

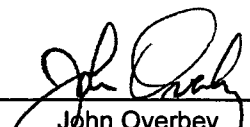


Springdale Water Utilities
ATTN: Mr. Brad Stewart
Post Office Box 769
Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on February 12, 2013. 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:

Four (4) water and one (1) sludge sample(s) received on February 12, 2013
Table III
P.O. No. 001727800

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>
164857-1	Effluent 02/07/13 0000,0600,1200,1800	07-Feb-2013 1800	
164857-2	Effluent 02/07/13 0000-2400	07-Feb-2013 2359	
164857-3	Influent 02/04-05/13 1100,1700,2300,0600	05-Feb-2013 0600	
164857-4	Influent 02/04-05/13 1100-0900	05-Feb-2013 0900	
164857-5	Belt Press Influent 02/08/13 0700	08-Feb-2013 0700	

Qualifiers:

X Spiking level is invalid due to the high concentration of analyte in the spiked sample

Case Narrative:

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise 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", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 164857-1

Sample Identification: Effluent 02/07/13 0000,0600,1200,1800

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.0056	0.005	mg/l	
Prep: 14-Feb-2013 0839 by 302	Analyzed: 15-Feb-2013 1545 by 302		Batch: W42554	
Total Cyanide SM 4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 14-Feb-2013 0653 by 302	Analyzed: 14-Feb-2013 1824 by 302		Batch: W42550	

AIC No. 164857-2

Sample Identification: Effluent 02/07/13 0000-2400

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Arsenic EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Copper EPA 200.8	6.2	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Lead EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Nickel EPA 200.8	6.6	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-Feb-2013 0843 by 270	Analyzed: 15-Feb-2013 1717 by 270		Batch: S34031	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	
Total Recoverable Zinc EPA 200.8	50	20	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1816 by 270		Batch: S34009	

AIC No. 164857-3

Sample Identification: Influent 02/04-05/13 1100,1700,2300,0600

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.16	0.005	mg/l	
Prep: 14-Feb-2013 0839 by 302	Analyzed: 15-Feb-2013 1545 by 302		Batch: W42554	



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ANALYTICAL RESULTS

AIC No. 164857-3 (Continued)
Sample Identification: Influent 02/04-05/13 1100,1700,2300,0600

Analyte	Result	RL	Units	Qualifier
Total Cyanide SM 4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 14-Feb-2013 0653 by 302	Analyzed: 14-Feb-2013 1833 by 302		Batch: W42550	

AIC No. 164857-4
Sample Identification: Influent 02/04-05/13 1100-0900

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Arsenic EPA 200.8	1.1	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Copper EPA 200.8	26	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Lead EPA 200.8	1.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Nickel EPA 200.8	12	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-Feb-2013 0843 by 270	Analyzed: 15-Feb-2013 1732 by 270		Batch: S34031	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	
Total Recoverable Zinc EPA 200.8	120	20	ug/l	
Prep: 12-Feb-2013 1612 by 100	Analyzed: 12-Feb-2013 1822 by 270		Batch: S34009	

AIC No. 164857-5
Sample Identification: Belt Press Influent 02/08/13 0700

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 3	3	mg/Kg	
Prep: 15-Feb-2013 0841 by 302	Analyzed: 15-Feb-2013 1429 by 302		Batch: W42570	
Total Recoverable Phenolics EPA 9065	48	20	mg/Kg	
Prep: 15-Feb-2013 0840 by 302	Analyzed: 15-Feb-2013 1545 by 302		Batch: W42569	



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ANALYTICAL RESULTS

AIC No. 164857-5 (Continued)

