

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for November 2012

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
11/07/2012	8:00 pm – 9:00 pm	1 hr.	1492 Tucson Loop Springdale, AR	300 gal	Grease/Excessive Paper	Jet Vac/Disinfected and Deodorized, Spread Lime on Affected Area.	None	Overflow from private cleanout into yard was absorbed into ground.
Date	Time	Duration	Address	Est. Vol.	Cause of overflow	Remedial Action	Environmental Impact	Discharge Location
Date	Time	Duration	Address	Est. Vol.	Cause of overflow	Remedial Action	Environmental Impact	Discharge Location
Date	Time	Duration	Address	Est. Vol.	Cause of overflow	Remedial Action	Environmental Impact	Discharge Location

“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 *Terry Phillips* Date 12-14-12



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**

December 14, 2012

Dear Sir or Madam:

Enclosed please find the results of fourth 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,

Terry Phillips
Acting Executive Director

JEE/jee

Enclosures

CC: Jennifer Enos, SWU
John Fazio, ADEQ
File



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 October 24, 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.

A handwritten signature in cursive script that reads 'Steve Bradford'.

Steve Bradford
Deputy 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:

Two (2) water sample(s) received on October 24, 2012
Table III
P.O. No. 0017149 00

Receipt Details:

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

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

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
161946-1	Influent 10/22-23/12 1100-1100	23-Oct-2012 1100	
161946-2	Influent 10/22-23/12 1100, 1700, 2300, 0600	23-Oct-2012 0600	

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", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS
AIC No. 161946-1
Sample Identification: Influent 10/22-23/12 1100-1100

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Recoverable Antimony EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 60 Analyzed: 29-Oct-2012 1945 by 305	60	ug/l Batch: S33371	
Total Recoverable Arsenic EPA 200.8 Prep: 24-Oct-2012 1540 by 100	1.0 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Beryllium EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 0.5 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Cadmium EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 0.5 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Chromium EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 10 Analyzed: 29-Oct-2012 1945 by 305	10	ug/l Batch: S33371	
Total Recoverable Copper EPA 200.8 Prep: 24-Oct-2012 1540 by 100	30 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Lead EPA 200.8 Prep: 24-Oct-2012 1540 by 100	1.3 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Molybdenum EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 8 Analyzed: 29-Oct-2012 1945 by 305	8	ug/l Batch: S33371	
Total Recoverable Nickel EPA 200.8 Prep: 24-Oct-2012 1540 by 100	9.0 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Selenium EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 5 Analyzed: 29-Oct-2012 1945 by 305	5	ug/l Batch: S33371	
Total Recoverable Silver EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 0.5 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Thallium EPA 200.8 Prep: 24-Oct-2012 1540 by 100	< 0.5 Analyzed: 29-Oct-2012 1945 by 305	0.5	ug/l Batch: S33371	
Total Recoverable Zinc EPA 200.8 Prep: 24-Oct-2012 1540 by 100	140 Analyzed: 29-Oct-2012 1945 by 305	20	ug/l Batch: S33371	

AIC No. 161946-2
Sample Identification: Influent 10/22-23/12 1100, 1700, 2300, 0600

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Recoverable Phenolics EPA 420.1 Prep: 26-Oct-2012 0854 by 306	250 Analyzed: 26-Oct-2012 1530 by 306	5	ug/l Batch: W41461	
Total Cyanide SM 4500-CN C,E Prep: 29-Oct-2012 1039 by 306	< 10 Analyzed: 29-Oct-2012 1646 by 306	10	ug/l Batch: W41480	



