



# 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**

July 15, 2015

Dear Sir or Madame:

Enclosed please find the results of second quarter Ceriodaphnia dubia and Pimephales promelas analyses, and second quarter Table III analyses conducted on Springdale Water Utilities' wastewater treatment facility influent, effluent, and sludge (belt press influent) for 2015. 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 A. Ward  
Executive Director

JEE/jee  
Enclosures

Cc: Jennifer Enos, SWU  
Mary Barnett, ADEQ  
File

# Springdale Water Utilities

Springdale, Arkansas

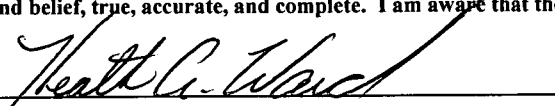
## System Overflow Report for June 2015

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
06/16/2015	9:40 pm- 9:45 pm	5 min.	138 N. 40 <sup>th</sup> Street Springdale, AR 72762	300 gal	Equipment Failure	Took action to repair equipment	None	Soaked into ground.
06/19/2015	12:00 am- 8:00 am	8 hrs.	1304 Rebecca Lane Springdale, AR 72764	500 gal	I & I- Rainfall	Extreme weather event. SSO due to flooding conditions. Work is scheduled in the Utility's 5-yr master plan to increase capacity in this area.	None	Into storm drain.
06/19/2015	12:00 am- 2:00 am	2 hrs.	608 W. Lakeview Drive. Springdale, AR 72764	50 gal	I & I- Rainfall	Extreme weather event. SSO due to flooding conditions. Work is scheduled in the Utility's 5-yr master plan to increase capacity in this area. Begin & end times represent a range and are not approximate.	None	Soaked into ground.
06/19/2015	12:00 am- 2:00 am	2 hrs.	801 Fairway Circle Springdale, AR 72764	50 gal	I & I- Rainfall	Extreme weather event. SSO due to flooding conditions. Work is scheduled in the Utility's 5-yr master plan to increase capacity in this area. Begin & end times represent a range and are not approximate.	None	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



Date 07/15/2015

# Springdale Water Utilities

Springdale, Arkansas

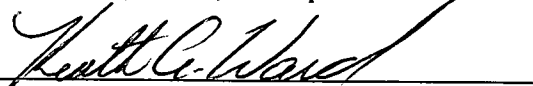
## System Overflow Report for June 2015

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
06/08/2015	7:10 pm- 7:45 pm	35 min.	1903 Cypress Place Springdale, AR 72762	30 gal	Grease	Jet-Vac	None	From service line cleanout- soaked into ground.
06/13/2015	10:30 am- 11:10 am	40 min.	1107 Thomas Blvd. Springdale, AR 72762	20 gal	Roots/Grease	Jet-Vac	None	From service line cleanout- soaked into ground.
06/15/2015	11:30 am- 11:50 am	20 min.	1845 Turnbow Ave. Springdale, AR 72764	200 gal	Grease/Debris	Jet-Vac	None	Storm drain.
06/15/2015	1:40 pm- 2:10 pm	30 min.	567 S. 40 <sup>th</sup> Street Springdale, AR 72762	5 gal	Grease/Debris	Jet-Vac	None	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



Date 07/15/2015

# Springdale Water Utilities

Springdale, Arkansas

## System Overflow Report for June 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
06/19/2015	10:22 am-6:00 pm	7 hrs. 38 min.	Southeast of Main Dr & Johnson Mill Blvd. Johnson, AR 72762	74,600 gal	I & I- Rainfall	Extreme weather event. SSO due to flooding conditions. Times determined by reviewing level data at downstream lift station.	None	Manholes (2) into field.
06/20/2015	8:00 am-10:00 am	2 hrs.	2910 Silent Grove Road. Springdale, AR 72762	2400 gal	Leaking EQ Basin	Leak diverted back into WWTF process train, basin drained for repair.	None	Into ditch.

