

Anderson, Alan

From: Tom Myers <tmyers@siloamsprings.com>
Sent: Friday, June 10, 2016 1:22 PM
To: Anderson, Alan
Cc: Steven Gorszczyk; Jack Harrison
Subject: FW: Report
Attachments: City of Siloam Springs BF60007 6-10-16.pdf

Alan,

Some good news all are numbers are going down see attached report. Ammonia Nitrogen is over limits however the BOD and Total Suspended Solids have fallen. We are using two 6" trash pumps and adding hydrogen peroxide. Blower should get repaired today or tomorrow morning.

Thomas A. Myers
Wastewater Superintendent
City of Siloam Springs
Ph:479-524-5623
Cell:479-228-0934
tmyers@siloamsprings.com

From: Emily Brooks [<mailto:emily@etestg.com>]
Sent: Friday, June 10, 2016 12:42 PM
To: Jack Harrison; Steven Gorszczyk; Tom Myers
Subject: Report

Attached please find your analytical report(s).

We appreciate your business!

Emily Brooks
Environmental Testing Group, Inc.
1702 East Central Avenue
Bentonville, AR 72712
(479) 271-7996

CONFIDENTIALITY STATEMENT

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

Analytical Report

06/10/16 12:13

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

Work Order: BF60007
Project Name: Effluent-Influent
Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/01/16

Sample ID	Laboratory ID	Date and Time Sampled	Sampled By	Sample Type
Effluent, Outfall 001	BF60007-01	05/31/16 10:00 - 06/01/16 09:00	Jack Harrison	Composite
Influent	BF60007-02	05/31/16 10:00 - 06/01/16 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



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06/10/16 12:13

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Work Order: BF60007
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/01/16

Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
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BF60007-01 (Water) Sampled: 06/01/16 09:00

Client Sample Name: Effluent, Outfall 001

Ammonia as N	6.25		mg/L	0.500	5	06/08/16 12:19	JCH	EPA 350.1	B6F0703
Carbonaceous BOD	19.0		"	1.00	1	06/03/16 07:50	JCH	SM 5210B CBOD	B6F0304
Nitrate Nitrogen	ND		"	0.200	"	06/08/16 21:47	JCH	[CALC]	[CALC]
Nitrate/Nitrite as N	ND		"	0.100	"	"	JCH	EPA 353.2	B6F0804
Nitrite as N	ND		"	0.100	"	06/02/16 16:30	JCH	"	B6F0206
Phosphorus, Total as P	0.440		"	0.250	5	06/08/16 13:54	JCH	EPA 365.1	B6F0704
Total Suspended Solids	17.5		"	1.00	1	06/06/16 08:58	JCH	USGS 1-3765-85	B6F0601

BF60007-02 (Water) Sampled: 06/01/16 09:00

Client Sample Name: Influent

Ammonia as N	14.8		mg/L	0.500	5	06/08/16 12:19	JCH	EPA 350.1	B6F0703
Biochemical Oxygen Demand	181		"	1.00	1	06/03/16 07:50	JCH	SM 5210B	B6F0304
Nitrate Nitrogen	0.571		"	0.200	"	06/08/16 21:47	JCH	[CALC]	[CALC]
Nitrate/Nitrite as N	0.571		"	0.100	"	"	JCH	EPA 353.2	B6F0804
Nitrite as N	ND		"	0.100	"	06/02/16 16:30	JCH	"	B6F0206
Phosphorus, Total as P	4.33		"	0.500	10	06/08/16 13:54	JCH	EPA 365.1	B6F0704
Total Suspended Solids	122		"	1.00	1	06/06/16 08:58	JCH	USGS 1-3765-85	B6F0601



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Work Order: BF60007
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/01/16

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
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Batch B6F0206 - Wet Prep

Blank (B6F0206-BLK1) Prepared & Analyzed: 06/02/16

Nitrite as N	ND	0.100	mg/L							
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LCS (B6F0206-BS1) Prepared & Analyzed: 06/02/16

Nitrite as N	4.070	0.100	mg/L	4.00		102	90-110			
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Matrix Spike (B6F0206-MS1) Source: BF60007-01 Prepared & Analyzed: 06/02/16

Nitrite as N	1.980	0.100	mg/L	2.00	ND	98.1	90-110			
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Matrix Spike Dup (B6F0206-MSD1) Source: BF60007-01 Prepared & Analyzed: 06/02/16

Nitrite as N	1.980	0.100	mg/L	2.00	ND	98.1	90-110	0.00	3.29	
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Batch B6F0304 - Wet Prep

