



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**

January 18, 2016

Dear Sir or Madame:

On December 26 – 28, 2015, Northwest Arkansas experienced an extreme rainfall event. Substantial regional flooding was caused by over six inches of rain falling in a 48 hour period on saturated ground. Wastewater flows at Springdale Water Utilities' WWTF normally average around 12 MGD. Flows peaked at 49.51 MGD. All of the wastewater which came to Springdale's WWTF was fully or partially treated.

Of the wastewater entering the plant, a very small portion (18.1 million gallons) was sent to our facility's extreme final clarifiers. There, alum was added allowing solids to precipitate. The water was then comingled with the fully treated water in the chlorine contact basin. This mixture was chlorinated, dechlorinated, oxygenated, and passed through the Parshall flume leaving the facility. This alternative treatment process was used starting at 3:30 pm on December 27, 2015 and ending at 11:59 am on December 29, 2015 for a total time of 44 hours and 29 minutes.

In addition, from 5:30 pm on December 27, 2015 until 8:30 am on December 28, 2015, the chlorine contact basin had a relatively small amount of splashover due to the extreme volumes being treated. It is estimated that 150,000 gallons of wastewater splashed over in that 15 hour time span. This wastewater was not dechlorinated or oxygenated, however, it is not believed that there was any adverse effect from this partial treatment.

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NPDES Permit No. AR0022063
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Springdale, AR

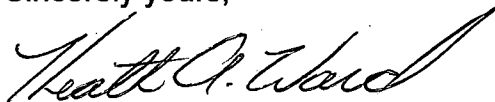
These deviations from normal operating procedures were reported verbally to Ms. Deb Gerst of ADEQ, first on December 28, 2015, within 24 hours of start of partial treatment, and again on December 30, 2015, within 24 hours of resumption of normal operations. This letter provides additional detail pertaining to the event.

No permit limitations were exceeded in the month of December, 2015.

Also included in this correspondence is a copy of the results of Table III analyses conducted on facility influent, effluent, and belt press influent (biosolids) for the fourth quarter of 2015. These analyses are required by Springdale's NPDES Permit.

If you have any questions concerning this letter or the included data, please do not hesitate to contact me at (479)751-5751 or Ms. Jennifer Enos at (479)756-3657

Sincerely yours,



Heath A. Ward
Executive Director

JEE/jee

Cc: Jennifer Enos, SWU
File

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for December 2015

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
12/11/2015	8:20 pm- 9:20 pm	1 hr.	704 W Allen Ave. Springdale, AR 72764	100 gal	Grease/Debris	Jet-Vac	None	Into storm drain.
12/14/2015	9:45 am- 10:00 am	15 min	418 W Allen Ave. Springdale, AR 72764	300 gal	Grease	Jet-Vac	None	Into storm drain.
12/27/2015- 12/28/2015	4:30 am- 11:50 pm	19 hrs. 20 min	Main Dr & Johnson Mill Blvd- Johnson, AR 72762	260,000 gal	I & I Rainfall	Extreme weather event, SSO due to flooding conditions. Engineering work is ongoing to significantly increase capacity at the downstream lift station.	None	Into field.
12/27/2015	11:30 am- 4:00 pm	4 hrs. 30 min	152 N. 40 th Street Springdale, AR 72762	6,750 gal	I & I Rainfall	Capacity exceeded at downstream lift station due to extreme weather event, SSO due to flooding conditions.	None	Into Brush Creek.