Sample Identification: Belt Press Influent 02/08/13 0700

Analyte		Result	RL	Units	Qualifier
Total Solids		4.2	0.01	%	
SM 2540 G	Prep: 18-Feb-2013 1131 by 285	Analyzed: 18-Feb-2013 1637 by 285		Batch: W42584	
Antimony		< 3	3	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Arsenic		< 5	5	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Beryllium		< 0.03	0.03	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Cadmium		< 0.4	0.4	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Chromium		11	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Copper		86	0.6	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Lead		< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Molybdenum		3.9	0.8	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Nickel		13	1	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Selenium		< 7	7	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Silver		1.9	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Thallium		< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Zinc		180	0.2	mg/Kg	
EPA 3051A, 6010C	Prep: 14-Feb-2013 1023 by 271	Analyzed: 15-Feb-2013 1557 by 305		Batch: S34018	
Mercury		< 0.1	0.1	mg/Kg	
EPA 7471B	Prep: 14-Feb-2013 1249 by 100	Analyzed: 15-Feb-2013 1219 by 100		Batch: S34024	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	164807-1	52 %			18Feb13 0849 by 285	18Feb13 1442 by 285		
	Batch: W42584 Duplicate	51 %	1.05	10.0	18Feb13 0849 by 285	18Feb13 1442 by 285		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	106	85.0-115			W42554	14Feb13 0839 by 302	15Feb13 1545 by 302		
Total Cyanide	0.1 mg/l	101	85.0-115			W42550	14Feb13 0654 by 302	14Feb13 1822 by 302		
Total Recoverable Antimony	0.05 mg/l	92.6	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Arsenic	0.05 mg/l	92.4	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Beryllium	0.05 mg/l	89.0	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Cadmium	0.05 mg/l	88.4	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Chromium	0.05 mg/l	94.4	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Copper	0.05 mg/l	88.6	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Lead	0.05 mg/l	92.4	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Molybdenum	0.05 mg/l	89.8	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Nickel	0.05 mg/l	89.2	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Selenium	0.05 mg/l	86.8	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Silver	0.02 mg/l	90.7	85.0-115			S34031	15Feb13 0843 by 270	15Feb13 1640 by 305		
Total Recoverable Thallium	0.05 mg/l	95.0	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Recoverable Zinc	0.05 mg/l	88.4	85.0-115			S34009	12Feb13 1612 by 100	12Feb13 1745 by 270		
Total Cyanide	0.500 mg/Kg	96.1	85.0-115			W42570	15Feb13 0841 by 302	15Feb13 1422 by 302		
Total Recoverable Phenolics	10.0 mg/Kg	103	85.0-115			W42569	15Feb13 0841 by 302	15Feb13 1545 by 302		
Antimony	500 mg/Kg	102	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Arsenic	500 mg/Kg	104	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Beryllium	50.0 mg/Kg	96.6	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Cadmium	500 mg/Kg	99.0	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Chromium	50.0 mg/Kg	101	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Copper	50.0 mg/Kg	101	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Lead	500 mg/Kg	97.5	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Molybdenum	50.0 mg/Kg	102	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Nickel	50.0 mg/Kg	103	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Selenium	500 mg/Kg	101	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Silver	10.0 mg/Kg	97.6	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Thallium	500 mg/Kg	107	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Zinc	50.0 mg/Kg	94.6	85.0-115			S34018	14Feb13 1023 by 271	15Feb13 1414 by 305		
Mercury	1.25 mg/Kg	92.0	85.0-115			S34024	14Feb13 1249 by 100	15Feb13 1200 by 100		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	164857-1	0.1 mg/l	110	80.0-120	W42554	14Feb13 0839 by 302	15Feb13 1545 by 302		
	164857-1	0.1 mg/l	99.0	80.0-120	W42554	14Feb13 0839 by 302	15Feb13 1545 by 302		
	Relative Percent Difference:		9.56	10.0	W42554				
Total Cyanide	164857-1	0.1 mg/l	96.9	75.0-125	W42550	14Feb13 0654 by 302	14Feb13 1826 by 302		
	164857-1	0.1 mg/l	98.8	75.0-125	W42550	14Feb13 0654 by 302	14Feb13 1828 by 302		
	Relative Percent Difference:		1.90	20.0	W42550				
Total Recoverable Antimony	164881-1	0.05 mg/l	101	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	103	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		1.38	20.0	S34009				
Total Recoverable Arsenic	164881-1	0.05 mg/l	112	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	98.8	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		12.6	20.0	S34009				
Total Recoverable Beryllium	164881-1	0.05 mg/l	99.6	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	98.2	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		1.45	20.0	S34009				
