2,4-Dichlorophenol	180904-1	40 ug/l	66.8	50.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Diethyl phthalate	180904-1	40 ug/l	87.6	40.0-120	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Dimethyl phthalate	180904-1	40 ug/l	86.6	25.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2,4-Dimethylphenol	180904-1	40 ug/l	30.0	30.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
4,6-Dinitro-o-cresol	180904-1	40 ug/l	122	40.0-130	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2,4-Dinitrophenol	180904-1	40 ug/l	136	15.0-140	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2,4-Dinitrotoluene	180904-1	40 ug/l	75.6	50.0-120	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2,6-Dinitrotoluene	180904-1	40 ug/l	72.6	50.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
1,2-Diphenylhydrazine	180904-1	40 ug/l	73.1	55.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Fluorene	180904-1	40 ug/l	79.9	50.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Hexachlorobenzene	180904-1	40 ug/l	64.1	50.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Hexachlorobutadiene	180904-1	40 ug/l	60.0	25.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Hexachlorocyclopentadiene	180904-1	40 ug/l	80.6	24.0-124	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Hexachloroethane	180904-1	40 ug/l	69.4	30.0-100	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Indeno(1,2,3-cd)pyrene	180904-1	40 ug/l	104	45.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Isophorone	180904-1	40 ug/l	63.3	50.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
n-Nitrosodi-n-propylamine	180904-1	40 ug/l	77.5	35.0-130	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
n-Nitrosodimethylamine	180904-1	40 ug/l	51.9	25.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
n-Nitrosodiphenylamine	180904-1	40 ug/l	51.6	50.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Naphthalene	180904-1	40 ug/l	73.6	40.0-100	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Nitrobenzene	180904-1	40 ug/l	65.7	45.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2-Nitrophenol	180904-1	40 ug/l	70.0	40.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
4-Nitrophenol	180904-1	40 ug/l	73.7	0.00-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
p-Chloro-m-cresol	180904-1	40 ug/l	65.0	45.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Pentachlorophenol	180904-1	40 ug/l	115	40.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Phenanthrene	180904-1	40 ug/l	83.6	50.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Phenol	180904-1	40 ug/l	45.4	0.00-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Pyrene	180904-1	40 ug/l	63.2	50.0-130	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
1,2,4-Trichlorobenzene	180904-1	40 ug/l	61.8	35.0-105	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2,4,6-Trichlorophenol	180904-1	40 ug/l	75.9	50.0-115	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	180904-1	40 ug/l	83.6	50.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2-Fluorophenol	180904-1	40 ug/l	44.8	20.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Nitrobenzene-D5	180904-1	40 ug/l	66.5	40.0-110	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Terphenyl-D14	180904-1	40 ug/l	66.4	50.0-135	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
2,4,6-Tribromophenol	180904-1	40 ug/l	87.2	40.0-125	B9081	23Jul14 1438 by 306	24Jul14 1845 by 301		
Volatile Organic Compounds									
Acrolein	180921-2	100 ug/l	72.6	0.00-166	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Acrylonitrile	180921-2	100 ug/l	90.7	43.8-136	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Benzene	180921-2	20 ug/l	90.4	80.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Bromodichloromethane	180921-2	20 ug/l	89.3	75.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Bromoform	180921-2	20 ug/l	81.4	70.0-130	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Bromomethane	180921-2	20 ug/l	59.4	30.0-145	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Carbon tetrachloride	180921-2	20 ug/l	106	65.0-140	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Chlorobenzene	180921-2	20 ug/l	90.0	80.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Chloroethane	180921-2	20 ug/l	96.8	60.0-135	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