"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



Date 01/18/2016

Springdale Water Utilities

Springdale, Arkansas

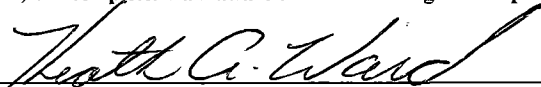
System Overflow Report for December 2015

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
12/27/2015	5:00 pm-10:00 pm	5 hrs.	8762 E Wagon Wheel Rd. Springdale, AR 72762	7,500 gal	I & I Rainfall/Equipment Failure	Pump failure resulted in reduced capacity at downstream lift station during extreme weather event. Pump currently in process of being repaired.	None	Into field
12/27/2015	3:00 am-11:00 pm	20 hrs.	3074 S. 48 th Street Springdale, AR 72762	12,000 gal	I & I Rainfall	Capacity exceeded at downstream lift station due to extreme weather event.	None	Into Little Wildcat Creek.
12/27/2015	5:30 pm-10:00 pm	4 hr. 30 min.	Patricia Street Springdale, AR 72762	5,000 gal	I & I Rainfall	Extreme weather event, SSO due to flooding conditions.	None	Into storm drain.
12/27/2015-12/28/2015	12:00 am-12:00 am	24 hrs.	S. Pleasant St & Rebecca Lane Springdale, AR 72764	50,000 gal	I & I Rainfall	Extreme weather event, SSO due to flooding conditions.	None	Into storm drain.

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Date 01/18/2016

Springdale Water Utilities

Springdale, Arkansas

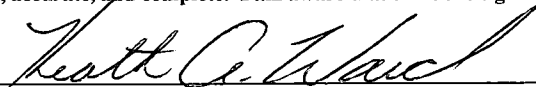
System Overflow Report for December 2015

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
12/27/2015- 12/28/2015	4:00 am- 12:00 pm	8 hrs.	Maple Ave Springdale, AR	30,000 gal	I & I Rainfall	Extreme weather event, SSO due to flooding conditions.	None	Into storm drain.
12/27/2015- 12/28/2015	2:00 pm- 12:00 am	10 hrs.	Locomotive Ave & Twin City Ave Springdale, AR	9,000 gal	I & I Rainfall	Extreme weather event, SSO due to flooding conditions.	None	Into storm drain.
12/27/2015- 12/28/2015	9:00 am- 12:00 am	15 hrs.	Fairway Circle Springdale, AR	12,000 gal	I & I Rainfall	Extreme weather event, SSO due to flooding conditions.	None	Into yard, storm drain.

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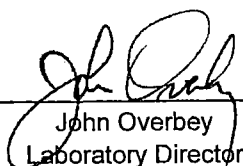


Springdale Water Utilities
ATTN: Mr. Brad Stewart
Post Office Box 769
Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on November 10, 2015. 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:

Four (4) water and one (1) sludge sample(s) received on November 10, 2015
Table III

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>
196089-1	Effluent	06-Nov-2015 2359	
196089-2	Effluent	06-Nov-2015 0600	
196089-3	Influent	03-Nov-2015 0800	
196089-4	Influent	03-Nov-2015 1400	
196089-5	Belt Press Influent	09-Nov-2015 1204	

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", (SM).
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 196089-1
Sample Identification: Effluent 06-Nov-2015 2359

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	26	5	ug/l	
Prep: 12-Nov-2015 0812 by 319	Analyzed: 12-Nov-2015 1208 by 319		Batch: W53884	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 12-Nov-2015 0849 by 319	Analyzed: 12-Nov-2015 1642 by 319		Batch: W53887	

AIC No. 196089-2
Sample Identification: Effluent 06-Nov-2015 0600

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Arsenic EPA 200.8	1.0	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Copper EPA 200.8	9.6	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Lead EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Nickel EPA 200.8	3.3	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	
Total Recoverable Zinc EPA 200.8	36	20	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1725 by 317		Batch: S40098	

AIC No. 196089-3
Sample Identification: Influent 03-Nov-2015 0800

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	100	5	ug/l	
Prep: 12-Nov-2015 0812 by 319	Analyzed: 12-Nov-2015 1208 by 319		Batch: W53884	



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ANALYTICAL RESULTS

AIC No. 196089-3 (Continued)
Sample Identification: Influent 03-Nov-2015 0800

Analyte	Result	RL	Units	Qualifier
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 12-Nov-2015 0849 by 319	Analyzed: 12-Nov-2015 1643 by 319		Batch: W53887	

