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
Springdale, AR
AFIN#72-00003

June 13, 2012

Dear Sir or Madam:

Enclosed please find the results of second quarter Table III analyses conducted on Springdale Water Utilities' wastewater treatment facility influent, effluent, and sludge (belt press influent) for 2012. These analyses are required by our NPDES Permit.

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

Sincerely yours,

Rene Langston
Executive Director

JEE/jee
Enclosures
CC: Jennifer Enos, SWU
John Fazio, ADEQ
File

AMERICAN INTERPLEX CORPORATION LABORATORIES

1972 2012

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 May 1, 2012. 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 May 1, 2012
Table III
P.O. No. 001690700

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:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
157379-1	Influent 04/23-24/12 1100,1700,2300,0600	24-Apr-2012 0600	
157379-2	Influent 04/23-24/12 1100-0900	24-Apr-2012 0900	
157379-3	Effluent 04/26/12 0000,0600,1200,1800	26-Apr-2012 1800	
157379-4	Effluent 04/26/12 0000-2400	26-Apr-2012 2359	
157379-5	Belt Press Influent 04/27/12 0800	27-Apr-2012 0800	

Qualifiers:
D Result is from a secondary dilution factor
H Analytical holding time exceeded regulatory requirements
Q Analyte is not within quality control limits

Case Narrative:
Matrix spike for batch S32347 was not performed on any sample associated with AIC Control No. 157379.

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", 20th edition, 1998.
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS

AIC No. 157379-1
Sample Identification: Influent 04/23-24/12 1100,1700,2300,0600

Analyte		Result	RL	Units	Qualifier
Total Recoverable Phenolics		**0.25**	0.01	mg/l	D
EPA 420.1	Prep: 08-May-2012 0842 by 306	Analyzed: 09-May-2012 1510 by 306		Batch: W39758	Dil: 2
Total Cyanide		**< 0.01**	0.01	mg/l	H
SM4500-CN C,E	Prep: 08-May-2012 1439 by 302	Analyzed: 08-May-2012 2148 by 302		Batch: W39772	

AIC No. 157379-2
Sample Identification: Influent 04/23-24/12 1100-0900

Analyte		Result	RL	Units	Qualifier
Mercury		**< 0.2**	0.2	ug/l	
EPA 245.2	Prep: 02-May-2012 1046 by 271	Analyzed: 02-May-2012 1855 by 271		Batch: S32345	
Total Recoverable Antimony		**< 60**	60	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Arsenic		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Beryllium		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Cadmium		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Chromium		**20**	10	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Copper		**23**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Lead		**1.3**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Molybdenum		**< 8**	8	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Nickel		**8.4**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Selenium		**< 5**	5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Silver		**36**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Thallium		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	
Total Recoverable Zinc		**110**	20	ug/l	
EPA 200.8	Prep: 04-May-2012 0930 by 271	Analyzed: 09-May-2012 0403 by 270		Batch: S32364	

AIC No. 157379-3
Sample Identification: Effluent 04/26/12 0000,0600,1200,1800

Analyte		Result	RL	Units	Qualifier
Total Recoverable Phenolics		**0.036**	0.005	mg/l	
EPA 420.1	Prep: 08-May-2012 0842 by 306	Analyzed: 08-May-2012 1430 by 306		Batch: W39758	

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ANALYTICAL RESULTS

AIC No. 157379-3 (Continued)
Sample Identification: Effluent 04/26/12 0000,0600,1200,1800

Analyte		Result	RL	Units	Qualifier
Total Cyanide SM4500-CN C,E	Prep: 08-May-2012 1439 by 302	**< 0.01** Analyzed: 08-May-2012 2130 by 302	0.01	**mg/l** Batch: W39772	