2-Chloroethyl vinyl ether	180921-2	40 ug/l	84.3	37.9-154	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Chloroform	180921-2	20 ug/l	89.8	65.0-135	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Chloromethane	180921-2	20 ug/l	95.2	40.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Dibromochloromethane	180921-2	20 ug/l	85.4	60.0-135	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,2-Dichlorobenzene	180921-2	20 ug/l	87.8	70.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,3-Dichlorobenzene	180921-2	20 ug/l	90.1	75.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,4-Dichlorobenzene	180921-2	20 ug/l	98.4	75.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,1-Dichloroethane	180921-2	20 ug/l	88.0	70.0-135	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,2-Dichloroethane	180921-2	20 ug/l	89.6	70.0-130	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,1-Dichloroethene	180921-2	20 ug/l	94.4	70.0-130	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
trans-1,2-Dichloroethene	180921-2	20 ug/l	91.6	60.0-140	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,2-Dichloropropane	180921-2	20 ug/l	88.0	75.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,3-Dichloropropylene	180921-2	20 ug/l	82.1	70.0-130	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Ethylbenzene	180921-2	20 ug/l	89.9	75.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Methylene chloride	180921-2	20 ug/l	93.2	55.0-140	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,1,2,2-Tetrachloroethane	180921-2	20 ug/l	85.0	65.0-130	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Tetrachloroethene	180921-2	20 ug/l	93.5	45.0-150	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Toluene	180921-2	20 ug/l	113	75.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,1,1-Trichloroethane	180921-2	20 ug/l	94.8	65.0-130	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
1,1,2-Trichloroethane	180921-2	20 ug/l	85.1	75.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Trichloroethene	180921-2	20 ug/l	91.6	70.0-125	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Vinyl chloride	180921-2	20 ug/l	106	50.0-145	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	180921-2	50 ug/l	100	75.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Dibromofluoromethane	180921-2	50 ug/l	101	85.0-115	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Toluene-D8	180921-2	50 ug/l	99.3	85.0-120	V8562	24Jul14 0951 by 301	24Jul14 1837 by 301		
Organochlorine Pesticides and PCBs									
Aldrin	180913-1	10 ug/l	89.2	25.0-140	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
alpha-BHC	180913-1	10 ug/l	83.8	60.0-130	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
alpha-Endosulfan	180913-1	10 ug/l	94.5	50.0-110	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
beta-BHC	180913-1	10 ug/l	73.9	65.0-125	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
beta-Endosulfan	180913-1	10 ug/l	86.0	30.0-130	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Chlorpyrifos	180913-1	10 ug/l	113	47.9-138	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
4,4'-DDD	180913-1	10 ug/l	85.1	25.0-150	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
4,4'-DDE	180913-1	10 ug/l	86.9	35.0-140	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
4,4'-DDT	180913-1	10 ug/l	90.7	45.0-140	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
delta-BHC	180913-1	10 ug/l	126	45.0-135	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Dieldrin	180913-1	10 ug/l	79.6	60.0-130	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Endosulfan sulfate	180913-1	10 ug/l	96.7	55.0-135	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Endrin	180913-1	10 ug/l	84.0	55.0-135	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Endrin aldehyde	180913-1	10 ug/l	104	55.0-135	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
gamma-BHC	180913-1	10 ug/l	79.6	25.0-135	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Heptachlor	180913-1	10 ug/l	91.0	40.0-130	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Heptachlor epoxide	180913-1	10 ug/l	115	60.0-130	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Organochlorine Pesticides and PCBs Surrogates:									
Decachlorobiphenyl	180913-1	20 ug/l	85.4	30.0-135	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		
Tetrachloro-m-xylene	180913-1	20 ug/l	95.2	25.0-140	G9780	24Jul14 0921 by 295	24Jul14 1652 by 306		