AIC No. 196089-4
Sample Identification: Influent 03-Nov-2015 1400

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Arsenic EPA 200.8	2.3	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Copper EPA 200.8	17	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Lead EPA 200.8	0.66	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Nickel EPA 200.8	6.1	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	
Total Recoverable Zinc EPA 200.8	87	20	ug/l	
Prep: 12-Nov-2015 1349 by 317	Analyzed: 12-Nov-2015 1743 by 317		Batch: S40098	

AIC No. 196089-5
Sample Identification: Belt Press Influent 09-Nov-2015 1204

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 3	3	mg/Kg	
Prep: 16-Nov-2015 0826 by 319	Analyzed: 16-Nov-2015 1403 by 308		Batch: W53922	
Total Recoverable Phenolics EPA 9065	21	20	mg/Kg	
Prep: 16-Nov-2015 0825 by 319	Analyzed: 17-Nov-2015 0814 by 308		Batch: W53921	



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ANALYTICAL RESULTS

AIC No. 196089-5 (Continued)

Sample Identification: Belt Press Influent 09-Nov-2015 1204

Analyte	Result	RL	Units	Qualifier
Total Solids SM 2540 G 1997	4.7	0.01	wt %	
Prep: 11-Nov-2015 0852 by 100	Analyzed: 12-Nov-2015 1123 by 100		Batch: W53874	
Antimony EPA 3051A, 6010C	< 3	3	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Arsenic EPA 3051A, 6010C	< 5	5	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Beryllium EPA 3051A, 6010C	< 0.03	0.03	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Cadmium EPA 3051A, 6010C	< 0.4	0.4	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Chromium EPA 3051A, 6010C	3.8	0.7	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Copper EPA 3051A, 6010C	25	0.6	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Lead EPA 3051A, 6010C	< 4	4	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Molybdenum EPA 3051A, 6010C	1.6	0.8	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Nickel EPA 3051A, 6010C	4.6	1	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Selenium EPA 3051A, 6010C	< 7	7	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Silver EPA 3051A, 6010C	< 0.7	0.7	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Thallium EPA 3051A, 6010C	< 4	4	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Zinc EPA 3051A, 6010C	69	0.2	mg/Kg	
Prep: 13-Nov-2015 1403 by 317	Analyzed: 16-Nov-2015 1234 by 317		Batch: S40107	
Mercury EPA 7471B	< 0.1	0.1	mg/Kg	
Prep: 11-Nov-2015 1506 by 313	Analyzed: 11-Nov-2015 1623 by 313		Batch: S40091	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	196090-1	4.6 wt %			11Nov15 0852 by 100	12Nov15 1123 by 100		
	Batch: W53874 Duplicate	4.6 wt %	0.206	10.0	11Nov15 0853 by 100	12Nov15 1123 by 100		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	96.8	85.0-115			W53884	12Nov15 0812 by 319	12Nov15 1202 by 319		
Total Cyanide	0.1 mg/l	86.8	85.0-115			W53887	12Nov15 0850 by 319	12Nov15 1631 by 319		
Total Recoverable Antimony	0.05 mg/l	98.7	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Arsenic	0.05 mg/l	101	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Beryllium	0.05 mg/l	102	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Cadmium	0.05 mg/l	102	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Chromium	0.05 mg/l	96.9	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Copper	0.05 mg/l	106	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Lead	0.05 mg/l	102	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Molybdenum	0.05 mg/l	99.6	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Nickel	0.05 mg/l	106	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Selenium	0.05 mg/l	104	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Silver	0.02 mg/l	101	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Thallium	0.05 mg/l	102	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Recoverable Zinc	0.05 mg/l	110	85.0-115			S40098	12Nov15 1349 by 317	12Nov15 1640 by 317		
Total Cyanide	0.500 mg/Kg	93.1	85.0-115			W53922	16Nov15 0827 by 319	16Nov15 1402 by 308		
Total Recoverable Phenolics	10.0 mg/Kg	108	85.0-115			W53921	16Nov15 0825 by 319	17Nov15 0813 by 308		