AIC No. 157379-4
Sample Identification: Effluent 04/26/12 0000-2400

Analyte		Result	RL	Units	Qualifier
Mercury EPA 245.2	Prep: 02-May-2012 1046 by 271	**< 0.2** Analyzed: 02-May-2012 1900 by 271	0.2	**ug/l** Batch: S32345	
Total Recoverable Antimony EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 60** Analyzed: 09-May-2012 0409 by 270	60	**ug/l** Batch: S32364	
Total Recoverable Arsenic EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 0.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Beryllium EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 0.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Cadmium EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 0.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Chromium EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 10** Analyzed: 09-May-2012 0409 by 270	10	**ug/l** Batch: S32364	
Total Recoverable Copper EPA 200.8	Prep: 04-May-2012 0930 by 271	**5.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Lead EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 0.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Molybdenum EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 8** Analyzed: 09-May-2012 0409 by 270	8	**ug/l** Batch: S32364	
Total Recoverable Nickel EPA 200.8	Prep: 04-May-2012 0930 by 271	**5.0** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Selenium EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 5** Analyzed: 09-May-2012 0409 by 270	5	**ug/l** Batch: S32364	
Total Recoverable Silver EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 0.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Thallium EPA 200.8	Prep: 04-May-2012 0930 by 271	**< 0.5** Analyzed: 09-May-2012 0409 by 270	0.5	**ug/l** Batch: S32364	
Total Recoverable Zinc EPA 200.8	Prep: 04-May-2012 0930 by 271	**49** Analyzed: 09-May-2012 0409 by 270	20	**ug/l** Batch: S32364	

AIC No. 157379-5
Sample Identification: Belt Press Influent 04/27/12 0800

Analyte		Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	Prep: 02-May-2012 1455 by 306	**< 0.4** Analyzed: 04-May-2012 1610 by 306	0.4	**mg/Kg** Batch: W39703	

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ANALYTICAL RESULTS

AIC No. 157379-5 (Continued)
Sample Identification: Belt Press Influent 04/27/12 0800

Analyte		Result	RL	Units	Qualifier
Total Recoverable Phenolics		**22**	0.2	**mg/Kg**	
EPA 9065	Prep: 03-May-2012 0911 by 306	Analyzed: 04-May-2012 1000 by 306		Batch: W39707	
Total Solids		**3.1**	0.01	**%**	
SM 2540G	Prep: 08-May-2012 0917 by 285	Analyzed: 08-May-2012 1540 by 285		Batch: W39759	
Antimony		**< 3**	3	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 08-May-2012 1240 by 297		Batch: S32347	
Arsenic		**< 5**	5	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Beryllium		**< 0.03**	0.03	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Cadmium		**< 0.4**	0.4	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Chromium		**27**	0.7	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Copper		**120**	0.6	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Lead		**5.5**	4	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Molybdenum		**6.4**	0.8	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 08-May-2012 1240 by 297		Batch: S32347	
Nickel		**19**	1	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Selenium		**< 7**	7	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Silver		**17**	0.7	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Thallium		**< 4**	4	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 08-May-2012 1240 by 297		Batch: S32347	
Zinc		**210**	0.2	**mg/Kg**	
EPA 3051A, 6010C	Prep: 02-May-2012 1114 by 100	Analyzed: 03-May-2012 1532 by 297		Batch: S32347	
Mercury		**0.28**	0.1	**mg/Kg**	
EPA 7471B	Prep: 09-May-2012 1500 by 100	Analyzed: 10-May-2012 0851 by 271		Batch: S32356	

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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Solids	157305-1	17 %			08May12 0917 by 285	08May12 1540 by 285		
Batch: W39759	Duplicate	16 %	2.33	10.0	08May12 0917 by 285	08May12 1540 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	105	85.0-115			W39758	08May12 0843 by 306	08May12 1430 by 306		
Total Cyanide	0.1 mg/l	95.3	85.0-115			W39772	08May12 1439 by 302	08May12 2128 by 302		
Mercury	0.0025 mg/l	96.8	85.0-115			S32345	02May12 1047 by 271	02May12 1830 by 271		
Total Recoverable Antimony	0.05 mg/l	99.4	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Arsenic	0.05 mg/l	95.4	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Beryllium	0.05 mg/l	106	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Cadmium	0.05 mg/l	102	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Chromium	0.05 mg/l	94.4	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Copper	0.05 mg/l	98.1	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Lead	0.05 mg/l	99.1	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Molybdenum	0.05 mg/l	99.9	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Nickel	0.05 mg/l	98.8	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Selenium	0.05 mg/l	96.4	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Silver	0.02 mg/l	95.9	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Recoverable Thallium	0.05 mg/l	103	85.0-115			S32364	04May12 0931 by 271	10May12 1009 by 270		
Total Recoverable Zinc	0.05 mg/l	98.9	85.0-115			S32364	04May12 0931 by 271	07May12 1523 by 270		
Total Cyanide	0.1 mg/Kg	95.3	85.0-115			W39703	02May12 1456 by 306	04May12 1555 by 306		
Total Recoverable Phenolics	0.1 mg/Kg	92.6	85.0-115			W39707	03May12 0911 by 306	04May12 1000 by 306		
Antimony	5 mg/Kg	103	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Arsenic	5 mg/Kg	98.6	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Beryllium	0.5 mg/Kg	99.3	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Cadmium	5 mg/Kg	98.1	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Chromium	0.5 mg/Kg	96.6	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Copper	0.5 mg/Kg	96.8	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Lead	5 mg/Kg	94.2	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Molybdenum	0.5 mg/Kg	103	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Nickel	0.5 mg/Kg	96.2	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Selenium	5 mg/Kg	98.9	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Silver	0.1 mg/Kg	94.7	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Thallium	5 mg/Kg	103	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Zinc	0.5 mg/Kg	94.9	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Mercury	0.0025 mg/Kg	104	85.0-115			S32356	09May12 1500 by 100	10May12 0832 by 271		