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	94.9	85.0-115			W41461	26Oct12 0854 by 306	26Oct12 1530 by 306		
Total Cyanide	0.1 mg/l	93.3	85.0-115			W41480	29Oct12 1039 by 306	29Oct12 1638 by 306		
Total Recoverable Antimony	0.05 mg/l	90.8	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Arsenic	0.05 mg/l	91.3	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Beryllium	0.05 mg/l	102	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Cadmium	0.05 mg/l	92.7	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Chromium	0.05 mg/l	99.4	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Copper	0.05 mg/l	93.2	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Lead	0.05 mg/l	94.8	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Molybdenum	0.05 mg/l	96.4	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Nickel	0.05 mg/l	94.5	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Selenium	0.05 mg/l	93.1	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Silver	0.02 mg/l	93.5	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Thallium	0.05 mg/l	108	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		
Total Recoverable Zinc	0.05 mg/l	92.5	85.0-115			S33371	24Oct12 1541 by 100	29Oct12 1916 by 305		

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	161978-1	0.1 mg/l	91.5	80.0-120	W41461	26Oct12 0854 by 306	26Oct12 1530 by 306		
	161978-1	0.1 mg/l	90.5	80.0-120	W41461	26Oct12 0854 by 306	26Oct12 1530 by 306		
	Relative Percent Difference:		0.985	10.0	W41461				
Total Cyanide	162001-1	0.1 mg/l	87.6	75.0-125	W41480	29Oct12 1039 by 306	29Oct12 1642 by 306		
	162001-1	0.1 mg/l	87.2	75.0-125	W41480	29Oct12 1039 by 306	29Oct12 1644 by 306		
	Relative Percent Difference:		0.447	20.0	W41480				
Total Recoverable Antimony	161943-1	0.05 mg/l	93.1	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	92.2	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.971	20.0	S33371				
Total Recoverable Arsenic	161943-1	0.05 mg/l	96.3	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	95.6	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.673	20.0	S33371				
Total Recoverable Beryllium	161943-1	0.05 mg/l	95.9	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	94.6	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		1.36	20.0	S33371				
Total Recoverable Cadmium	161943-1	0.05 mg/l	90.8	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	90.0	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.754	20.0	S33371				
Total Recoverable Chromium	161943-1	0.05 mg/l	95.0	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	94.4	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.589	20.0	S33371				
Total Recoverable Copper	161943-1	0.05 mg/l	82.6	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	85.4	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		2.99	20.0	S33371				
Total Recoverable Lead	161943-1	0.05 mg/l	99.1	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	98.0	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		1.05	20.0	S33371				
Total Recoverable Molybdenum	161943-1	0.05 mg/l	113	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	111	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		1.41	20.0	S33371				
Total Recoverable Nickel	161943-1	0.05 mg/l	87.2	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	86.9	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.171	20.0	S33371				
Total Recoverable Selenium	161943-1	0.05 mg/l	94.5	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	95.0	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.387	20.0	S33371				
Total Recoverable Silver	161943-1	0.02 mg/l	87.7	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.02 mg/l	87.9	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.259	20.0	S33371				
Total Recoverable Thallium	161943-1	0.05 mg/l	116	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	115	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.816	20.0	S33371				
Total Recoverable Zinc	161943-1	0.05 mg/l	79.5	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1920 by 305		
	161943-1	0.05 mg/l	79.1	75.0-125	S33371	24Oct12 1541 by 100	29Oct12 1924 by 305		
	Relative Percent Difference:		0.180	20.0	S33371				