Total Recoverable Cadmium	164881-1	0.05 mg/l	96.2	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	95.2	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		1.00	20.0	S34009				
Total Recoverable Chromium	164881-1	0.05 mg/l	102	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	104	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		1.70	20.0	S34009				
Total Recoverable Copper	164881-1	0.05 mg/l	97.0	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	93.2	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		3.90	20.0	S34009				
Total Recoverable Lead	164881-1	0.05 mg/l	102	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	102	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		0.0665	20.0	S34009				
Total Recoverable Molybdenum	164881-1	0.05 mg/l	105	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	100	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		4.95	20.0	S34009				
Total Recoverable Nickel	164881-1	0.05 mg/l	96.4	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	93.6	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		2.86	20.0	S34009				
Total Recoverable Selenium	164881-1	0.05 mg/l	105	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	91.4	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		14.0	20.0	S34009				
Total Recoverable Silver	164974-1	0.02 mg/l	89.3	75.0-125	S34031	15Feb13 0843 by 270	15Feb13 1646 by 305		
	164974-1	0.02 mg/l	89.3	75.0-125	S34031	15Feb13 0843 by 270	15Feb13 1651 by 305		
	Relative Percent Difference:		0.0221	20.0	S34031				
Total Recoverable Thallium	164881-1	0.05 mg/l	108	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	104	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		3.42	20.0	S34009				
Total Recoverable Zinc	164881-1	0.05 mg/l	96.9	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1751 by 270		
	164881-1	0.05 mg/l	88.7	75.0-125	S34009	12Feb13 1612 by 100	12Feb13 1755 by 270		
	Relative Percent Difference:		7.17	20.0	S34009				
Total Cyanide	164756-1	0.984 mg/Kg	-	75.0-125	W42570	15Feb13 0841 by 302	15Feb13 1450 by 302		X
	164756-1	0.999 mg/Kg	-	75.0-125	W42570	15Feb13 0841 by 302	15Feb13 1452 by 302		X
	Relative Percent Difference:		1.86	20.0	W42570				
Total Recoverable Phenolics	164756-1	10.0 mg/Kg	98.4	80.0-120	W42569	15Feb13 0841 by 302	15Feb13 1545 by 302		
	164756-1	9.87 mg/Kg	92.5	80.0-120	W42569	15Feb13 0841 by 302	15Feb13 1545 by 302		
	Relative Percent Difference:		4.24	10.0	W42569				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	164815-2	499 mg/Kg	89.6	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	498 mg/Kg	90.0	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.436	20.0	S34018				
Arsenic	164815-2	499 mg/Kg	94.2	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	498 mg/Kg	95.0	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.826	20.0	S34018				
Beryllium	164815-2	49.9 mg/Kg	90.5	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	49.8 mg/Kg	91.3	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.847	20.0	S34018				
Cadmium	164815-2	499 mg/Kg	88.3	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	498 mg/Kg	88.9	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.672	20.0	S34018				
Chromium	164815-2	49.9 mg/Kg	105	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	49.8 mg/Kg	106	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.912	20.0	S34018				
Copper	164815-2	49.9 mg/Kg	106	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	49.8 mg/Kg	107	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.429	20.0	S34018				
Lead	164815-2	499 mg/Kg	90.3	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	498 mg/Kg	91.3	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		1.02	20.0	S34018				
Molybdenum	164815-2	49.9 mg/Kg	94.5	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	49.8 mg/Kg	95.2	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.786	20.0	S34018				
Nickel	164815-2	49.9 mg/Kg	95.0	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	49.8 mg/Kg	96.3	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.815	20.0	S34018				
Selenium	164815-2	499 mg/Kg	80.0	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	498 mg/Kg	80.4	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.553	20.0	S34018				
Silver	164815-2	9.97 mg/Kg	98.5	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	9.95 mg/Kg	99.1	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.628	20.0	S34018				
Thallium	164815-2	499 mg/Kg	99.6	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	498 mg/Kg	100	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.773	20.0	S34018				
Zinc	164815-2	49.9 mg/Kg	82.3	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1420 by 305		
	164815-2	49.8 mg/Kg	83.7	75.0-125	S34018	14Feb13 1023 by 271	15Feb13 1427 by 305		
	Relative Percent Difference:		0.492	20.0	S34018				
Mercury	164882-1	1.23 mg/Kg	99.4	70.0-130	S34024	14Feb13 1249 by 100	15Feb13 1204 by 100		
	164882-1	1.23 mg/Kg	99.8	70.0-130	S34024	14Feb13 1249 by 100	15Feb13 1209 by 100		
	Relative Percent Difference:		0.399	20.0	S34024				