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	157379-3	0.1 mg/l	84.0	80.0-120	W39758	08May12 0843 by 306	08May12 1430 by 306		
	157379-3	0.1 mg/l	80.9	80.0-120	W39758	08May12 0843 by 306	08May12 1430 by 306		
	Relative Percent Difference:		2.61	10.0	W39758				
Total Cyanide	157379-3	0.1 mg/l	79.8	75.0-125	W39772	08May12 1439 by 302	08May12 2131 by 302		
	157379-3	0.1 mg/l	77.7	75.0-125	W39772	08May12 1439 by 302	08May12 2133 by 302		
	Relative Percent Difference:		2.55	20.0	W39772				
Mercury	157371-1	0.0025 mg/l	92.1	70.0-130	S32345	02May12 1047 by 271	02May12 1836 by 271		
	157371-1	0.0025 mg/l	94.9	70.0-130	S32345	02May12 1047 by 271	02May12 1841 by 271		
	Relative Percent Difference:		2.99	20.0	S32345				
Total Recoverable Antimony	157391-2	0.05 mg/l	94.5	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	94.2	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		0.273	20.0	S32364				
Total Recoverable Arsenic	157391-2	0.05 mg/l	95.6	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	93.0	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		2.72	20.0	S32364				
Total Recoverable Beryllium	157391-2	0.05 mg/l	102	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	103	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		0.318	20.0	S32364				
Total Recoverable Cadmium	157391-2	0.05 mg/l	96.6	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	94.6	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		2.18	20.0	S32364				
Total Recoverable Chromium	157391-2	0.05 mg/l	90.8	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	89.1	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.89	20.0	S32364				
Total Recoverable Copper	157391-2	0.05 mg/l	93.3	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	92.2	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.26	20.0	S32364				
Total Recoverable Lead	157391-2	0.05 mg/l	97.1	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	96.8	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		0.388	20.0	S32364				
Total Recoverable Molybdenum	157391-2	0.05 mg/l	98.1	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	96.1	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.42	20.0	S32364				
Total Recoverable Nickel	157391-2	0.05 mg/l	93.5	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	92.1	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.46	20.0	S32364				
Total Recoverable Selenium	157391-2	0.05 mg/l	95.8	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	93.8	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.98	20.0	S32364				
Total Recoverable Silver	157391-2	0.02 mg/l	84.0	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.02 mg/l	83.2	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.00	20.0	S32364				
Total Recoverable Thallium	157391-2	0.05 mg/l	101	75.0-125	S32364	04May12 0931 by 271	10May12 1032 by 270		
	157391-2	0.05 mg/l	100	75.0-125	S32364	04May12 0931 by 271	10May12 1037 by 270		
	Relative Percent Difference:		1.78	20.0	S32364				
Total Recoverable Zinc	157391-2	0.05 mg/l	96.7	75.0-125	S32364	04May12 0931 by 271	07May12 1540 by 270		
	157391-2	0.05 mg/l	95.5	75.0-125	S32364	04May12 0931 by 271	07May12 1546 by 270		
	Relative Percent Difference:		1.23	20.0	S32364				
Total Cyanide	157200-2	0.1 mg/Kg	84.6	75.0-125	W39703	02May12 1456 by 306	04May12 1559 by 306		
	157200-2	0.1 mg/Kg	82.3	75.0-125	W39703	02May12 1456 by 306	04May12 1601 by 306		
	Relative Percent Difference:		2.76	20.0	W39703				