Blank (B6F0304-BLK1) Prepared & Analyzed: 06/03/16

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

LCS (B6F0304-BS1) Prepared & Analyzed: 06/03/16

Biochemical Oxygen Demand	228		mg/L	198		115	84.6-115.4			
Carbonaceous BOD	168		"	198		84.8	84.6-115.4			

Duplicate (B6F0304-DUP1) Source: BF60007-02 Prepared & Analyzed: 06/03/16

Biochemical Oxygen Demand	194	1.00	mg/L		181			6.93	15	
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Duplicate (B6F0304-DUP2) Source: BF60015-01 Prepared & Analyzed: 06/03/16

Carbonaceous BOD	344	1.00	mg/L		344			0.00	37.2	
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Work Order: BF60007
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/01/16

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
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Batch B6F0601 - Wet Prep

Blank (B6F0601-BLK1)				Prepared & Analyzed: 06/06/16						
Total Suspended Solids	ND	1.00	mg/L							
LCS (B6F0601-BS1)				Prepared & Analyzed: 06/06/16						
Total Suspended Solids	35.6	1.00	mg/L	40.0		89.0	80-120			
LCS (B6F0601-BS2)				Prepared & Analyzed: 06/06/16						
Total Suspended Solids	40.8	1.00	mg/L	40.0		102	80-120			
Duplicate (B6F0601-DUP1)				Source: BF60015-01			Prepared & Analyzed: 06/06/16			
Total Suspended Solids	84.0	1.00	mg/L		84.0			0.00	21.9	
Duplicate (B6F0601-DUP2)				Source: BF60024-01			Prepared & Analyzed: 06/06/16			
Total Suspended Solids	220	1.00	mg/L		216			1.83	21.9	
Duplicate (B6F0601-DUP3)				Source: BF60030-01			Prepared & Analyzed: 06/06/16			
Total Suspended Solids	160	1.00	mg/L		166			3.68	21.9	

Batch B6F0703 - Wet Prep

Blank (B6F0703-BLK1)				Prepared: 06/07/16 Analyzed: 06/08/16						
Ammonia as N	ND	0.100	mg/L							
LCS (B6F0703-BS1)				Prepared: 06/07/16 Analyzed: 06/08/16						
Ammonia as N	5.11	0.100	mg/L	5.00		102	90-110			
Matrix Spike (B6F0703-MS1)				Source: BF60007-01			Prepared: 06/07/16 Analyzed: 06/08/16			
Ammonia as N	3.15		mg/L	2.00	1.25	95.0	90-110			



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Work Order: BF60007
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/01/16

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
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Batch B6F0703 - Wet Prep

Matrix Spike (B6F0703-MS2)		Source: BF60023-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Ammonia as N	2.23	0.100	mg/L	2.00	0.139	105	90-110			
Matrix Spike Dup (B6F0703-MSD1)		Source: BF60007-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Ammonia as N	3.42		mg/L	2.00	1.25	108	90-110	8.22	10	
Matrix Spike Dup (B6F0703-MSD2)		Source: BF60023-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Ammonia as N	2.14	0.100	mg/L	2.00	0.139	100	90-110	4.12	10	

Batch B6F0704 - Wet Prep

Blank (B6F0704-BLK1)				Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	ND	0.0500	mg/L							
LCS (B6F0704-BS1)				Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	1.05	0.0500	mg/L	1.00		105	90-110			
Matrix Spike (B6F0704-MS1)		Source: BF60007-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	0.573		mg/L	0.500	ND	106	90-110			
Matrix Spike (B6F0704-MS2)		Source: BF60012-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	0.777	0.0500	mg/L	0.500	0.291	97.2	90-110			
Matrix Spike (B6F0704-MS3)		Source: BF60012-05		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	0.508	0.0500	mg/L	0.500	ND	102	90-110			
Matrix Spike (B6F0704-MS4)		Source: BF60022-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	1.12	0.0500	mg/L	0.500	0.648	94.4	90-110			



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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
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Batch B6F0704 - Wet Prep

Matrix Spike Dup (B6F0704-MSD1)		Source: BF60007-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	0.577		mg/L	0.500	ND	107	90-110	0.696	6.01	
Matrix Spike Dup (B6F0704-MSD2)		Source: BF60012-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	0.833	0.0500	mg/L	0.500	0.291	108	90-110	6.96	6.01	#
Matrix Spike Dup (B6F0704-MSD3)		Source: BF60012-05		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	0.517	0.0500	mg/L	0.500	ND	103	90-110	1.76	6.01	
Matrix Spike Dup (B6F0704-MSD4)		Source: BF60022-01		Prepared: 06/07/16 Analyzed: 06/08/16						
Phosphorus, Total as P	1.13	0.0500	mg/L	0.500	0.648	96.4	90-110	0.889	6.01	