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

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	W42554-1	14Feb13 0839 by 302	15Feb13 1545 by 302	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W42550-1	14Feb13 0654 by 302	14Feb13 1820 by 302	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S34009-1	12Feb13 1612 by 100	12Feb13 1730 by 270	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S34031-1	15Feb13 0843 by 270	15Feb13 1635 by 305	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W42570-1	15Feb13 0841 by 302	15Feb13 1420 by 302	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W42569-1	15Feb13 0841 by 302	15Feb13 1545 by 302	
Total Solids	< 0.01 %	0.01	0.01	W42584-1	18Feb13 0849 by 285	18Feb13 1442 by 285	
Antimony	< 3 mg/Kg	3	3	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Arsenic	< 5 mg/Kg	5	5	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Chromium	< 0.7 mg/Kg	0.7	0.7	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Copper	< 0.6 mg/Kg	0.6	0.6	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Lead	< 4 mg/Kg	4	4	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Nickel	< 1 mg/Kg	1	1	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Selenium	< 7 mg/Kg	7	7	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Silver	< 0.7 mg/Kg	0.7	0.7	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Thallium	< 4 mg/Kg	4	4	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Zinc	< 0.2 mg/Kg	0.2	0.2	S34018-1	14Feb13 1023 by 271	15Feb13 1410 by 305	
Mercury	< 0.1 mg/Kg	0.1	0.1	S34024-1	14Feb13 1249 by 100	15Feb13 1155 by 100	

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: SPRINGDALE WATER UTILITIES			PO No. 0017278 00		No of BOTTLES	Analyses Requested										AIC Control No: 164857						
Project Reference: TABLE III			Sample Matrix			PHENOLICS	CYANIDE	PP METALS + MO - Hg	TABLE III CNTY PREBIOLG	PP METALS + MO - Hg											AIC Proposal No:	
Project Manager: BRAD STEWART			WATER																		Carrier: fed - x	
Sampled By: OPERATIONS/BIO SOLIDS			G	C	A	S	S											Received Temperature °C 2°C				
AIC No.	Sample Identification	Date/Time Collected	A	B	P	R	L	S											Remarks			
1	EFFLUENT	0600, 0600, 1200, 1800 02/07/13	✓		✓				✓													
1	EFFLUENT	0600, 0600, 1200, 1800 02/07/13	✓		✓					✓												
2	EFFLUENT	0600 - 2400 02/07/13		✓	✓					✓												
3	INFLUENT	1100, 1700, 2300, 0600 02/04-05/13	✓		✓				✓													
3	INFLUENT	1100, 1700, 2300, 0600 02/04-05/13	✓		✓					✓												
4	INFLUENT	1100 - 0900 02/04-05/13		✓	✓					✓												
5	BELT PRESS INFLUENT	0700 02/08/13	✓					✓			✓											
Container Type						G	P	P	G											Field pH calibration on _____ @ _____		
Preservative						S	B	N	NO											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) NORMAL or EXPEDITED IN _____ DAYS					Relinquished By: <i>Josh W. Davis</i>					Date/Time: 02/08/13 - 0730					Received By:							
Expedited results requested by: N/A					Relinquished By:					Date/Time:					Received in Lab By: <i>Sharon K. ...</i>							
Who should AIC contact with questions: BRAD STEWART					Comments: BILLED PER PROPOSAL # 4790										Date/Time: 2-13-11							
Phone: 479-756-3659 Fax: 479-750-7195															1130							
Report Attention to: BRAD STEWART																						
Report Address to: P.O. BOX 769																						
SPRINGDALE, AR 72764																						
															(962015) 049662 15117317							



526 Oak Avenue
Springdale, AR 72764
479-751-5751

PURCHASE ORDER

980
TO: AMERICAN INTERPLEX CORP

8600 KANIS ROAD
LITTLE ROCK

AR 72204- 2322

PURCHASE ORDER NO.: 0017278 00

DATE.....: FEBRUARY 05, 2013

ATTENTION:

SHIP TO: WASTEWATER TREATMENT PLANT
2910 SILENT GROVE ROAD
SPRINGDALE

BILL TO: SPRINGDALE WATER UTILITIES
POST OFFICE BOX 769
SPRINGDALE AR 72765-0769

AR 72762-0000

CONTACT: BRAD STEWART

PHONE: 479-756-3657

DATE NEEDED..... ASAP

SPECIAL INSTRUCTIONS:

FOR: CONTRACT ANALYSIS
WWTP

ITEM NO. QUANTITY DESCRIPTION

UNIT PRICE U/M TOTAL PRICE

1 2.00 TABLET + MO-HG - WATER - FOR NPDES PERMIT 270.0000 EA 540.00

2 1.00 TABLET + MO - SLUDGE - FOR NPDES PERMIT PLUS SHIPPING/HANDLING 301.0000 EA 301.00

TOTAL BEFORE SALES TAX 841.00

APPROVED BY.....