"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 07/15/2015

**CITY OF SPRINGDALE WWTF  
 NPDES PERMIT NO. AR0022063  
 AFIN NO. 72-00003  
 BIOMONITORING REPORTING  
 TEST DATE: 06/02/15**

**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

7.26%

**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

8.02%

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 June 9, 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 June 9, 2015  
Table III

**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>
191311-1	Influent	02-Jun-2015 0800	
191311-2	Influent	02-Jun-2015 1400	
191311-3	Effluent	04-Jun-2015 2359	
191311-4	Effluent	05-Jun-2015 0600	
191311-5	Belt Press Influent	05-Jun-2015 0630	

**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).

Springdale Water Utilities  
Post Office Box 769  
Springdale, AR 72762

**ANALYTICAL RESULTS**

**AIC No. 191311-1**

**Sample Identification: Influent 02-Jun-2015 0800**

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Recoverable Phenolics</b> EPA 420.1	<b>120</b>	<b>5</b>	<b>ug/l</b>	
Prep: 15-Jun-2015 0827 by 308	Analyzed: 15-Jun-2015 1130 by 308		Batch: W52262	
<b>Total Cyanide</b> SM 4500-CN C,E 1999	<b>&lt; 10</b>	<b>10</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1051 by 308	Analyzed: 10-Jun-2015 1514 by 308		Batch: W52214	

**AIC No. 191311-2**

**Sample Identification: Influent 02-Jun-2015 1400**

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Recoverable Antimony</b> EPA 200.8	<b>&lt; 60</b>	<b>60</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Arsenic</b> EPA 200.8	<b>1.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Beryllium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Cadmium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Chromium</b> EPA 200.8	<b>&lt; 10</b>	<b>10</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Copper</b> EPA 200.8	<b>23</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Lead</b> EPA 200.8	<b>0.82</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Molybdenum</b> EPA 200.8	<b>&lt; 8</b>	<b>8</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Nickel</b> EPA 200.8	<b>6.9</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Selenium</b> EPA 200.8	<b>&lt; 5</b>	<b>5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Silver</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Thallium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	
<b>Total Recoverable Zinc</b> EPA 200.8	<b>130</b>	<b>20</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1817 by 302		Batch: S39136	

**AIC No. 191311-3**

**Sample Identification: Effluent 04-Jun-2015 2359**

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Recoverable Phenolics</b> EPA 420.1	<b>13</b>	<b>5</b>	<b>ug/l</b>	
Prep: 15-Jun-2015 0827 by 308	Analyzed: 15-Jun-2015 1130 by 308		Batch: W52262	





Springdale Water Utilities  
Post Office Box 769  
Springdale, AR 72762

**ANALYTICAL RESULTS**

AIC No. 191311-3 (Continued)  
Sample Identification: Effluent 04-Jun-2015 2359

Analyte	Result	RL	Units	Qualifier
<b>Total Cyanide</b> SM 4500-CN C,E 1999	<b>&lt; 10</b>	<b>10</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1051 by 308	Analyzed: 10-Jun-2015 1516 by 308		Batch: W52214	

AIC No. 191311-4  
Sample Identification: Effluent 05-Jun-2015 0600

Analyte	Result	RL	Units	Qualifier
<b>Total Recoverable Antimony</b> EPA 200.8	<b>&lt; 60</b>	<b>60</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Arsenic</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Beryllium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Cadmium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Chromium</b> EPA 200.8	<b>&lt; 10</b>	<b>10</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Copper</b> EPA 200.8	<b>3.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Lead</b> EPA 200.8	<b>0.97</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Molybdenum</b> EPA 200.8	<b>&lt; 8</b>	<b>8</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Nickel</b> EPA 200.8	<b>3.3</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Selenium</b> EPA 200.8	<b>&lt; 5</b>	<b>5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Silver</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Thallium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	
<b>Total Recoverable Zinc</b> EPA 200.8	<b>32</b>	<b>20</b>	<b>ug/l</b>	
Prep: 10-Jun-2015 1558 by 313	Analyzed: 11-Jun-2015 1811 by 302		Batch: S39136	

AIC No. 191311-5  
Sample Identification: Belt Press Influent 05-Jun-2015 0630

Analyte	Result	RL	Units	Qualifier
<b>Total Cyanide</b> EPA 9010C, 9014	<b>&lt; 4</b>	<b>4</b>	<b>mg/Kg</b>	
Prep: 10-Jun-2015 1403 by 308	Analyzed: 11-Jun-2015 1035 by 308		Batch: W52222	
<b>Total Recoverable Phenolics</b> EPA 9065	<b>43</b>	<b>20</b>	<b>mg/Kg</b>	
Prep: 11-Jun-2015 0743 by 308	Analyzed: 11-Jun-2015 1110 by 308		Batch: W52229	