Antimony	500 mg/Kg	98.8	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Arsenic	500 mg/Kg	95.0	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Beryllium	50.0 mg/Kg	95.9	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Cadmium	500 mg/Kg	104	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Chromium	50.0 mg/Kg	99.7	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Copper	50.0 mg/Kg	103	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Lead	500 mg/Kg	100	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Molybdenum	50.0 mg/Kg	95.8	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Nickel	50.0 mg/Kg	98.3	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Selenium	500 mg/Kg	93.8	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Silver	10.0 mg/Kg	107	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Thallium	500 mg/Kg	96.6	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Zinc	50.0 mg/Kg	96.9	85.0-115			S40107	13Nov15 1406 by 317	16Nov15 1106 by 317		
Mercury	1.25 mg/Kg	96.3	85.0-115			S40091	11Nov15 1506 by 313	11Nov15 1552 by 313		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	195829-2	0.1 mg/l	81.7	80.0-120	W53884	12Nov15 0812 by 319	12Nov15 1204 by 319		
	195829-2	0.1 mg/l	85.0	80.0-120	W53884	12Nov15 0812 by 319	12Nov15 1205 by 319		
	Relative Percent Difference:		3.70	10.0		W53884			
Total Cyanide	196143-2	0.1 mg/l	90.5	75.0-125	W53887	12Nov15 0850 by 319	12Nov15 1635 by 319		
	196143-2	0.1 mg/l	95.3	75.0-125	W53887	12Nov15 0850 by 319	12Nov15 1637 by 319		
	Relative Percent Difference:		5.17	20.0		W53887			
Total Recoverable Antimony	196131-1	0.05 mg/l	114	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	112	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		1.59	20.0		S40098			
Total Recoverable Arsenic	196131-1	0.05 mg/l	104	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	105	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		1.02	20.0		S40098			
Total Recoverable Beryllium	196131-1	0.05 mg/l	98.4	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	101	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		2.45	20.0		S40098			
Total Recoverable Cadmium	196131-1	0.05 mg/l	102	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	103	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		0.554	20.0		S40098			
Total Recoverable Chromium	196131-1	0.05 mg/l	95.0	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	93.4	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		1.58	20.0		S40098			
Total Recoverable Copper	196131-1	0.05 mg/l	101	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	102	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		0.815	20.0		S40098			
Total Recoverable Lead	196131-1	0.05 mg/l	98.2	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	99.7	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		1.52	20.0		S40098			
Total Recoverable Molybdenum	196131-1	0.05 mg/l	98.7	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	96.1	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		1.25	20.0		S40098			
Total Recoverable Nickel	196131-1	0.05 mg/l	103	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	104	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		0.496	20.0		S40098			
Total Recoverable Selenium	196131-1	0.05 mg/l	107	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	108	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		0.946	20.0		S40098			
Total Recoverable Silver	196131-1	0.02 mg/l	83.1	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.02 mg/l	85.3	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		2.60	20.0		S40098			
Total Recoverable Thallium	196131-1	0.05 mg/l	102	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	103	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		1.09	20.0		S40098			
Total Recoverable Zinc	196131-1	0.05 mg/l	100	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1646 by 317		
	196131-1	0.05 mg/l	99.7	75.0-125	S40098	12Nov15 1349 by 317	12Nov15 1651 by 317		
	Relative Percent Difference:		0.409	20.0		S40098			
Total Cyanide	196089-5	0.965 mg/Kg	90.7	75.0-125	W53922	16Nov15 0827 by 319	16Nov15 1405 by 308		
	196089-5	0.997 mg/Kg	92.2	75.0-125	W53922	16Nov15 0827 by 319	16Nov15 1407 by 308		
	Relative Percent Difference:		1.36	20.0		W53922			
Total Recoverable Phenolics	196089-5	9.74 mg/Kg	103	80.0-120	W53921	16Nov15 0825 by 319	17Nov15 0815 by 308		
	196089-5	9.89 mg/Kg	107	80.0-120	W53921	16Nov15 0825 by 319	17Nov15 0816 by 308		
	Relative Percent Difference:		3.09	10.0		W53921			



