### Anderson, Alan

From: Steven Gorszczyk <sgorszczyk@siloamsprings.com>

**Sent:** Wednesday, October 07, 2015 5:35 PM

**To:** Anderson, Alan **Subject:** FW: Report

Attachments: City of Siloam Springs BI50140 10-6-15.pdf; ETG Report\_Project Feedback Form.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Alan,

In accordance with 24-hour notification per our NPDES permit, I have attached the analytical report regarding exceedance of BOD, TSS, and phosphorus.

Please advise if there are any questions.

Thanks,

### **Steve Gorszczyk**

Water/Wastewater Manager City of Siloam Springs 479-238-0935 Office 479-228-4888 Cell sgorszczyk@siloamsprings.com



From: Tom Myers

Sent: Tuesday, October 06, 2015 3:59 PM

To: Steven Gorszczyk <sgorszczyk@siloamsprings.com>

Subject: Fw: Report

From: Emily Brooks < <a href="mailto:emily@etestg.com">emily@etestg.com</a>>
Sent: Tuesday, October 06, 2015 3:53:09 PM

To: Tom Myers

Cc: Deanna Blankenship

Subject: Report

Hi Mr. Myers,

Attached please find your report.

**Emily Brooks** 

Environmental Testing Group, Inc.

### (479) 271-7996

### CONFIDENTIALITY STATEMENT

This electronic message transmission contains information from Environmental Testing Group, Inc. ("ETG"), and is confidential or privileged. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, be aware that any review, disclosure, printing, copying, distribution, retransmission, dissemination or other use of the information and/or contents of this message is prohibited. If you receive this message in error, please contact the sender immediately by email and delete any and all copies of this message from your computer(s).



1702 East Central Avenue Suite 10 Bentonville, AR 72712 479-271-7996 phone 479-271-8394 fax

10/06/15 15:43

Client: City of Siloam Springs Work Order: Project Name:

PO Box 80

Effluent Project Number:

Siloam Springs AR, 72761

Effluent

BI50140

Tom Myers

Date Received: 09/30/15

Sample ID Laboratory ID **Date and Time Sampled** Sampled By Sample Type 09/29/15 10:00 - 09/30/15 09:00 Effluent BI50140-01 Jack Harrison Composite BI50140-02 09/29/15 10:00 - 09/30/15 09:00 influent Jack Harrison Composite

**Comments:** 

Attn:

Samples were received into laboratory at a temperature of 4.00 °C

Dil a. Dam

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at (479)271-7996. Any opinions, if expressed, are outside the scope of the laboratory's accreditation.

This report and any attachment(s) contains information from Environmental Testing Group, Inc ("ETG"), and is confidential and privileged. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, be aware that any review, disclosure, printing, copying, distribution, retransmission, dissemination or other use of the information and/or contents of this message is prohibited. If you receive this message in error, please contact the sender immediately and delete any and all copies of this message from your computer(s).

These results relate only to the items tested. Estimated uncertainty is available upon request. This report has been electronically signed. Results are reported on a wet weight basis unless otherwise noted.