Springdale Water Utilities  
 Post Office Box 769  
 Springdale, AR 72762

**ANALYTICAL RESULTS**
**AIC No. 191311-5 (Continued)**
**Sample Identification: Belt Press Influent 05-Jun-2015 0630**

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Solids</b>		<b>3.1</b>	<b>0.01</b>	<b>wt %</b>	
SM 2540 G 1997	Prep: 11-Jun-2015 0916 by 100	Analyzed: 12-Jun-2015 1101 by 100		Batch: W52233	
<b>Antimony</b>		<b>&lt; 3</b>	<b>3</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Arsenic</b>		<b>&lt; 5</b>	<b>5</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Beryllium</b>		<b>0.071</b>	<b>0.03</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Cadmium</b>		<b>&lt; 0.4</b>	<b>0.4</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Chromium</b>		<b>12</b>	<b>0.7</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Copper</b>		<b>86</b>	<b>0.6</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Lead</b>		<b>&lt; 4</b>	<b>4</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Molybdenum</b>		<b>5.8</b>	<b>0.8</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Nickel</b>		<b>20</b>	<b>1</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Selenium</b>		<b>&lt; 7</b>	<b>7</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Silver</b>		<b>7.2</b>	<b>0.7</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Thallium</b>		<b>&lt; 4</b>	<b>4</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Zinc</b>		<b>320</b>	<b>0.2</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 15-Jun-2015 1141 by 313	Analyzed: 15-Jun-2015 1624 by 235		Batch: S39162	
<b>Mercury</b>		<b>0.38</b>	<b>0.1</b>	<b>mg/Kg</b>	
EPA 7471B	Prep: 11-Jun-2015 1111 by 313	Analyzed: 11-Jun-2015 1746 by 302		Batch: S39143	



Springdale Water Utilities  
Post Office Box 769  
Springdale, AR 72762

**DUPLICATE RESULTS**

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Solids	191294-1	1.3 wt %			11Jun15 0916 by 100	12Jun15 1101 by 100		
	Batch: W52233 Duplicate	1.3 wt %	1.91	10.0	11Jun15 0916 by 100	12Jun15 1101 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	93.8	85.0-115			W52262	15Jun15 0828 by 308	15Jun15 1130 by 308		
Total Cyanide	0.1 mg/l	93.5	85.0-115			W52214	10Jun15 1051 by 308	10Jun15 1502 by 308		
Total Recoverable Antimony	0.05 mg/l	102	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Arsenic	0.05 mg/l	98.5	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Beryllium	0.05 mg/l	96.5	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Cadmium	0.05 mg/l	97.6	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Chromium	0.05 mg/l	93.2	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Copper	0.05 mg/l	103	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Lead	0.05 mg/l	98.2	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Molybdenum	0.05 mg/l	105	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Nickel	0.05 mg/l	101	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Selenium	0.05 mg/l	92.7	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Silver	0.02 mg/l	97.7	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Thallium	0.05 mg/l	104	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Recoverable Zinc	0.05 mg/l	95.0	85.0-115			S39136	10Jun15 1558 by 313	11Jun15 1754 by 302		
Total Cyanide	0.500 mg/Kg	100	85.0-115			W52222	10Jun15 1403 by 308	11Jun15 1219 by 308		
Total Recoverable Phenolics	10.0 mg/Kg	96.9	85.0-115			W52229	11Jun15 0744 by 308	11Jun15 1110 by 308		
Antimony	500 mg/Kg	95.8	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Arsenic	500 mg/Kg	98.6	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Beryllium	50.0 mg/Kg	100	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Cadmium	500 mg/Kg	99.2	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Chromium	50.0 mg/Kg	99.0	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Copper	50.0 mg/Kg	97.0	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Lead	500 mg/Kg	101	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Molybdenum	50.0 mg/Kg	96.2	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Nickel	50.0 mg/Kg	100	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Selenium	500 mg/Kg	100	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Silver	10.0 mg/Kg	106	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Thallium	500 mg/Kg	95.4	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Zinc	50.0 mg/Kg	99.2	85.0-115			S39162	15Jun15 1142 by 313	15Jun15 1600 by 235		
Mercury	1.25 mg/Kg	105	85.0-115			S39143	11Jun15 1111 by 313	11Jun15 1730 by 302		