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	196163-2	498 mg/Kg	89.8	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	498 mg/Kg	92.4	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.90	20.0	S40107				
Arsenic	196163-2	498 mg/Kg	91.8	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	498 mg/Kg	94.3	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.52	20.0	S40107				
Beryllium	196163-2	49.8 mg/Kg	92.9	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	49.8 mg/Kg	94.0	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		1.10	20.0	S40107				
Cadmium	196163-2	498 mg/Kg	96.0	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	498 mg/Kg	98.2	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.27	20.0	S40107				
Chromium	196163-2	49.8 mg/Kg	81.4	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	49.8 mg/Kg	83.9	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.09	20.0	S40107				
Copper	196163-2	49.8 mg/Kg	90.4	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	49.8 mg/Kg	93.1	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		1.94	20.0	S40107				
Lead	196163-2	498 mg/Kg	88.8	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	498 mg/Kg	91.1	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.33	20.0	S40107				
Molybdenum	196163-2	49.8 mg/Kg	82.9	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	49.8 mg/Kg	86.1	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		1.94	20.0	S40107				
Nickel	196163-2	49.8 mg/Kg	86.5	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	49.8 mg/Kg	88.8	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		1.77	20.0	S40107				
Selenium	196163-2	498 mg/Kg	90.3	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	498 mg/Kg	92.7	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.67	20.0	S40107				
Silver	196163-2	9.96 mg/Kg	101	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	9.97 mg/Kg	103	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.30	20.0	S40107				
Thallium	196163-2	498 mg/Kg	83.7	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		
	196163-2	498 mg/Kg	86.1	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		
	Relative Percent Difference:		2.78	20.0	S40107				
Zinc	196163-2	49.8 mg/Kg	-	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1112 by 317		X
	196163-2	49.8 mg/Kg	-	75.0-125	S40107	13Nov15 1406 by 317	16Nov15 1118 by 317		X
	Relative Percent Difference:		1.19	20.0	S40107				
Mercury	196062-1	2.43 mg/Kg	102	70.0-130	S40091	11Nov15 1506 by 313	11Nov15 1556 by 313		
	196062-1	2.50 mg/Kg	99.0	70.0-130	S40091	11Nov15 1506 by 313	11Nov15 1600 by 313		
	Relative Percent Difference:		2.65	20.0	S40091				



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	W53884-1	12Nov15 0812 by 319	12Nov15 1201 by 319	
Total Cyanide	< 0.005 mg/l	0.005	0.005	W53887-1	12Nov15 0850 by 319	12Nov15 1630 by 319	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Cadmium	< 0.0002 mg/l	0.0002	0.0002	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S40098-1	12Nov15 1349 by 317	12Nov15 1634 by 317	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W53922-1	16Nov15 0827 by 319	16Nov15 1400 by 308	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W53921-1	16Nov15 0825 by 319	17Nov15 0812 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W53874-1	11Nov15 0853 by 100	12Nov15 1123 by 100	
Antimony	< 3 mg/Kg	3	3	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Arsenic	< 5 mg/Kg	5	5	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Chromium	< 0.7 mg/Kg	0.7	0.7	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Copper	< 0.6 mg/Kg	0.6	0.6	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Lead	< 4 mg/Kg	4	4	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Nickel	< 1 mg/Kg	1	1	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Selenium	< 7 mg/Kg	7	7	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Silver	< 0.7 mg/Kg	0.7	0.7	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Thallium	< 4 mg/Kg	4	4	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Zinc	< 0.2 mg/Kg	0.2	0.2	S40107-1	13Nov15 1406 by 317	16Nov15 1102 by 317	
Mercury	< 0.1 mg/Kg	0.1	0.1	S40091-1	11Nov15 1506 by 313	11Nov15 1548 by 313	