Kuipman

Mercury One LTD

Mercury Analysis

Analytical Report
EPA Method 1631E & 245.7 Rev 2
 Customer Name:

Report #: 13-0383
Page 1 of 1
2/25/13

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

Attention: Jennefer Enos
 Project/PO# 0017291 00

Lab / (Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
Influent (Composite Grabs 1-4)	124				130221-09
Effluent (Composite Grabs 1-4)		1.06			130221-10
Field Blank			<0.2		130221-11
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	2/11-12/13	2/14-15/13	2/14/13		
Date Received:	2/21/13	2/21/13	2/21/13		
Date Prepared:	2/22/13	2/22/13	2/22/13	2/22/13	
Date Analyzed:	2/22/13	2/22/13	2/22/13		
Time Analyzed:	21:50	21:56	22:02		
Method Qualifier	M 1	M 1	M1	M1	
Dilution Factor	4				QCS
Method Detection Limit	1631E 0.2ng/L	245.7 Rev 2 1.8 ng/L			Acceptable Range
Method Reporting Limit	1631E 0.5ng/L	245.7 Rev 2 5.0 ng/L			245.7 Rev 2 63-111%
Quality Control Sample (QCS)	104.0%	-	-	-	1631E 71-124%

M= Modified: See Below for Explanation

M1= Method 1631E used for analysis.

M2= Method 245.7 used for analysis.

The Matrix Spike and Matrix Spike Duplicate reported are for samples identified below

Mercury One ID

% Recovery

MS/MSD Acceptable Range	RPD
1631E 71-129%	< 20%
245.7 Rev 2 63-111%	< 18%

MS

MSD

RPD

Comments:

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.

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

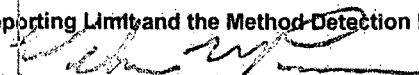
Other Codes

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

Arkansas Cert# 88-0911
 West Virginia Cert # 348
 North Carolina Cert # 662

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: 479-756-3659 Fax: 479-756-7195 E-Mail: bstewart@springdalewater.com

Sampled By: Lab Staff

Collection Date	Time	Sample Matrix	Comp/Grab	Sample Description/Comments	Mercury One Lab ID
02/11/13	0900	Water	Grab	Influent	130221-9a
02/11/13	1230	Water	Grab	Influent <i>to be composited</i>	130221-9b
02/11/13	1500	Water	Grab	Influent <i>to be composited</i>	130221-9c
02/12/13	0845	Water	Grab	Influent <i>to be composited</i>	130221-9d
02/14/13	0800	Water	Grab	Effluent	130221-10a
02/14/13	1230	Water	Grab	Effluent <i>to be composited</i>	130221-10b
02/14/13	1500	Water	Grab	Effluent <i>to be composited</i>	130221-10c
02/15/13	0800	Water	Grab	Effluent	130221-10d
02/14/13	1230	Water		Blank	130221-11

Relinquished By: Rachel J Date: 02/15/13 Time: 1117

Received By: LM Edwards Date: 2/21/13 Time: 1320

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Use multiple lines for description if necessary.

Temp

**CITY OF SPRINGDALE WWTF
 NPDES PERMIT NO. AR0022063
 AFIN NO. 72-00003
 BIOMONITORING REPORTING
 TEST DATE: 02/05/13**

I. *Ceriodaphnia dubia*

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

Response

0
97%
97%
0
11.61%

II. *Pimephales promelas* (fathead minnow)

- (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.
- (B) Report the NOEC value for survival, Parameter No. TOP6C.
- (C) Report the NOEC value for growth, Parameter No. TPP6C.
- (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.
- (E) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C.

Response

0
97%
97%
0
8.14%

22415 Retest Number 1

Leave Blank

22416 Retest Number 2

Leave Blank

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

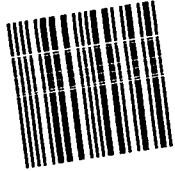



CERTIFIED MAIL™



7012 2210 0002 2221 6381

U.S. POSTAGE
PAID
SPRINGDALE, AR
72764
MAR 18 '13
AMOUNT
\$7.37
00057066-12



1000 72118

**RETURN RECEIPT
REQUESTED**

ADEQ
NPDES Enforcement Section
5301 Northshore Drive
North Little Rock, AR 72118