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W41461-1	26Oct12 0854 by 306	26Oct12 1530 by 306	
Total Cyanide	< 0.005 mg/l	0.005	0.005	W41480-1	29Oct12 1039 by 306	29Oct12 1636 by 306	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S33371-1	24Oct12 1541 by 100	29Oct12 1912 by 305	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>SPRINGDALE WATER UTILITIES</u>			PO No.		No of BOTTLES	Analyses Requested										AIC Control No: <u>161946</u>		
Project Reference: <u>TABLE III</u>			Sample Matrix			P P G	T. METALS + MO (-Hg)	T. CYANIDE	T. PHENOLICS								AIC Proposal No:	
Project Manager: <u>BRAD STEWART</u>			W	S													Carrier: <u>FED EX</u>	
Sampled By: <u>OPERATIONS STAFF</u>			G	C	1	✓	✓	✓	✓								Received Temperature °C <u>2</u>	
AIC No.	Sample Identification	Date/Time Collected	A	O													Remarks	
<u>1</u>	<u>INFLUENT</u>	<u>1100 - 1100</u> <u>10/22-23/12</u>		✓	<u>1</u>	✓												
<u>2</u>	<u>INFLUENT</u>	<u>1100, 1100, 2300, 0600</u> <u>10/22-23/12</u>	✓		<u>1</u>		✓											
<u>2</u>	<u>INFLUENT</u>	<u>1100, 700, 2300, 0600</u> <u>10/22-23/12</u>	✓		<u>1</u>			✓										
Container Type						<u>P</u>	<u>P</u>	<u>G</u>								Field pH calibration on _____ @ _____		
Preservative						<u>N</u>	<u>AB</u>	<u>S</u>								Buffer:		
G = Glass NO = none			P = Plastic S = Sulfuric acid pH2			V = VOA vials N = Nitric acid pH2			H = HCl to pH2 B = NaOH to pH12			T = Sodium Thiosulfate Z = Zinc acetate						
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS					Relinquished By: <u>M. Phillips</u>			Date/Time: <u>10/23/12 1115</u>			Received By:			Date/Time				
Expedited results requested by: <u>BRAD STEWART N/A</u>					Relinquished By: <u>0</u>			Date/Time:			Received in Lab By: <u>Laura Hopton</u>			Date/Time: <u>10-24-12 1045</u>				
Who should AIC contact with questions: <u>BRAD STEWART</u>					Comments: <u>0457662 15101736</u>													
Phone: <u>479-756-3659</u> Fax: <u>479-756-7195</u>																		
Report Attention to: <u>BRAD STEWART</u>																		
Report Address to: <u>P.O. Box 769</u> <u>SPRINGDALE AR. 72762</u>																		

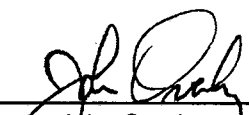


Springdale Water Utilities
ATTN: Mr. Brad Stewart
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Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on October 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.



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:

Two (2) water and one (1) sludge sample(s) received on October 30, 2012
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>
162089-1	Effluent 10/25/12 0000,0600,1200,1800	25-Oct-2012 1800	
162089-2	Effluent 10/26-27/12 0000-2400	27-Oct-2012 2359	
162089-3	Belt Press Influent 10/29/12 0830	29-Oct-2012 0830	

Qualifiers:

- Q Analyte is not within quality control limits
- X Spiking level is invalid due to the high concentration of analyte in the spiked sample

Case Narrative:

Matrix spike for batch S33411 was not performed on any sample associated with AIC Control No. 162089.

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

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS
AIC No. 162089-1
Sample Identification: Effluent 10/25/12 0000,0600,1200,1800

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Recoverable Phenolics EPA 420.1	5.1	5	ug/l	
Prep: 31-Oct-2012 0841 by 306	Analyzed: 01-Nov-2012 1000 by 306		Batch: W41494	
Total Cyanide SM 4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 31-Oct-2012 0905 by 306	Analyzed: 02-Nov-2012 1003 by 306		Batch: W41495	

AIC No. 162089-2
Sample Identification: Effluent 10/26-27/12 0000-2400

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Arsenic EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Copper EPA 200.8	6.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Lead EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Nickel EPA 200.8	5.3	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	
Total Recoverable Zinc EPA 200.8	46	20	ug/l	
Prep: 30-Oct-2012 1436 by 100	Analyzed: 01-Nov-2012 1511 by 305		Batch: S33404	

AIC No. 162089-3
Sample Identification: Belt Press Influent 10/29/12 0830

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide EPA 9010C, 9014	< 2	2	mg/Kg	
Prep: 31-Oct-2012 1006 by 306	Analyzed: 31-Oct-2012 1504 by 306		Batch: W41497	

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ANALYTICAL RESULTS
AIC No. 162089-3 (Continued)
Sample Identification: Belt Press Influent 10/29/12 0830