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
Total Recoverable Phenolics	191308-1	0.1 mg/l	87.2	80.0-120	W52262	15Jun15 0828 by 308	15Jun15 1130 by 308		
	191308-1	0.1 mg/l	88.0	80.0-120	W52262	15Jun15 0828 by 308	15Jun15 1130 by 308		
	Relative Percent Difference:		0.735	10.0	W52262				
Total Cyanide	191188-2	0.1 mg/l	88.7	75.0-125	W52214	10Jun15 1051 by 308	10Jun15 1506 by 308		
	191188-2	0.1 mg/l	86.0	75.0-125	W52214	10Jun15 1051 by 308	10Jun15 1507 by 308		
	Relative Percent Difference:		2.95	20.0	W52214				
Total Recoverable Antimony	191311-4	0.05 mg/l	-	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		X
	191311-4	0.05 mg/l	-	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		X
	Relative Percent Difference:		2.07	20.0	S39136				
Total Recoverable Arsenic	191311-4	0.05 mg/l	102	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	99.7	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		2.28	20.0	S39136				
Total Recoverable Beryllium	191311-4	0.05 mg/l	94.8	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	93.3	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		1.65	20.0	S39136				
Total Recoverable Cadmium	191311-4	0.05 mg/l	95.7	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	94.8	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.910	20.0	S39136				
Total Recoverable Chromium	191311-4	0.05 mg/l	95.8	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	94.9	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.937	20.0	S39136				
Total Recoverable Copper	191311-4	0.05 mg/l	96.8	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	96.8	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.0879	20.0	S39136				
Total Recoverable Lead	191311-4	0.05 mg/l	95.1	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	94.9	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.226	20.0	S39136				
Total Recoverable Molybdenum	191311-4	0.05 mg/l	-	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		X
	191311-4	0.05 mg/l	-	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		X
	Relative Percent Difference:		0.463	20.0	S39136				
Total Recoverable Nickel	191311-4	0.05 mg/l	97.5	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	98.2	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.710	20.0	S39136				
Total Recoverable Selenium	191311-4	0.05 mg/l	93.2	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	91.5	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		1.84	20.0	S39136				
Total Recoverable Silver	191311-4	0.02 mg/l	94.5	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.02 mg/l	94.1	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.506	20.0	S39136				
Total Recoverable Thallium	191311-4	0.05 mg/l	101	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		
	191311-4	0.05 mg/l	100	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		
	Relative Percent Difference:		0.502	20.0	S39136				
Total Recoverable Zinc	191311-4	0.05 mg/l	-	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1800 by 302		X
	191311-4	0.05 mg/l	-	75.0-125	S39136	10Jun15 1558 by 313	11Jun15 1805 by 302		X
	Relative Percent Difference:		0.247	20.0	S39136				
Total Cyanide	191186-1	0.990 mg/Kg	78.6	75.0-125	W52222	10Jun15 1403 by 308	11Jun15 1058 by 308		
	191186-1	0.977 mg/Kg	77.7	75.0-125	W52222	10Jun15 1403 by 308	11Jun15 1032 by 308		
	Relative Percent Difference:		0.771	20.0	W52222				
Total Recoverable Phenolics	191186-1	9.40 mg/Kg	105	80.0-120	W52229	11Jun15 0744 by 308	11Jun15 1110 by 308		
	191186-1	9.89 mg/Kg	98.2	80.0-120	W52229	11Jun15 0744 by 308	11Jun15 1110 by 308		
	Relative Percent Difference:		6.50	10.0	W52229				