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W48577-1	24Jul14 0821 by 308	24Jul14 1135 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W48578-1	24Jul14 0833 by 308	24Jul14 1357 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S37118-1	24Jul14 1021 by 305	24Jul14 1504 by 305	
Base/Neutral and Acid Compounds							
Acenaphthene	< 0.83 ug/l	0.83	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Acenaphthylene	< 0.79 ug/l	0.79	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Anthracene	< 1.5 ug/l	1.5	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Benzidine	< 14 ug/l	14	25	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Benzo(a)anthracene	< 0.75 ug/l	0.75	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Benzo(a)pyrene	< 0.63 ug/l	0.63	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Benzo(g,h,i)perylene	< 0.79 ug/l	0.79	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Benzo(k)fluoranthene	< 1.6 ug/l	1.6	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
3,4-Benzofluoranthene	< 1.4 ug/l	1.4	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Bis(2-chloroethoxy)methane	< 0.80 ug/l	0.80	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Bis(2-chloroethyl)ether	< 0.88 ug/l	0.88	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Bis(2-chloroisopropyl)ether	< 0.94 ug/l	0.94	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Bis(2-ethylhexyl)phthalate	< 3.8 ug/l	3.8	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
4-Bromophenyl phenyl ether	< 1.2 ug/l	1.2	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Butylbenzyl phthalate	< 1.5 ug/l	1.5	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2-Chloronaphthalene	< 0.84 ug/l	0.84	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2-Chlorophenol	< 2.1 ug/l	2.1	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
4-Chlorophenyl phenyl ether	< 0.96 ug/l	0.96	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Chrysene	< 0.83 ug/l	0.83	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Di-n-butyl phthalate	< 1.1 ug/l	1.1	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Di-n-octyl phthalate	< 0.70 ug/l	0.70	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Dibenz(a,h)anthracene	< 1.2 ug/l	1.2	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
3,3'-Dichlorobenzidine	< 4.9 ug/l	4.9	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,4-Dichlorophenol	< 0.51 ug/l	0.51	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Diethyl phthalate	< 0.85 ug/l	0.85	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Dimethyl phthalate	< 0.93 ug/l	0.93	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,4-Dimethylphenol	< 0.79 ug/l	0.79	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
4,6-Dinitro-o-cresol	< 0.75 ug/l	0.75	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,4-Dinitrophenol	< 0.74 ug/l	0.74	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,4-Dinitrotoluene	< 0.51 ug/l	0.51	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,6-Dinitrotoluene	< 0.83 ug/l	0.83	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
1,2-Diphenylhydrazine	< 0.60 ug/l	0.60	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Fluorene	< 0.99 ug/l	0.99	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Hexachlorobenzene	< 1.1 ug/l	1.1	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
Hexachlorobutadiene	< 0.71 ug/l	0.71	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Hexachlorocyclopentadiene	< 0.74 ug/l	0.74	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Hexachloroethane	< 0.73 ug/l	0.73	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Indeno(1,2,3-cd)pyrene	< 1.2 ug/l	1.2	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Isophorone	< 0.90 ug/l	0.90	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
n-Nitrosodi-n-propylamine	< 0.90 ug/l	0.90	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
n-Nitrosodimethylamine	< 2.5 ug/l	2.5	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
n-Nitrosodiphenylamine	< 1.1 ug/l	1.1	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	R
Naphthalene	< 0.87 ug/l	0.87	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Nitrobenzene	< 0.85 ug/l	0.85	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2-Nitrophenol	< 0.82 ug/l	0.82	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
4-Nitrophenol	< 0.70 ug/l	0.70	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
p-Chloro-m-cresol	< 1.7 ug/l	1.7	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Pentachlorophenol	< 0.94 ug/l	0.94	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Phenanthrene	< 0.93 ug/l	0.93	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Phenol	< 2.6 ug/l	2.6	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Pyrene	< 0.56 ug/l	0.56	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
1,2,4-Trichlorobenzene	< 0.87 ug/l	0.87	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,4,6-Trichlorophenol	< 1.4 ug/l	1.4	5.0	B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	91.9 %			B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2-Fluorophenol (20.0-110%)	61.8 %			B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Nitrobenzene-D5 (40.0-110%)	84.0 %			B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Terphenyl-D14 (50.0-135%)	78.9 %			B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
2,4,6-Tribromophenol (40.0-125%)	78.4 %			B9081-1	23Jul14 1438 by 306	24Jul14 1736 by 301	
Volatile Organic Compounds							
Acrolein	< 0.78 ug/l	0.78	25	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Acrylonitrile	< 0.63 ug/l	0.63	25	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Benzene	< 0.12 ug/l	0.12	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Bromoform	< 0.26 ug/l	0.26	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Carbon tetrachloride	< 0.21 ug/l	0.21	2.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Chlorobenzene	< 0.11 ug/l	0.11	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Chlorodibromomethane	< 0.11 ug/l	0.11	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Chloroethane	< 0.35 ug/l	0.35	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