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Solids		4.5	0.01	%	
SM 2540 G	Prep: 30-Oct-2012 1453 by 302	Analyzed: 31-Oct-2012 0943 by 302		Batch: W41492	
Antimony		< 3	3	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Arsenic		< 5	5	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Beryllium		0.034	0.03	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Cadmium		0.62	0.4	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Chromium		26	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Copper		130	0.6	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Lead		4.1	4	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Molybdenum		6.5	0.8	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Nickel		19	1	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Selenium		< 7	7	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Silver		2.7	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Thallium		< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	
Zinc		310	0.2	mg/Kg	
EPA 3051A, 6010C	Prep: 31-Oct-2012 0834 by 100	Analyzed: 31-Oct-2012 1250 by 305		Batch: S33411	

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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	162089-3	4.5 %			30Oct12 1453 by 302	31Oct12 0943 by 302		
	Batch: W41492 Duplicate	4.6 %	1.68	10.0	30Oct12 1453 by 302	31Oct12 0943 by 302		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	91.8	85.0-115			W41494	31Oct12 0843 by 306	01Nov12 1000 by 306		
Total Cyanide	0.1 mg/l	102	85.0-115			W41495	31Oct12 0906 by 306	02Nov12 1001 by 306		
Total Recoverable Antimony	0.05 mg/l	85.4	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Arsenic	0.05 mg/l	86.4	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Beryllium	0.05 mg/l	88.7	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Cadmium	0.05 mg/l	87.4	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Chromium	0.05 mg/l	89.3	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Copper	0.05 mg/l	92.1	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Lead	0.05 mg/l	91.4	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Molybdenum	0.05 mg/l	106	85.0-115			S33404	30Oct12 0842 by 100	31Oct12 1704 by 305		
Total Recoverable Nickel	0.05 mg/l	91.8	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Selenium	0.05 mg/l	86.9	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Silver	0.02 mg/l	88.7	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Thallium	0.05 mg/l	98.7	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Recoverable Zinc	0.05 mg/l	88.2	85.0-115			S33404	30Oct12 0842 by 100	30Oct12 1054 by 305		
Total Cyanide	0.500 mg/Kg	99.6	85.0-115			W41497	31Oct12 1006 by 306	31Oct12 1502 by 306		
Antimony	500 mg/Kg	101	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Arsenic	500 mg/Kg	98.9	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Beryllium	50.0 mg/Kg	97.8	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Cadmium	500 mg/Kg	99.2	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Chromium	50.0 mg/Kg	98.7	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Copper	50.0 mg/Kg	99.2	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Lead	500 mg/Kg	99.4	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Molybdenum	50.0 mg/Kg	99.3	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Nickel	50.0 mg/Kg	99.2	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Selenium	500 mg/Kg	101	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Silver	10.0 mg/Kg	113	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Thallium	500 mg/Kg	105	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		
Zinc	50.0 mg/Kg	97.3	85.0-115			S33411	31Oct12 0834 by 100	31Oct12 1215 by 305		