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	191419-1	496 mg/Kg	88.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	498 mg/Kg	87.8	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.308	20.0	S39162				
Arsenic	191419-1	496 mg/Kg	93.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	498 mg/Kg	93.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.0435	20.0	S39162				
Beryllium	191419-1	49.6 mg/Kg	92.8	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	49.8 mg/Kg	93.2	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.389	20.0	S39162				
Cadmium	191419-1	496 mg/Kg	81.4	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	498 mg/Kg	81.4	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.132	20.0	S39162				
Chromium	191419-1	49.6 mg/Kg	89.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	49.8 mg/Kg	87.8	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.612	20.0	S39162				
Copper	191419-1	49.6 mg/Kg	80.4	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	49.8 mg/Kg	81.2	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.308	20.0	S39162				
Lead	191419-1	496 mg/Kg	80.2	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	498 mg/Kg	80.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.394	20.0	S39162				
Molybdenum	191419-1	49.6 mg/Kg	88.6	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	49.8 mg/Kg	88.6	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.0228	20.0	S39162				
Nickel	191419-1	49.6 mg/Kg	76.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	49.8 mg/Kg	75.9	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.204	20.0	S39162				
Selenium	191419-1	496 mg/Kg	88.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	498 mg/Kg	87.8	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.308	20.0	S39162				
Silver	191419-1	9.91 mg/Kg	97.7	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	9.97 mg/Kg	98.8	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.936	20.0	S39162				
Thallium	191419-1	496 mg/Kg	76.0	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		
	191419-1	498 mg/Kg	75.8	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		
		Relative Percent Difference:	0.448	20.0	S39162				
Zinc	191419-1	49.6 mg/Kg	-	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1604 by 235		X
	191419-1	49.8 mg/Kg	-	75.0-125	S39162	15Jun15 1142 by 313	15Jun15 1611 by 235		X
		Relative Percent Difference:	0.477	20.0	S39162				
Mercury	191296-1	2.33 mg/Kg	102	70.0-130	S39143	11Jun15 1111 by 313	11Jun15 1734 by 302		
	191296-1	2.37 mg/Kg	103	70.0-130	S39143	11Jun15 1111 by 313	11Jun15 1738 by 302		
		Relative Percent Difference:	0.311	20.0	S39143				



Springdale Water Utilities  
Post Office Box 769  
Springdale, AR 72762

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC		Analysis Date	Qual
				Sample	Preparation Date		
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W52262-1	15Jun15 0828 by 308	15Jun15 1130 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W52214-1	10Jun15 1051 by 308	10Jun15 1500 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Cadmium	< 0.0002 mg/l	0.0002	0.0002	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S39136-1	10Jun15 1558 by 313	11Jun15 1748 by 302	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W52222-1	10Jun15 1403 by 308	11Jun15 1026 by 308	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W52229-1	11Jun15 0744 by 308	11Jun15 1110 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W52233-1	11Jun15 0916 by 100	12Jun15 1101 by 100	
Antimony	< 3 mg/Kg	3	3	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Arsenic	< 5 mg/Kg	5	5	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Chromium	< 0.7 mg/Kg	0.7	0.7	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Copper	< 0.6 mg/Kg	0.6	0.6	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Lead	< 4 mg/Kg	4	4	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Nickel	< 1 mg/Kg	1	1	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Selenium	< 7 mg/Kg	7	7	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Silver	< 0.7 mg/Kg	0.7	0.7	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Thallium	< 4 mg/Kg	4	4	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Zinc	< 0.2 mg/Kg	0.2	0.2	S39162-1	15Jun15 1142 by 313	15Jun15 1555 by 235	
Mercury	< 0.1 mg/Kg	0.1	0.1	S39143-1	11Jun15 1111 by 313	11Jun15 1726 by 302	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <b>SPRINGDALE WATER UTILITIES</b>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED										AIC CONTROL NO: <b>191311</b>								
Project Reference: <b>TABLE III</b>			MATRIX			PHENOLICS	CYANIDE	PP METALS + MG (NO Hg)	TABLE III: C.N.T., PHENOLICS, PP METALS + MG													AIC PROPOSAL NO:		
Project Manager: <b>BRAD STEWART</b>			WATER	SOIL	SEWERS					G	A	C	R	S	O	I	L	S	E	S	E	S	E	S
Sampled By: <b>OPS, BIOSOLIDS</b>						A	B	P	R															
AIC No.	Sample Identification	Date/Time Collected																						
1	INFLUENT	1400, 2000, 0700, 0800 06/01-02/15	✓																					
1	INFLUENT	1400, 2000, 0700, 0800 06/01-02/15	✓																					
2	INFLUENT	1400-1400 06/01-02/15		✓																				
3	EFFLUENT	0600, 1200, 1800, 2400 06/04-05/15	✓																					
3	EFFLUENT	0600, 1200, 1800, 2400 06/04-05/15	✓																					
4	EFFLUENT	0600-0600 06/04-05/15		✓																				
5	BELT PRESS INFLUENT	0630 06/05/15																						
	Container Type																							Field pH calibration on _____ @ _____
	Preservative																							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      A = (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , NH <sub>4</sub> OH			Relinquished By: <i>Mark Phall...</i> Date/Time: <b>06/08/15 - 0700</b>		Received By:		Date/Time		Relinquished By:		Received in Lab By: <b>D. Brown</b>		Date/Time: <b>6-9-15 1300</b>								
Turnaround Time Requested: (Please circle) <b>NORMAL</b> or EXPEDITED IN _____ DAYS			Expedited results requested by: <b>N/A</b>			Who should AIC contact with questions: <b>BRAD STEWART</b>			Phone: <b>479-756-2659</b> Fax: <b>479-750-7195</b>			Report Attention to: <b>BRAD STEWART</b>			Report Address to: <b>P.O. BOX 769 SPRINGDALE, AR 72762</b>									
Email Address: <b>BSTEWART@SPRINGDALEWATER.COM</b>			Comments: <b>NO Hg ON INFLUENT + EFFLUENT</b>			<b>Hg ON BELT PRESS INFLUENT</b>																		