Mercury One LTD

Mercury Analysis

Analytical Report
EPA Method 1631E

Report #: 15-1224 springdale ar

Page 1 of 1

Customer Name:

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

12/24/15

Attention:

Project/PO#

swu01

Lab / (Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
Influent	42.2				151222-01
Effluent		4.10			151222-02
Field Blank			<0.2		151222-03
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	12/09-10/15	12/10-11/15	12/10/15		
Date Received:	12/22/15	12/22/15	12/22/15		
Date Prepared:	12/22/15	12/22/15	12/22/15		
Date Analyzed:	12/23/15	12/23/15	12/23/15		
Time Analyzed	8:51	7:05	7:17		
Dilution Factor					
High Cal Range Used 1-1000 ng/L					QCS/MS/MSD
Method Detection Limit	0.2ng/L				Acceptable Range
QCS (Quality Control Standard)	96%				71-125%
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

71-125%

Mercury One Sample ID

% MS Recovery

% MSD Recovery

RPD

Normal Calibration range 0.5-200ng/L

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

The test results are certified to meet all requirements of the certifying authority

Other Codes

J* = Estimated result

* A value found between the Reporting Limit and the Method Detection Limit is considered estimated or the sample was not received in proper condition as required by the method.

R* = Rejected, Sample may not have met Method or sampling requirements.

William W. Purves

Rev 4.6/23/11

Phone: 330-963-0843

2241 Pinnacle Parkway, Suite B, Twinsburg, OH 44087

Fax: 330-963-1016

Kentucky Cert# 98034

Arkansas Cert# 88-0911

West Virginia Cert # 348

Mercury One Chain of Custody

Mercury One LTD
 2241 Pinnacle Parkway
 Twinsburg, OH 44087

Phone: 330-963-0843
 Fax: 330-963-1016

Client: Springsdale Water Utilities
 Contact: Bradley Stewart
 Client/Contact Address: _____

Client/Contact Phone #: 479-756-7657

Project#: _____

PO #: _____

Client/Contact E-mail: _____

Sampler/Client Signature: _____

Turnaround Time: Circle one

Standard Rush _____ days

Fax Results

E-Mail Results

Date Needed: _____

245.7 Rev 2

Method

1631E

Client Sample ID/Description	Date Sampled	Time Sampled	Number of Bottles	Grab*	Matrix	Preserved**	Lab ID
INFLUENT	12/17/15	0945	1	✓		BrCl	151223016
INFLUENT	12/17/15	1400	1	✓		BrCl	-01A
INFLUENT	12/17/15	0900	1	✓		BrCl	-01C
INFLUENT	12/17/15	1400	1	✓		BrCl	-01D
EFFLUENT	12/17/15	0900	1	✓		BrCl	15122202A
EFFLUENT	12/17/15	1400	1	✓		BrCl	-02B
EFFLUENT	12/17/15	0945	1	✓		BrCl	-02C
EFFLUENT	12/17/15	1600	1	✓		BrCl	-02D
BLANK	12/17/15	1400	1	✓		BrCl	15122203

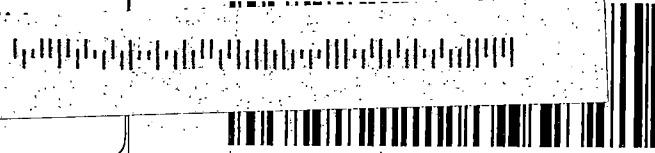
Relinquished by: _____ Date: 12/17/15 Time: 0945
 Received By: _____ Date: 12/22/15 Time: 1100
 Relinquished by: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

*Compliance Sample must be a grab.
 **Preservative is HCl or BrCl only in water matrix. DONOT ADD ICE OR ICE PACKETS. Do not add to sludges or soils
 Tissues must be shipped on ice, ice packets or freeze dried.
 Additional Comments:

CERTIFIED MAIL™

Springdale, WA

Sp



7013 0600 0001 6399 9361



1000



72118

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North Little Rock, AR 72118