David D'Amico

Laboratory Director



1702 East Central Avenue Suite 10 Bentonville, AR 72712 479-271-7996 phone 479-271-8394 fax

10/06/15 15:43

Client: City of Siloam Springs

PO Box 80

Siloam Springs AR, 72761

Attn: Tom Myers

Work Order: BI50140

Project Name: Effluent
Project Number: Effluent

Date Received: 09/30/15

### **Environmental Testing Group**

### Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BI50140-01 (Water) Sampled: 09/30	V15 09:00			Client S	ample Nar	me: Effluent			
Ammonia as N	0.272		mg/L	0.250	2.5	10/05/15 15:51	JCH	EPA 350.1	B5J0502
Carbonaceous BOD	37.0	G	"	1.00	1	09/30/15 14:30	JCH	SM 5210B CBOD	B5I3003
Nitrate Nitrogen	ND		"	0.200	"	10/02/15 16:52	JCH	[CALC]	[CALC]
Nitrate/Nitrite as N	ND		"	0.100	"	"	JCH	EPA 353.2	B5J0203
Nitrite as N	0.0487	J	"	0.100	"	09/30/15 22:20	JCH	"	B5I3008
Phosphorus, Total as P	1.73		"	0.0500	"	10/06/15 14:46	JCH	EPA 365.1	B5J0605
<b>Total Suspended Solids</b>	40.8		"	1.00	"	10/01/15 15:39	JSH	USGS I-3765-85	B5J0102
BI50140-02 (Water) Sampled: 09/30	/15 09:00			Client S	ample Nar	me: influent			
Ammonia as N	22.4		mg/L	0.500	5	10/05/15 15:51	JCH	EPA 350.1	B5J0502
Biochemical Oxygen Demand	315		"	1.00	1	09/30/15 14:30	JCH	SM 5210B	B5I3003
Nitrate Nitrogen	ND		"	0.200	"	10/02/15 16:52	JCH	[CALC]	[CALC]
Nitrate/Nitrite as N	0.102		"	0.100	"	"	JCH	EPA 353.2	B5J0203
Nitrite as N	0.0449	J	"	0.100	"	09/30/15 22:20	JCH	"	B5I3008
Phosphorus, Total as P	4.75		"	0.500	10	10/06/15 14:46	JCH	EPA 365.1	B5J0605
<b>Total Suspended Solids</b>	194		"	1.00	1	10/01/15 15:39	JSH	USGS I-3765-85	B5J0102



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10/06/15 15:43

Client: City of Siloam Springs

PO Box 80

Siloam Springs AR, 72761

Attn: Tom Myers

Work Order:

BI50140

Project Name:

Effluent

Project Number:

Effluent

Date Received:

09/30/15

### $Chemistry\ Parameters\ by\ APHA/EPA\ Methods\ -\ Quality\ Control$

### **Environmental Testing Group**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5I3003 - Wet Prep										
Blank (B5I3003-BLK1)				Prepared &	t Analyzed:	09/30/15				
Biochemical Oxygen Demand	ND	1.00	mg/L	1 repared 6	c Anaryzeu.	07/30/13				
Carbonaceous BOD	ND	1.00	mg/L							
LCS (B5I3003-BS1)				Prepared &	λ Analyzed:	09/30/15				
Biochemical Oxygen Demand	226		mg/L	198		114	84.6-115.4			
Carbonaceous BOD	220		"	198		111	84.6-115.4			
Duplicate (B5I3003-DUP1)	Sourc	e: BI50122-	01	Prepared &	ኔ Analyzed:	09/30/15				
Biochemical Oxygen Demand	289	1.00	mg/L		315			8.61	15	
Duplicate (B5I3003-DUP2)	Sourc	e: BI50135-	01	Prepared &	ኔ Analyzed:	09/30/15				
Biochemical Oxygen Demand	352	1.00	mg/L		360			2.25	15	
Batch B5I3008 - Wet Prep										
Blank (B5I3008-BLK1)				Prepared &	ኔ Analyzed:	09/30/15				
Nitrite as N	ND	0.100	mg/L							
LCS (B5I3008-BS1)				Prepared &	ኔ Analyzed:	09/30/15				
Nitrite as N	8.010	0.100	mg/L	8.00		100	90-110			
Matrix Spike (B5I3008-MS1)	Sourc	e: BI50140-	01	Prepared &	ኔ Analyzed:	09/30/15				
Nitrite as N	4.000	0.100	mg/L	4.00	0.04870	98.8	90-110			
Matrix Spike Dup (B5I3008-MSD1)	Sourc	e: BI50140-	01	Prepared &	ኔ Analyzed:	09/30/15				
Nitrite as N	4.020	0.100	mg/L	4.00	0.04870	99.3	90-110	0.499	3.29	



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10/06/15 15:43

Client: City of Siloam Springs

PO Box 80

Siloam Springs AR, 72761

Attn: Tom Myers

Work Order: BI50140

Project Name: Project Number: Effluent Effluent

Date Received:

09/30/15

### Chemistry Parameters by APHA/EPA Methods - Quality Control

### **Environmental Testing Group**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5J0102 - Wet Prep										
Blank (B5J0102-BLK1)				Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	ND	1.00	mg/L							
Blank (B5J0102-BLK2)				Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	ND	1.00	mg/L							
LCS (B5J0102-BS1)				Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	39.3	1.00	mg/L	40.0		98.2	80-120			
LCS Dup (B5J0102-BSD1)				Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	39.2	1.00	mg/L	40.0		98.0	80-120	0.255	20	
Duplicate (B5J0102-DUP1)	Sourc	e: BI50115-	01	Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	1190	1.00	mg/L		1260			5.71	21.9	
Duplicate (B5J0102-DUP2)	Sourc	e: BI50124-	01	Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	194	1.00	mg/L		198			2.04	21.9	
Duplicate (B5J0102-DUP3)	Sourc	e: BI50137-	01	Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	62.0	1.00	mg/L		58.0			6.67	21.9	
Duplicate (B5J0102-DUP4)	Sourc	e: BJ50005-	01	Prepared &	Analyzed:	10/01/15				
Total Suspended Solids	48.0	1.00	mg/L		48.0			0.00	21.9	
Batch B5J0203 - Wet Prep										
Blank (B5J0203-BLK1)				Prepared &	Analyzed:	10/02/15		_		_
Nitrate/Nitrite as N	ND	0.100	mg/L	•						



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10/06/15 15:43

Client: City of Siloam Springs

PO Box 80

Siloam Springs AR, 72761

Attn: Tom Myers

Work Order: BI50140

Project Name:

Effluent

Project Number:

Effluent

Date Received: 09/30/15

### Chemistry Parameters by APHA/EPA Methods - Quality Control

### **Environmental Testing Group**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B5J0203 - Wet Prep										
LCS (B5J0203-BS1)				Prepared &	Analyzed:	10/02/15				
Nitrate/Nitrite as N	8.04	0.100	mg/L	8.00		100	90-110			
Matrix Spike (B5J0203-MS1)	Sourc	e: BI50129-	01	Prepared &	Analyzed:	10/02/15				
Nitrate/Nitrite as N	9.73	0.100	mg/L	4.00	6.06	91.7	90-110			
Matrix Spike Dup (B5J0203-MSD1)	Sourc	e: BI50129-	01	Prepared &	Analyzed:	10/02/15				
Nitrate/Nitrite as N	9.72	0.100	mg/L	4.00	6.06	91.5	90-110	0.103	10	
Batch B5J0502 - Wet Prep										
Blank (B5J0502-BLK1)				Prepared &	Analyzed:	10/05/15				
Ammonia as N	ND	0.100	mg/L							
LCS (B5J0502-BS1)				Prepared &	Analyzed:	10/05/15				
Ammonia as N	9.57	0.100	mg/L	10.0		95.7	90-110			
Matrix Spike (B5J0502-MS1)	Sourc	e: BI50140-	01	Prepared &	Analyzed:	10/05/15				
Ammonia as N	5.00		mg/L	5.00	0.109	97.8	90-110			
Matrix Spike (B5J0502-MS2)	Sourc	e: BJ50008-	01	Prepared &	Analyzed:	10/05/15				
Ammonia as N	4.81	0.100	mg/L	5.00	ND	96.2	90-110			
Matrix Spike Dup (B5J0502-MSD1)	Sourc	e: BI50140-	01	Prepared &	Analyzed:	10/05/15				
Ammonia as N	4.99		mg/L	5.00	0.109	97.6	90-110	0.200	10	
Matrix Spike Dup (B5J0502-MSD2)	Sourc	e: BJ50008-	01	Prepared &	Analyzed	10/05/15				
Ammonia as N	4.68	0.100	mg/L	5.00	ND	93.6	90-110	2.74	10	



1702 East Central Avenue Suite 10 Bentonville, AR 72712 479-271-7996 phone 479-271-8394 fax

RPD

10/06/15 15:43

Client: City of Siloam Springs

Work Order:

Reporting

BI50140

PO Box 80

Project Name:

Effluent

Siloam Springs AR, 72761

Project Number:

Effluent

Attn: Tom Myers

Date Received:

09/30/15

Source

%REC

Spike

### **Chemistry Parameters by APHA/EPA Methods - Quality Control**

### **Environmental Testing Group**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B5J0605 - Wet Prep										
Blank (B5J0605-BLK1)				Prepared &	Analyzed	10/06/15				
Phosphorus, Total as P	ND	0.0500	mg/L							
LCS (B5J0605-BS1)				Prepared &	Analyzed	10/06/15				
Phosphorus, Total as P	1.07	0.0500	mg/L	1.00		107	90-110			
Matrix Spike (B5J0605-MS1)	Source	ce: BI50140-	01	Prepared &	Analyzed	10/06/15				
Phosphorus, Total as P	2.15	0.0500	mg/L	0.500	1.73	84.0	90-110			#
Matrix Spike (B5J0605-MS2)	Source	ee: BJ50008-	02	Prepared &	Analyzed	10/06/15				
Phosphorus, Total as P	0.929	0.0500	mg/L	0.500	0.433	99.2	90-110			
Matrix Spike Dup (B5J0605-MSD1)	Source	ce: BI50140-	01	Prepared &	Analyzed	10/06/15				
Phosphorus, Total as P	2.20	0.0500	mg/L	0.500	1.73	94.0	90-110	2.30	6.01	
Matrix Spike Dup (B5J0605-MSD2)	Source	ce: BJ50008-	02	Prepared &	Analyzed	10/06/15				
Phosphorus, Total as P	0.931	0.0500	mg/L	0.500	0.433	99.6	90-110	0.215	6.01	

### **Notes and Definitions**

T	Estimated Value	Compound was	dotooted below	minimum	quantitation levels.
J	Estilliated value	. Combound was	s detected below	IIIIIIIIIIIIIIIIII	dualititation levels.

G Estimated Value. Value was greater than reported result.

# Recovery outside Laboratory historical or method prescribed limits.

ND Analyte NOT DETECTED at PQL ug/L Micrograms/Liter (PPB)

PQL Practical Quantitation Limit ug/Kg Micrograms/Kilogram (PPB)

mg/L Milligrams/Liter (PPM) dry Sample results reported on a dry weight basis

 $mg/Kg \qquad \qquad Milligrams/Kilogram \ (PPM)$ 



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10/06/15 15:43

Attn:

Client: City of Siloam Springs

PO Box 80

Siloam Springs AR, 72761

Tom Myers

Work Order: BI50140

Project Name: Project Number: Effluent

Effluent

Date Received: 09/30/15

### CERTIFICATIONS

### Certified Analyses included in this Report

Analysis	Certifications	
EPA 350.1	ADEQ,TNI	
Ammonia as N	ADEQ,TNI	
EPA 353.2	ADEQ,TNI	
Nitrate/Nitrite as N	ADEQ,TNI	
Nitrite as N	ADEQ,TNI	
EPA 365.1	ADEQ,TNI	
Phosphorus, Total as P	ADEQ,TNI	
SM 5210B	ADEQ,TNI	
Biochemical Oxygen Demand	ADEQ,TNI	
SM 5210B CBOD	ADEQ	
Carbonaceous BOD	ADEQ	
USGS I-3765-85	ADEQ,TNI	
Total Suspended Solids	ADEQ,TNI	
TI 11 4 4E : 41E 4 G I		

The laboratory at Environmental Testing Group Inc.operates under the following certifications and accreditations:

The accredited report results were obtained in compliance with 2009 TNI standards unless otherwise noted. For a complete list of accredited analytes, please contact your project manager.

Code	Description	Number	Expires
ADEQ	State of Arkansas	04-0574/09-071-0	10/19/2015
TNI	FL DOH	E871035	06/30/2016

## City of Siloam Springs

# CITY OF SILOAM SPRINGS

975 Anderson Avenue Siloam Springs, AR website: siloamsprings.com

Phone: 479-524-5623

Fax: 479-524-4653

CHAIN OF CUSTODY

P.O. Box 80

Siloam Springs, AR 72761

WATER POLLUTION CONTROL FACILITY

### BI50140-01 A Effluent

Sampled: 09/30/15 09:00 Water-.Work Order Label

City of Siloam Springs

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Telephone:	(479) 524-5623									NUTS STONE	ed s			W.Perkinson	rheDyn/Jystes	- Andrewsky	Talkensey Schild sign	
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G: MPSNDOCHORMSCHAIN XLS Cool all samples to 4 degrees C.

Chlorinated? Yes

S

This Document is Page 1 of 1