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LABORATORIES

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	157319-2	0.1 mg/Kg	81.5	80.0-120	W39707	03May12 0911 by 306	04May12 1000 by 306		
	157319-2	0.1 mg/Kg	81.1	80.0-120	W39707	03May12 0911 by 306	04May12 1000 by 306		
	Relative Percent Difference:		0.560	10.0	W39707				
Antimony	157366-1	499 mg/Kg	91.8	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	92.4	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.668	20.0	S32347				
Arsenic	157366-1	499 mg/Kg	89.4	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	89.6	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.260	20.0	S32347				
Beryllium	157366-1	49.9 mg/Kg	91.1	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	91.7	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.548	20.0	S32347				
Cadmium	157366-1	499 mg/Kg	89.3	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	91.0	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		1.77	20.0	S32347				
Chromium	157366-1	49.9 mg/Kg	85.2	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	86.3	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.710	20.0	S32347				
Copper	157366-1	49.9 mg/Kg	90.7	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	93.4	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		2.06	20.0	S32347				
Lead	157366-1	499 mg/Kg	91.9	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	92.2	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.381	20.0	S32347				
Molybdenum	157366-1	49.9 mg/Kg	95.4	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	96.2	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.860	20.0	S32347				
Nickel	157366-1	49.9 mg/Kg	89.6	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	90.7	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.633	20.0	S32347				
Selenium	157366-1	499 mg/Kg	80.6	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	81.4	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		1.00	20.0	S32347				
Silver	157366-1	9.97 mg/Kg	48.2	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		Q
	157366-1	10.0 mg/Kg	52.1	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		Q
	Relative Percent Difference:		7.49	20.0	S32347				
Thallium	157366-1	499 mg/Kg	93.8	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	94.6	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.770	20.0	S32347				
Zinc	157366-1	49.9 mg/Kg	88.3	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	90.0	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.759	20.0	S32347				
Mercury	157366-1	1.23 mg/Kg	105	70.0-130	S32356	09May12 1500 by 100	10May12 0837 by 271		
	157366-1	1.24 mg/Kg	105	70.0-130	S32356	09May12 1500 by 100	10May12 0841 by 271		
	Relative Percent Difference:		0.820	20.0	S32356				

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1972 2012

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	W39758-1	08May12 0843 by 306	08May12 1430 by 306	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W39772-1	08May12 1439 by 302	08May12 2126 by 302	
Mercury	< 0.0002 mg/l	0.0002	0.0002	S32345-1	02May12 1047 by 271	02May12 1825 by 271	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S32364-1	04May12 0931 by 271	10May12 1003 by 270	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S32364-1	04May12 0931 by 271	07May12 1518 by 270	
Total Cyanide	< 0.01 mg/Kg	0.01	0.01	W39703-1	02May12 1456 by 306	04May12 1554 by 306	
Total Recoverable Phenolics	< 0.005 mg/Kg	0.005	0.005	W39707-1	03May12 0911 by 306	04May12 1000 by 306	
Total Solids	< 0.01 %	0.01	0.01	W39759-1	08May12 0917 by 285	08May12 1540 by 285	
Antimony	< 3 mg/Kg	3	3	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Arsenic	< 5 mg/Kg	5	5	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Chromium	< 0.7 mg/Kg	0.7	0.7	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Copper	< 0.6 mg/Kg	0.6	0.6	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Lead	< 4 mg/Kg	4	4	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Nickel	< 1 mg/Kg	1	1	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Selenium	< 7 mg/Kg	7	7	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Silver	< 0.7 mg/Kg	0.7	0.7	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Thallium	< 4 mg/Kg	4	4	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Zinc	< 0.2 mg/Kg	0.2	0.2	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Mercury	< 0.1 mg/Kg	0.1	0.1	S32356-1	09May12 1500 by 100	10May12 0827 by 271	