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	162089-1	0.1 mg/l	86.0	80.0-120	W41494	31Oct12 0843 by 306	01Nov12 1000 by 306		
	162089-1	0.1 mg/l	86.7	80.0-120	W41494	31Oct12 0843 by 306	01Nov12 1000 by 306		
	Relative Percent Difference:		0.765	10.0	W41494				
Total Cyanide	162089-1	0.1 mg/l	90.1	75.0-125	W41495	31Oct12 0906 by 306	02Nov12 1004 by 306		
	162089-1	0.1 mg/l	91.7	75.0-125	W41495	31Oct12 0906 by 306	02Nov12 1006 by 306		
	Relative Percent Difference:		1.66	20.0	W41495				
Total Recoverable Antimony	162023-1	0.05 mg/l	91.2	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	90.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		1.19	20.0	S33404				
Total Recoverable Arsenic	162023-1	0.05 mg/l	91.5	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	91.2	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.377	20.0	S33404				
Total Recoverable Beryllium	162023-1	0.05 mg/l	93.8	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	94.0	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.112	20.0	S33404				
Total Recoverable Cadmium	162023-1	0.05 mg/l	90.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	90.0	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.158	20.0	S33404				
Total Recoverable Chromium	162023-1	0.05 mg/l	93.0	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	92.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.957	20.0	S33404				
Total Recoverable Copper	162023-1	0.05 mg/l	92.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	91.7	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.359	20.0	S33404				
Total Recoverable Lead	162023-1	0.05 mg/l	95.5	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	94.6	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.961	20.0	S33404				
Total Recoverable Molybdenum	162023-1	0.05 mg/l	98.9	75.0-125	S33404	30Oct12 0842 by 100	31Oct12 1708 by 305		
	162023-1	0.05 mg/l	100	75.0-125	S33404	30Oct12 0842 by 100	31Oct12 1713 by 305		
	Relative Percent Difference:		1.11	20.0	S33404				
Total Recoverable Nickel	162023-1	0.05 mg/l	94.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	92.7	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		1.43	20.0	S33404				
Total Recoverable Selenium	162023-1	0.05 mg/l	91.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	91.1	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.0160	20.0	S33404				
Total Recoverable Silver	162023-1	0.02 mg/l	97.2	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.02 mg/l	97.0	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.118	20.0	S33404				
Total Recoverable Thallium	162023-1	0.05 mg/l	105	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	103	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		1.31	20.0	S33404				
Total Recoverable Zinc	162023-1	0.05 mg/l	75.0	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1058 by 305		
	162023-1	0.05 mg/l	75.0	75.0-125	S33404	30Oct12 0842 by 100	30Oct12 1103 by 305		
	Relative Percent Difference:		0.00	20.0	S33404				
Total Cyanide	162089-3	0.988 mg/Kg	91.2	75.0-125	W41497	31Oct12 1006 by 306	31Oct12 1505 by 306		
	162089-3	0.996 mg/Kg	89.9	75.0-125	W41497	31Oct12 1006 by 306	31Oct12 1507 by 306		
	Relative Percent Difference:		1.52	20.0	W41497				
Antimony	162101-1	500 mg/Kg	50.7	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		Q
	162101-1	498 mg/Kg	53.1	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		Q
	Relative Percent Difference:		4.87	20.0	S33411				

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Arsenic	162101-1	500 mg/Kg	83.7	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	498 mg/Kg	83.1	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.618	20.0	S33411				
Beryllium	162101-1	50.0 mg/Kg	89.0	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	49.8 mg/Kg	88.7	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.263	20.0	S33411				
Cadmium	162101-1	500 mg/Kg	87.3	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	498 mg/Kg	87.3	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.0274	20.0	S33411				
Chromium	162101-1	50.0 mg/Kg	83.0	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	49.8 mg/Kg	81.6	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.851	20.0	S33411				
Copper	162101-1	50.0 mg/Kg	99.6	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	49.8 mg/Kg	98.3	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		1.11	20.0	S33411				
Lead	162101-1	500 mg/Kg	88.3	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	498 mg/Kg	88.0	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.307	20.0	S33411				
Molybdenum	162101-1	50.0 mg/Kg	80.8	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	49.8 mg/Kg	81.5	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.939	20.0	S33411				
Nickel	162101-1	50.0 mg/Kg	86.0	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	49.8 mg/Kg	85.6	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.357	20.0	S33411				
Selenium	162101-1	500 mg/Kg	78.2	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	498 mg/Kg	77.5	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.820	20.0	S33411				
Silver	162101-1	9.99 mg/Kg	102	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	9.95 mg/Kg	103	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.252	20.0	S33411				
Thallium	162101-1	500 mg/Kg	95.1	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		
	162101-1	498 mg/Kg	94.8	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		
	Relative Percent Difference:		0.349	20.0	S33411				
Zinc	162101-1	50.0 mg/Kg	-	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1219 by 305		X
	162101-1	49.8 mg/Kg	-	75.0-125	S33411	31Oct12 0834 by 100	31Oct12 1224 by 305		X
	Relative Percent Difference:		0.466	20.0	S33411				