FedEx: 7807 8030 9546

# Mercury One LTD

## Mercury Analysis

Analytical Report  
EPA Method 1631E

Report #: 15-0598

Page 1 of 1

Customer Name:

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

6/12/15

Attention:

Project/PO#

swu01

Lab I/(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)	88.3				150611-03
Effluent (Composite Samples 1-4)		2.72			150611-04
Field Blank			<0.5		150611-05
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	6/1-2/2015	6/4-5/2015	6/4/15		
Date Received:	6/11/15	6/11/15	6/11/15		
Date Prepared:	6/11/15	6/11/15	6/11/15		
Date Analyzed:	6/12/15	6/12/15	6/12/15		
Time Analyzed:	9:04	9:08	9:09		
Dilution Factor					
High Cal Range Used					QCS/MS/MSD
Method Detection Limit	0.2ng/L				Acceptable Range
QCS (Quality Control Standard)	99%				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

The Calibration Range of the Instrument using low calibration 0.5-200ng/L, 2015 IDL 0.06ng/L

The Calibration Range of the Instrument using a high calibration 0.5-1000ng/L, 2015 IDL 0.075ng/L

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 the certifying authority

West Virginia Cert # 348

Other Codes

North Carolina Cert # 662

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



**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](mailto:customerservice@mercuryoneltd.com)

**Method 1631 Mercury**

Other: \_\_\_\_\_

ATTN: Brad Stewart

Client: Springdale Water Utilities

Address: P.O. Box 769

City: Springdale State: AK Zip: 72765

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

Sampled By: Laboratory Staff

Collection Date	Time	Sample Matrix	Comp/Grab	Sample Description/Comments	Mercury One Lab ID
06/01/15	0900	Water	grab	Influent } to	15Dell-3a
06/01/15	1400	Water	grab	Influent } to	15Dell-3b
06/02/15	0900	Water	grab	Influent } Compositied	15Dell-3c
06/02/15	1400	Water	grab	Influent } Compositied	15Dell-3d
06/04/15	0900	Water	grab	Effluent } to	15Dell-4a
06/04/15	1400	Water	grab	Effluent } to	15Dell-4b
06/05/15	0900	Water	grab	Effluent } Compositied	15Dell-4c
06/05/15	1400	Water	grab	Effluent } Compositied	15Dell-4d
06/04/15	0900	Water	grab	Blank	15Dell-5

Relinquished By: Radul J Date: 06/05/15 Time: 1410  
 Received By: M. Eberdole Date: 6/11/15 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**

**CERTIFIED MAIL™**



7013 0600 0001 6399 9309



1000



72118

**U.S. POSTAGE  
PAID  
GREENLAND, AR  
72737  
JUL 15, 15  
AMOUNT  
**\$8.11**  
00126078-05**

**Arkansas Dept. of Environmental Quality  
NPDES Enforcement Section  
5301 Northshore Drive  
North Little Rock, AR 72118-5317**