AMERICAN INTERPLEX CORPORATION LABORATORIES

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: Springdale Water Utilities
Project Reference: Table III
Project Manager: Brad Stewart
Sampled By: Operations Staff
PO No. 0016907 00
SAMPLE MATRIX: WATER, SOIL, Sludge
NO OF BOTTLES
ANALYSES REQUESTED[1]: T. Cyanide; T. Phenolics; pp Metals + Hg; pp metals + Hg, Cyanide, phenolics
AIC CONTROL NO: 157379
AIC PROPOSAL NO:
Carrier/Tracking No. Fed X
Received Temperature C 2°c

AIC No.	Sample Identification	Date/Time Collected	GRAB	COMP	WATER	SOIL	Sludge	NO OF BOTTLES	T. Cyanide	T. Phenolics	pp Metals + Hg	pp metals + Hg, Cyanide, phenolics	Remarks
1	Influent	04/23 - 24/12 1100, 1700, 2300, 0600		✓	✓			1	✓				
1	Influent	04/23 - 24/12 1100, 1700, 2300, 0600		✓	✓			1		✓			
2	Influent	04/23 - 24/12 1100 - 0900		✓	✓			1			✓		
3	Effluent	04/26/12 0000, 0600, 1200, 1800		✓	✓			1	✓				
3	Effluent	04/26/12 0000, 0600, 1200, 1800		✓	✓			1		✓			
4	Effluent	04/26/12 0000 - 2400		✓	✓			1			✓		
5	Belt Press Influent	04/27/12 0800	✓				✓	1				✓	
		Container Type							P B	G S	P N	G No	Field pH calibration
		Preservative											on _____ @ _____ 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
Expedited results requested by: N/A
Who should AIC contact with questions: Brad Stewart
Phone: 479-756-3657 Fax: 479-750-7195
Report Attention to: Brad Stewart
Report Address to: P.O. Box 769
Springdale, AR 72762

Relinquished By:	Date/Time	Received By:	Date/Time
Nadine F	04/30/12 1000		
Relinquished By:	Date/Time	Received in Lab By:	Date/Time
			5-1-12 12:00 pm

Comments: (96 17417) 0457662 1508/960

19-Oct-09

FORM 0060

Springdale Water Utilities
ATTN: Ms. Jennifer Enos
Post Office Box 769
Springdale, AR 72765-0769

This report contains the analytical results and supporting information for samples submitted on May 30, 2012. 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.

Steve Bradford
Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Springdale Water Utilities
ATTN: Ms. Jennifer Enos
jenos@springdalewater.com

AMERICAN INTERPLEX CORPORATION LABORATORIES

40 1972 2012

Springdale Water Utilities
Post Office Box 769
Springdale, AR 72765-0769

SAMPLE INFORMATION

Project Description:
Two (2) water sample(s) received on May 30, 2012
T III-T.CN

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:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
158125-1	Plant Influent 05/21-22/12 1100,1700,2300,0600	22-May-2012 0600	
158125-2	Plant Effluent 05/24/12 0000,0600,1200,1800	24-May-2012 1800	

Case Narrative:
There were no qualifiers for this data and all samples met quality control criteria.

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", 20th edition, 1998.
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).

AMERICAN INTERPLEX CORPORATION LABORATORIES

Springdale Water Utilities
Post Office Box 769
Springdale, AR 72765-0769

ANALYTICAL RESULTS

AIC No. 158125-1
Sample Identification: Plant Influent 05/21-22/12 1100,1700,2300,0600

Analyte	Result	RL	Units	Qualifier
Total Cyanide	**< 0.01**	0.01	**mg/l**	
SM4500-CN C,E Prep: 31-May-2012 0827 by 306	Analyzed: 01-Jun-2012 0847 by 306		Batch: W39991	

AIC No. 158125-2
Sample Identification: Plant Effluent 05/24/12 0000,0600,1200,1800

Analyte	Result	RL	Units	Qualifier
Total Cyanide	**< 0.01**	0.01	**mg/l**	
SM4500-CN C,E Prep: 31-May-2012 0827 by 306	Analyzed: 01-Jun-2012 0842 by 306		Batch: W39991	

AMERICAN INTERPLEX CORPORATION LABORATORIES

40 1972 2012

Springdale Water Utilities
Post Office Box 769
Springdale, AR 72765-0769

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	90.9	85.0-115			W39991	31May12 0828 by 306	01Jun12 0840 by 306		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	158125-2	0.1 mg/l	87.8	75.0-125	W39991	31May12 0828 by 306	01Jun12 0844 by 306		
	158125-2	0.1 mg/l	85.7	75.0-125	W39991	31May12 0828 by 306	01Jun12 0910 by 306		
	Relative Percent Difference:		2.37	20.0	W39991				