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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W41494-1	31Oct12 0843 by 306	01Nov12 1000 by 306	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W41495-1	31Oct12 0906 by 306	02Nov12 0959 by 306	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S33404-1	30Oct12 0842 by 100	31Oct12 1700 by 305	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S33404-1	30Oct12 0842 by 100	30Oct12 1050 by 305	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W41497-1	31Oct12 1006 by 306	31Oct12 1500 by 306	
Total Solids	< 0.01 %	0.01	0.01	W41492-1	30Oct12 1453 by 302	31Oct12 0943 by 302	
Antimony	< 3 mg/Kg	3	3	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Arsenic	< 5 mg/Kg	5	5	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Chromium	< 0.7 mg/Kg	0.7	0.7	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Copper	< 0.6 mg/Kg	0.6	0.6	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Lead	< 4 mg/Kg	4	4	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Nickel	< 1 mg/Kg	1	1	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Selenium	< 7 mg/Kg	7	7	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Silver	< 0.7 mg/Kg	0.7	0.7	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Thallium	< 4 mg/Kg	4	4	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	
Zinc	< 0.2 mg/Kg	0.2	0.2	S33411-1	31Oct12 0834 by 100	31Oct12 1209 by 305	



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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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Client: <u>SPRINGDALE WATER UTILITIES</u>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED								AIC CONTROL NO: <u>162099</u>				
Project Reference: <u>TABLE III</u>			SAMPLE MATRIX			T. CYANIDE	PHENOLICS	PP METALS + MO - Hg	PP METALS + MO (-Hg), CAL.T						AIC PROPOSAL NO:			
Project Manager: <u>BRAD STEWART</u>			G R A M P	W A T E R	S O I L	S L U D G E	B O T T L E S	T. CYANIDE	PHENOLICS	PP METALS + MO - Hg	PP METALS + MO (-Hg), CAL.T						Carrier: <u>FEDEX</u>	
Sampled By: <u>OPERATIONS STAFF</u>																	Received on Ice (4°C)? <u>YES</u> NO	
AIC No.	Sample Identification	Date/Time Collected	G R A M P	W A T E R	S O I L	S L U D G E	B O T T L E S	T. CYANIDE	PHENOLICS	PP METALS + MO - Hg	PP METALS + MO (-Hg), CAL.T							Remarks
1	EFFLUENT	0000, 0600, 1200, 1800 10/25/12	✓	✓			1	✓										
1	EFFLUENT	0000, 0600, 1200, 1800 10/25/12	✓	✓			1		✓									
2	EFFLUENT	0000 - 2400 10/26 - 26/12		✓	✓		1			✓								
3	BELT PRESS INFLOW	0830 10/29/12	✓		✓		1				✓							
Container Type								B	G	P	G	Field pH calibration						
Preservative								B	S	N	NO	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) <u>NORMAL</u> or EXPEDITED IN _____ DAYS							Relinquished By: <u>Josh W...</u>		Date/Time: <u>10/29/12 - 1230</u>		Received By:		Date/Time:					
Expedited results requested by: <u>N/A</u>							Relinquished By:		Date/Time:		Received in Lab By: <u>Dean P...</u>		Date/Time: <u>10-30-12 12:00pm</u>					
Who should AIC contact with questions: <u>BRAD STEWART</u>							Comments: <u>1 (9612417) 045766215102450</u>											
Phone: <u>479-756-3659</u> Fax: <u>479-750-7195</u>																		
Report Attention to: <u>BRAD STEWART</u>																		
Report Address to: <u>P.O. BOX 769</u> <u>SPRINGDALE, AR 72762</u>																		

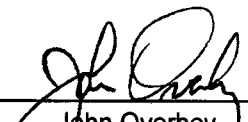


Springdale Water Utilities
ATTN: Mr. Brad Stewart
Post Office Box 769
Springdale, AR 72762

This report contains the analytical results and supporting information for the sample submitted on November 14, 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



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

SAMPLE INFORMATION

Project Description:

One (1) sludge sample(s) (AIC Control No.162089-3) resubmitted November 14, 2012
Table III

Receipt Details:

A Chain of Custody was provided with the sample(s).

