

Anderson, Alan

From: Steven Gorszczyk <sgorszczyk@siloomsprings.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@siloomsprings.com



From: Tom Myers
Sent: Tuesday, October 06, 2015 3:59 PM
To: Steven Gorszczyk <sgorszczyk@siloomsprings.com>
Subject: Fw: Report

From: Emily Brooks <emily@etestg.com>
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

Analytical Report

10/06/15 15:43

Client: City of Siloam Springs
PO Box 80
Siloam Springs AR, 72761

Work Order: BI50140
Project Name: Effluent
Project Number: Effluent

Attn: Tom Myers

Date Received: 09/30/15

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

Comments:

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

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



Analytical Report

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

Work Order: B150140
 Project Name: Effluent
 Project Number: Effluent

Attn: Tom Myers

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: 09/30/15 09:00

Client Sample Name: 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
Total Suspended Solids	40.8		"	1.00	"	10/01/15 15:39	JSH	USGS 1-3765-85	B5J0102

BI50140-02 (Water) Sampled: 09/30/15 09:00

Client Sample Name: 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
Total Suspended Solids	194		"	1.00	1	10/01/15 15:39	JSH	USGS 1-3765-85	B5J0102



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

Analytical Report

10/06/15 15:43

Client: City of Siloam Springs
 PO Box 80
 Siloam Springs AR, 72761

Work Order: BI50140
 Project Name: Effluent
 Project Number: Effluent

Attn: Tom Myers

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 B513003 - Wet Prep

Blank (B513003-BLK1)

Prepared & Analyzed: 09/30/15

Biochemical Oxygen Demand	ND	1.00	mg/L							
Carbonaceous BOD	ND	1.00	"							

LCS (B513003-BS1)

Prepared & 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 (B513003-DUP1)

Source: B150122-01

Prepared & Analyzed: 09/30/15

Biochemical Oxygen Demand	289	1.00	mg/L		315			8.61	15	
---------------------------	-----	------	------	--	-----	--	--	------	----	--

Duplicate (B513003-DUP2)

Source: B150135-01

Prepared & Analyzed: 09/30/15

Biochemical Oxygen Demand	352	1.00	mg/L		360			2.25	15	
---------------------------	-----	------	------	--	-----	--	--	------	----	--

Batch B513008 - Wet Prep

Blank (B513008-BLK1)

Prepared & Analyzed: 09/30/15

Nitrite as N	ND	0.100	mg/L							
--------------	----	-------	------	--	--	--	--	--	--	--

LCS (B513008-BS1)

Prepared & Analyzed: 09/30/15

Nitrite as N	8.010	0.100	mg/L	8.00	100	90-110				
--------------	-------	-------	------	------	-----	--------	--	--	--	--

Matrix Spike (B513008-MS1)

Source: B150140-01

Prepared & Analyzed: 09/30/15

Nitrite as N	4.000	0.100	mg/L	4.00	0.04870	98.8	90-110			
--------------	-------	-------	------	------	---------	------	--------	--	--	--

Matrix Spike Dup (B513008-MSD1)

Source: B150140-01

Prepared & 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	
--------------	-------	-------	------	------	---------	------	--------	-------	------	--



Analytical Report

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

Work Order: B150140
 Project Name: Effluent
 Project Number: Effluent

Attn: Tom Myers

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)				Source: B150115-01 Prepared & Analyzed: 10/01/15						
Total Suspended Solids	1190	1.00	mg/L		1260			5.71	21.9	
Duplicate (B5J0102-DUP2)				Source: B150124-01 Prepared & Analyzed: 10/01/15						
Total Suspended Solids	194	1.00	mg/L		198			2.04	21.9	
Duplicate (B5J0102-DUP3)				Source: B150137-01 Prepared & Analyzed: 10/01/15						
Total Suspended Solids	62.0	1.00	mg/L		58.0			6.67	21.9	
Duplicate (B5J0102-DUP4)				Source: 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							



Analytical Report

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

Work Order: BI50140
 Project Name: Effluent
 Project Number: Effluent

Attn: Tom Myers

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 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) Source: 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) Source: 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) Source: 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) Source: 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) Source: 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) Source: 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	



Analytical Report

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

Work Order: BI50140
 Project Name: Effluent
 Project Number: Effluent

Attn: Tom Myers

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 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: 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: 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: 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: 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

J Estimated Value. Compound was detected below minimum quantitation 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 Milligrams/Kilogram (PPM)



Analytical Report

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

Work Order: B150140
 Project Name: Effluent
 Project Number: Effluent

Attn: Tom Myers

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

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

WATER POLLUTION CONTROL FACILITY

975 Anderson Avenue
Siloam Springs, AR
P.O. Box 80
Siloam Springs, AR 72781
website: siloamsprings.com

Phone: 479-524-5623 Fax: 479-524-4653

CHAIN OF CUSTODY

B150140-01 A

Effluent
Sampled: 09/30/15 09:00
Water - Work Order Label
City of Siloam Springs

Client Information

Project Information

Requested Parameters

Company Name: Siloam Springs
Address: P.O. Box 80
410 N. Broadway
Siloam Springs, Ar 72761
Telephone: (479) 524-5623
FAX: (479) 524-4653

Permit/Project #: _____
Project Order #: 1001
Sampler Name(s): J. Harrison
and Signature(s): *J. Harrison*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

Sample Collection

Sample Containers

Identification	Lab Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	CBOD	Total Suspended Solids	NH3-N	BOD	NO3	TP
----------------	---------------	------	------	------	--------	------	--------	--------------	---	------	------------------------	-------	-----	-----	----

Effluent; Outfall 001	B150140-01	9/29/15	10:00	Comp	H2O	P	1 qt	Refrigerated	1	X	X				
-----------------------	------------	---------	-------	------	-----	---	------	--------------	---	---	---	--	--	--	--

Effluent; Outfall 001	B150140-02	9/30/15	09:00	Comp	H2O	P	500 ML	H2SO4 + Refrig	1	X	X				
-----------------------	------------	---------	-------	------	-----	---	--------	----------------	---	---	---	--	--	--	--

Influent		9/29/15	10:00	Comp	H2O	P	500 ML	H2SO4 + Refrig	1	X	X				
----------	--	---------	-------	------	-----	---	--------	----------------	---	---	---	--	--	--	--

Influent		9/30/15	09:00	Comp	H2O	P	1 qt	Refrigerated	1	X	X				
----------	--	---------	-------	------	-----	---	------	--------------	---	---	---	--	--	--	--

Relinquished By: (Signature and Printed Name) *JACK HARRISON* OSHA 19

Relinquished By: (Signature and Printed Name) *OSCAR T. COOK* OSHA 19

Relinquished By: (Signature and Printed Name) *OSCAR T. COOK* OSHA 19

Relinquished By: (Signature and Printed Name) *OSCAR T. COOK* OSHA 19

Relinquished By: (Signature and Printed Name) *OSCAR T. COOK* OSHA 19

Comments: Sampler Effluent Temp 3.4 C Start 3-20 Stop
Sampler Influent Temp 2.9 C Start 3-6 C Stop

G:\W\ENDDOC\FORMS\CHAIN X.s Cool all samples to 4 degrees C. Chlorinated? Yes No This Document is Page 1 of 1