2-Chloroethyl vinyl ether	< 0.24 ug/l	0.24	10	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Chloroform	< 0.16 ug/l	0.16	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,2-Dichlorobenzene	< 0.17 ug/l	0.17	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,3-Dichlorobenzene	< 0.14 ug/l	0.14	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,4-Dichlorobenzene	< 0.19 ug/l	0.19	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Dichlorobromomethane	< 0.17 ug/l	0.17	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,1-Dichloroethane	< 0.15 ug/l	0.15	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,2-Dichloroethane	< 0.21 ug/l	0.21	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,1-Dichloroethylene	< 0.24 ug/l	0.24	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
trans-1,2-Dichloroethylene	< 0.20 ug/l	0.20	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,2-Dichloropropane	< 0.19 ug/l	0.19	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,3-Dichloropropylene	< 0.20 ug/l	0.20	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Ethylbenzene	< 0.12 ug/l	0.12	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Methyl bromide(Bromomethane)	< 0.16 ug/l	0.16	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Methyl chloride(Chloromethane)	< 0.19 ug/l	0.19	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Methylene chloride	< 0.25 ug/l	0.25	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,1,2,2-Tetrachloroethane	< 0.20 ug/l	0.20	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Tetrachloroethylene	< 0.18 ug/l	0.18	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Toluene	< 0.16 ug/l	0.16	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,1,1-Trichloroethane	< 0.13 ug/l	0.13	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
1,1,2-Trichloroethane	< 0.19 ug/l	0.19	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Trichloroethylene	< 0.22 ug/l	0.22	5.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Vinyl chloride	< 0.47 ug/l	0.47	2.0	V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	95.6 %			V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Dibromofluoromethane (85.0-115%)	99.5 %			V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Toluene-D8 (85.0-120%)	99.6 %			V8562-1	24Jul14 0951 by 301	24Jul14 2018 by 301	
Organochlorine Pesticides and PCBs							
Aldrin	< 0.0050 ug/l	0.0050	0.010	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
alpha-BHC	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
alpha-Endosulfan	< 0.0050 ug/l	0.0050	0.010	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
beta-BHC	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
beta-Endosulfan	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Chlordane	< 0.10 ug/l	0.10	0.10	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Chlorpyrifos	< 0.0050 ug/l	0.0050	0.050	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
4,4'-DDD	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
4,4'-DDE	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
4,4'-DDT	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
delta-BHC	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Dieldrin	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Endosulfan sulfate	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Endrin	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Endrin aldehyde	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
gamma-BHC	< 0.0050 ug/l	0.0050	0.020	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Heptachlor	< 0.0050 ug/l	0.0050	0.010	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Heptachlor epoxide	< 0.0050 ug/l	0.0050	0.010	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1016	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1221	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1232	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1242	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1248	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1254	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
PCB 1260	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Toxaphene	< 0.20 ug/l	0.20	0.20	G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Organochlorine Pesticides and PCBs Surrogates:							
Decachlorobiphenyl (30.0-135%)	73.8 %			G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	
Tetrachloro-m-xylene (25.0-140%)	82.8 %			G9780-1	24Jul14 0921 by 295	24Jul14 1623 by 306	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>SPRINGDALE WATER UTILITIES</u>			PO No. <u>0018139 00</u>		NO OF BOTTLES	ANALYSES REQUESTED ¹						AIC CONTROL NO: <u>180921</u>			
Project Reference: <u>TABLE II, TABLE III</u>			SAMPLE MATRIX			T. CYANIDE	T. AMENOLICS	VOA	PP METALS + M ₀ (Excluding Hg)	BNA 625	PEST 608	AIC PROPOSAL NO:			
Project Manager: <u>BRAD STEWART</u>			G R A B	C O M P	W A T E R	S O I L	NO OF BOTTLES	T. CYANIDE	T. AMENOLICS	VOA	PP METALS + M ₀ (Excluding Hg)	BNA 625	PEST 608	Carrier/Tracking No. <u>FedEx</u>	
Sampled By: <u>OPERATIONS STAFF</u>														Received Temperature C <u>1.2 C</u>	
AIC No.	Sample Identification	Date/Time Collected												Remarks	
①	PLANT INFLUENT	1100, 1700, 2300, 0600 07/21-22/14		✓	✓	1	✓								
①	PLANT INFLUENT	1100, 1700, 2300, 0600 07/21-22/14		✓	✓	1		✓							
②	PLANT INFLUENT	1100, 1700, 2300, 0600 07/21-22/14	✓		✓	4		✓							
③	PLANT INFLUENT	1100 - 0900 07/21-22/14		✓	✓	1			✓						
③	PLANT INFLUENT	1100 - 0900 07/21-22/14		✓	✓	4				✓					
③	PLANT INFLUENT	1100 - 0900 07/21-22/14		✓	✓	4					✓				
													Field pH calibration on _____ @ _____ Buffer: _____		
Container Type							P	G	V	P	G	G			
Preservative							B	S	H	N	NO	NO			
G = Glass NO = none			P = Plastic S = Sulfuric acid pH2			V = VOA vials N = Nitric acid pH2			H = HCl to pH2 B = NaOH to pH12			T = Sodium Thiosulfate Z = Zinc acetate			
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS Expedited results requested by: <u>N/A</u>						Relinquished By: <u>[Signature]</u>			Date/Time: <u>07/22/14 - 1018</u>			Received By: _____		Date/Time: _____	
Who should AIC contact with questions: <u>BRAD STEWART</u> Phone: <u>479-756-3659</u> Fax: <u>479-750-7195</u>						Relinquished By: _____			Date/Time: _____			Received in Lab By: <u>[Signature]</u>		Date/Time: <u>7/23/14 1235</u>	
Report Attention to: <u>BRAD STEWART</u> Report Address to: <u>P.O. BOX 769 SPRINGDALE, AR 72762</u>						Comments: <u>EXCLUDE MERCURY ON PLANT INFLUENT.</u>									