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>
162536-1	Belt Press Influent	10/29/12 0830	29-Oct-2012 0830

Case Narrative:

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

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 162536-1

Sample Identification: Belt Press Influent 10/29/12 0830

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Mercury EPA 7471B	0.30	0.1	mg/Kg	
	Prep: 19-Nov-2012 1402 by 271	Analyzed: 20-Nov-2012 2115 by 271	Batch: S33518	



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Mercury	1.25 mg/Kg	94.4	85.0-115			S33518	19Nov12 1403 by 271	20Nov12 2045 by 271		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Mercury	162545-1	1.21 mg/Kg	91.0	70.0-130	S33518	19Nov12 1403 by 271	20Nov12 2100 by 271		
	162545-1	1.24 mg/Kg	95.5	70.0-130	S33518	19Nov12 1403 by 271	20Nov12 2105 by 271		
		Relative Percent Difference:	4.53	20.0	S33518				

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Mercury	< 0.1 mg/Kg	0.1	0.1	S33518-1	19Nov12 1403 by 271	20Nov12 2040 by 271	



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

162536

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 01 OF 01

Client: <u>SPRINGDALE WATER UTILITIES</u>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED								AIC CONTROL NO: <u>162049926</u>				
Project Reference: <u>TABLE III</u>			SAMPLE MATRIX			T. CYANIDE	PHENOLICS	PP METALS + MO -Hg	PP METALS + MO (-Hg)	Cu, I								
Project Manager: <u>BRAD STEWART</u>			WATER	SOIL	S													
Sampled By: <u>OPERATIONS STAFF</u>						GRA	COMP									Received on Ice (4°C)? <u>YES</u> NO		
AIC No.	Sample Identification	Date/Time Collected																Remarks
1	EFFLUENT	<u>0000, 0600, 1200, 1800</u> 10/25/12	✓															
1	EFFLUENT	<u>0000, 0600, 1200, 1800</u> 10/25/12	✓					✓										
2	EFFLUENT	<u>0000 - 2400</u> 10/26 - 28/12		✓	✓				✓									
① 3	BELT PRESS INFLOW	<u>0830</u> 10/29/12	✓			✓				✓								
Container Type																	Field pH calibration	
Preservative																	on _____ @ _____	
G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate			NO = none S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12 Z = Zinc acetate															
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS						Relinquished By: <u>[Signature]</u>		Date/Time: <u>10/29/12 - 1230</u>		Received By:		Date/Time						
Expedited results requested by: <u>N/A</u>						Relinquished By:		Date/Time		Received in Lab By: <u>[Signature]</u>		Date/Time: <u>10-30-12 12:00pm</u>						
Who should AIC contact with questions: <u>BRAD STEWART</u>						Comments: <u>(9612417) 045766215102450</u>												
Phone: <u>479-756-3659</u> Fax: <u>479-750-7195</u>																		
Report Attention to: <u>BRAD STEWART</u>																		
Report Address to: <u>P.O. BOX 769</u> <u>SPRINGDALE, AR 72762</u>																		

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

CERTIFIED MAIL™

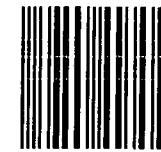


7010 2780 0003 6704 7785

Return Receipt Requested



1000



72118

U.S. POSTAGE
PAID
SPRINGDALE, AR
72764
DEC 14, 12
AMOUNT

\$7.20
00034086-10

ADEQ
NPDES ENFORCEMENT SECTION
5301 NORTSHORE DRIVE
NORTH LITTLE ROCK, AR 72118-5317