Batch B6F0804 - Wet Prep

Blank (B6F0804-BLK1)		Prepared & Analyzed: 06/08/16								
Nitrate/Nitrite as N	ND	0.100	mg/L							
LCS (B6F0804-BS1)		Prepared & Analyzed: 06/08/16								
Nitrate/Nitrite as N	7.97	0.100	mg/L	8.00		99.6	90-110			
Matrix Spike (B6F0804-MS1)		Source: BE60128-01		Prepared & Analyzed: 06/08/16						
Nitrate/Nitrite as N	9.53	0.100	mg/L	4.00	5.75	94.5	90-110			
Matrix Spike (B6F0804-MS2)		Source: BF60021-01		Prepared & Analyzed: 06/08/16						
Nitrate/Nitrite as N	4.53	0.100	mg/L	4.00	0.633	97.4	90-110			
Matrix Spike Dup (B6F0804-MSD1)		Source: BE60128-01		Prepared & Analyzed: 06/08/16						
Nitrate/Nitrite as N	9.51	0.100	mg/L	4.00	5.75	94.0	90-110	0.210	10	



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 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/01/16

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
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Batch B6F0804 - Wet Prep

Matrix Spike Dup (B6F0804-MSD2)

Source: BF60021-01

Prepared & Analyzed: 06/08/16

Nitrate/Nitrite as N	4.54	0.100	mg/L	4.00	0.633	97.7	90-110	0.221	10	
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Notes and Definitions

- # 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)



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CERTIFICATIONS

Certified Analyses included in this Report

Analysis	Certifications
EPA 350.1	ADEQ,NELAP
Ammonia as N	ADEQ,NELAP
EPA 353.2	ADEQ,NELAP
Nitrate/Nitrite as N	ADEQ,NELAP
Nitrite as N	ADEQ,NELAP
EPA 365.1	ADEQ,NELAP
Phosphorus, Total as P	ADEQ,NELAP
SM 5210B	ADEQ,NELAP
Biochemical Oxygen Demand	ADEQ,NELAP
SM 5210B CBOD	ADEQ
Carbonaceous BOD	ADEQ
USGS I-3765-85	ADEQ,NELAP
Total Suspended Solids	ADEQ,NELAP

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	10/19/2016
NELAP	FL DOH	E871035	06/30/2016

City of Siloam Springs

CITY OF SILOAM SPRINGS

975 Anderson Avenue

Siloam Springs, AR

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

P.O. Box 80

Siloam Springs, AR 72761

website: siloamsprings.com

WATER POLLUTION CONTROL FACILITY

BF60007-01 A

Effluent, Outfall 001

Sampled: 06/01/16 09:00

Water-Work Order Label

City of Siloam Springs

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Company Name:		Siloam Springs		Permit/Project #:		Weekly Testing									
Address:		P.O. Box 80 410 N. Broadway Siloam Springs, Ar 72761		Project Order #:		1 of 1									
Telephone:		(479) 524-5623		Sampler Name(s):		Jack Harrison									
FAX:		(479) 524-4653		and Signature(s):		<i>Jack Harrison</i>									
Sample Identification				Sample Collection				Sample Containers							
Identification	Lab Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	CBOD	Total Suspended Solids	NH3-N	BOD	NO-3	TP
Effluent, Outfall 001	BF60007-01	5/31/16	1000	Comp	H2O	P	4QT. 2QT	Refrigerated	1	X	X				
Effluent, Outfall 001	7-01	6/1/16	0900	Comp	H2O	P	500 ML	H2SO4	1		X				X
Influent	7-02	6/1/16	0900	Comp	H2O	P	500 ML	H2SO4	1		X				X
Influent	7-02	6/1/16	0900	Comp	H2O	P	1QT.	Refrigerated	1		X				
Relinquished By: (Signature and Printed Name) <i>Jack Harrison</i>				Received By: (Signature and Printed Name) <i>OSCAR T COOK</i>				Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name) <i>OSCAR T COOK</i>				Received By: (Signature and Printed Name) <i>OSCAR T COOK</i>				Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>							
Date: 6-1-16				Date: 6/1/16				Time: 14:40							
Time: 13:12				Time: 13:12				Time: 14:40							
Received for Lab By: (Signature and Printed Name) <i>Matt Watson</i>				Received for Lab By: (Signature and Printed Name) <i>Matt Watson</i>				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Sampler Effluent Temp 3.0 OC Start 3.4				Sampler Inflow Temp 3.2 OC Start 3.4				Chlorinated? Yes <input type="checkbox"/> No <input type="checkbox"/>							
Comments:				OC Stop				This Document is Page 1 of 1							