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Cyanide	< 0.01 mg/l	0.01	0.01	W39991-1	31May12 0828 by 306	01Jun12 0838 by 306	

AMERICAN INTERPLEX CORPORATION LABORATORIES

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: Springdale Water Utilities

Project Reference: TIII - T.CN

Project Manager: Brad Stewart

Sampled By: Operations Staff

PO No.:

AIC Control No: 158125

AIC Proposal No:

Carrier: Fed-x

Received Temperature °C: 2°C

Analyses Requested:

AIC No.	Sample Identification	Date/Time Collected	GRAB	COMP	WATER	SOIL		No of BOTTLES	T.CN	T.CN	Remarks
1	Plant Influent	05/21-22/12 1100, 1700, 2300, 0500		✓	✓			1	✓		
2	Plant Effluent	05/24/12 0000, 0600, 1200, 1800		✓	✓			1		✓	
											Field pH calibration
		Container Type							P	P	on ________ @ ______
		Preservative							B	B	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

Expedited results requested by: N/A

Who should AIC contact with questions: Brad Stewart

Phone: 479-756-3657 Fax: 479-750-7195

Report Attention to: Brad Stewart

Report Address to: P.O. Box 769, Springdale, AR 72762

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	05/29/12 1100		
Relinquished By:	Date/Time	Received in Lab By: [signature]	Date/Time 5-30-12 9:00 Am

Comments: 8764 3753 6010

Mercury One LTD

Mercury Analysis

Florida
NELAP Cert # E871043

Louisiana
NELAP Cert # 04150

Analytical Report
EPA Method 1631E & 245.7 Rev 2

Report #: 12-1094
Page 1 of 1
5/5/12

Customer Name: Springdale Water Utlilities
P.O. Box 769
Springdale, AR 72765-0769

Attention: Jennefer Enos
Project/PO# 0016908 00

Lab /(Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
Plant Influent (Composite 1 - 4)	**48.3**				120502-37
Plant Effluent (Composite 1 - 4)		**0.93**			120502-38
Field Blank			**<0.5**		120502-39
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	4/23-24/12	4/26-27/12	4/26/12		
Date Received:	5/2/12	5/2/12	5/2/12		
Date Prepared:	5/3/12	5/3/12	5/3/12	5/3/12	
Date Analyzed:	5/4/12	5/4/12	5/4/12		
Time Analyzed:	12:57:57 PM	12:59:35 PM	1:06:43 PM		
Method Qualifier	M 1	M 1	M 1	M 1	
Dilution Factor					**QCS**
Method Blank	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)	6.17	102.8%	-	-	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

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

Mercury One ID	% Recovery	MS	MSD	RPD

Comments:

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

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

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

Method 1631 Mercury

Other:

ATTN: Brad Stewart

Client: Springdale Water Utilities

Address: P.O. Box 769

City: Springdale **State:** AR **Zip:** 72762

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

Sampled By: Laboratory Staff

Collection Date	Time	Sample Matrix	Comp/ Grab	Sample Description/Comments	Mercury One Lab ID
04/23/12	0700	water	grab	Plant Influent } to	120502-37 a
04/23/12	1000	water	grab	Plant Influent } be	120502-37 b
04/23/12	1300	water	grab	Plant Influent } composited	120502-37 c
04/24/12	0700	water	grab	Plant Influent	120502-37 d
04/26/12	0700	water	grab	Plant Effluent } to	120502-38 a
04/26/12	1000	water	grab	Plant Effluent } be	120502-38 b
04/26/12	1300	water	grab	Plant Effluent } composited	120502-38 c
04/27/12	0700	water	grab	Plant Effluent	120502-38 d
04/26/12	1000	water	grab	Blank	120502-39

Relinquished By: Rachel F **Date:** 04/30/12 **Time:** 1000

Received By: [illegible] **Date:** 5/2/12 **Time:** 1320

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™

7010 2780 0003 6704 7730

UNITED STATES POSTAL SERVICE

1000

72118

U.S. POSTAGE
PAID
GREENLAND, AR
72737
JUN 15, 12
AMOUNT
$7.00

RETURN RECEIPT REQUESTED

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