Mercury One LTD

Mercury Analysis

Analytical Report

EPA Method 1631E

Customer Name:

Springdale Water Utilities
P.O. Box 769
Springdale, AR 72765-0769

Report #: 14-1443

Page 1 of 2

8/3/14

Attention:

Jennefer Enos

Project/PO#

0018137 00

Lab / (Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
Influent (Composite Samples 1-4)	50.4				140730-06
Effluent (Composite Samples 1-4)		0.619			140730-07
Field Blank			<0.2		140730-08
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	7/21-22/14	7/24-25/14	7/24/14		
Date Received:	7/30/14	7/30/14	7/30/14		
Date Prepared:	7/30/14	7/30/14	7/30/14		
Date Analyzed:	8/1/14	8/1/14	8/1/14		
Time Analyzed:	15:26	15:32	15:38		
Dilution Factor					QCS/MS/MSD
High Cal Used					Acceptable Range
QCS (Quality Control Standard)	93%				71-124%
Method Blank Result	<0.2	Method Blank Requirement			<0.2

M= Modified: See Below for Explanation

Dilution Factors are calculated into the results.

Method Reporting Limit

0.5ng/L

RPD Acceptable Range <20%

Matrix Spike/ Matrix Spike Duplicate Recoveries

MS/MSD Acceptable Range

71-129%

Mercury One Sample ID

% MS Recovery

% MSD Recovery

RPD

New Reporting Requirements- Some states now require reporting values between the detection limit (MDL) and the reporting limit (PQL) rather than using a <0.5 value

*J See Below

The results are related only to the samples presented on this report.

Arkansas Cert# 88-0911

The test results are certified to meet all requirements of NELAC.

West Virginia Cert # 348

Other Codes

North Carolina Cert # 662

Other Comments: J = Estimated result, R = Rejected,

Reason for J or R flag:

* A value found between the Reporting Limit and the Method Detection Limit is considered estimated

William W. Purves

Rev 4 6/23/11

Phone: 330-963-0843

2241 Pinnacle Parkway, Suite B, Twinsburg, OH 44087

Fax: 330-963-1016

Mercury One LTD

Mercury Analysis

Analytical Report
EPA Method 1631E

Report #: 14-1443

Page 2 of 2

The Calibration Range of the Instrument
0.5 to 200 ng/L
The instrument detection Limit for 2014 is 0.06ng/L

swu01 Springdale Water Utilities

High Cal

Calibration Range for High Concentration Samples
5 to 2000 ng/L
The instrument detection Limit for 2014 is 1ng/L
High cal Detection Limit 2 ng/L
High cal Reporting Limit 5 ng/L

Dilutions occur for the following reasons:

1. Sample concentration is over the analytical range of the Instrument.
2. Sample contains high solids and must be diluted to avoid interference.
3. Sample foams during purge and the sample is diluted to avoid foam entering the analytical cell.
4. Sample foams and an Interference is perceived during analysis, sample is diluted to avoid interference.

Comments:

Chain of Custody

Mercury One Ltd.
2241 Pinnacle Parkway, Suite B
Twinsburg, OH 44087

Phone: 330-963-0843
Fax: 330-963-1016
E-Mail: customerservice@mercuryoneltd.com

Method 1631 Mercury

Other: _____

ATTN: Brad Stewart

Client: Springdale Water Utilities

Address: P.O. Box 769

City: Springdale State: AR Zip: 72762

Phone: (479) 756-3657 Fax: (479) 750-7195 E-Mail: bstewart@springdalewater.com

Sampled By: Lab Staff

Collection Date	Time	Sample Matrix	Comp/Grab	Sample Description/Comments	Mercury One Lab ID
07/21/14	0700	Water	grab	Influent	140730-6a
07/21/14	1100	Water	grab	Influent <i>to be composited</i>	140730-6b
07/21/14	1500	Water	grab	Influent	140730-6c
07/22/14	0700	Water	grab	Influent	140730-6d
07/24/14	0800	Water	grab	Effluent	140730-7a
07/24/14	1130	Water	grab	Effluent <i>to be composited</i>	140730-7b
07/24/14	1500	Water	grab	Effluent	140730-7c
07/25/14	0800	Water	grab	Effluent	140730-7d
07/24/14	1130	Water	grab	Blank	140730-8

Relinquished By: Radue J Date: 07/28/14 Time: 0910
 Received By: Ullrich Date: 7/30/14 Time: 1305
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Use multiple lines for description if necessary.
Temp

**Springdale Water Utilities
P.O. Box 769
Springdale, AR 72765-0769**

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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NPDES Enforcement Section
5301 Northshore Drive
North Little Rock, AR 72118-5317**

