

Anderson, Alan

From: Tom Myers <tmyers@siloamsprings.com>
Sent: Monday, June 20, 2016 10:36 AM
To: Anderson, Alan
Cc: Steven Gorszczyk; Jack Harrison
Subject: Excursion Ammonia Nitrogen and BOD June 8 2016
Attachments: City of Siloam Springs BF60056 6-16-16.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Alan,

This email is to inform you that the City of Siloam Springs exceeded its 7-day maximum of Ammonia Nitrogen and BOD on June 8, 2016. See attached contract laboratory data.

The wastewater plant is running with repaired centrifugal blower. Centrifugal blower was installed June 14th and fully operational June 15, 2016. Oxygen levels are back to normal. Process monitoring shows Ammonia Nitrogen levels dropping. In addition COD analysis indicate BOD is being reduced too. Miro-scope examination shows levels of stalk ciliates and other forms of ciliates present.

Sincerely,

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

Anderson, Alan

From: Tom Myers <tmyers@siloamsprings.com>
Sent: Monday, June 20, 2016 10:36 AM
To: Anderson, Alan
Cc: Steven Gorszczyk; Jack Harrison
Subject: Notification of Excursion June 8 20116
Attachments: City of Siloam Springs BF60056 6-16-16.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Alan,

Here attached is our recent received laboratory report for Siloam Springs Wastewater Plant. As report indicates we exceeded 7-day maximum for Ammonia Nitrogen and BOD limits.

The plant is now operating with repaired blower as of June 15, 2016. Field data shows a drop in Ammonia Nitrogen levels. BOD is also dropping according to COD analysis. Testing was prior to discharge for process control.

Sincerely,

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



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

Analytical Report

06/16/16 16:08

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

Work Order: BF60056
Project Name: Effluent-Influent
Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

Sample ID	Laboratory ID	Date and Time Sampled	Sampled By	Sample Type
Effluent, Outfall 001	BF60056-01	06/07/16 10:00 - 06/08/16 09:00	Jack Harrison	Composite
Influent	BF60056-02	06/07/16 10:00 - 06/08/16 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



Analytical Report

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06/16/16 16:08

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

Work Order: BF60056
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

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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BF60056-01 (Water) Sampled: 06/08/16 09:00

Client Sample Name: Effluent, Outfall 001

Ammonia as N	6.55		mg/L	0.500	5	06/14/16 12:59	JCH	EPA 350.1	B6F1402
Carbonaceous BOD	33.5		"	1.00	1	06/09/16 08:45	JCH	SM 5210B CBOD	B6F0901
Nitrate Nitrogen	ND		"	0.200	"	06/13/16 15:30	JCH	[CALC]	[CALC]
Nitrate/Nitrite as N	ND		"	0.100	"	"	JCH	EPA 353.2	B6F1305
Nitrite as N	ND		"	0.100	"	06/10/16 08:28	JCH	"	B6F0903
Phosphorus, Total as P	0.645		"	0.250	5	06/14/16 15:22	JCH	EPA 365.1	B6F1403
Total Suspended Solids	16.0		"	1.00	1	06/13/16 08:35	JSH	USGS 1-3765-85	B6F1302

BF60056-02 (Water) Sampled: 06/08/16 09:00

Client Sample Name: Influent

Ammonia as N	16.2		mg/L	0.500	5	06/14/16 12:59	JCH	EPA 350.1	B6F1402
Biochemical Oxygen Demand	166		"	1.00	1	06/09/16 08:45	JCH	SM 5210B	B6F0901
Nitrate Nitrogen	0.813		"	0.200	"	06/13/16 15:30	JCH	[CALC]	[CALC]
Nitrate/Nitrite as N	0.813		"	0.100	"	"	JCH	EPA 353.2	B6F1305
Nitrite as N	ND		"	0.100	"	06/10/16 08:28	JCH	"	B6F0903
Phosphorus, Total as P	5.22		"	0.500	10	06/14/16 15:22	JCH	EPA 365.1	B6F1403
Total Suspended Solids	132		"	1.00	1	06/13/16 08:35	JSH	USGS 1-3765-85	B6F1302



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 Siloam Springs AR, 72761

Work Order: BF60056
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

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 B6F0901 - Wet Prep

Blank (B6F0901-BLK1)

Prepared & Analyzed: 06/09/16

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

LCS (B6F0901-BS1)

Prepared & Analyzed: 06/09/16

Biochemical Oxygen Demand	206		mg/L	198		104	84.6-115.4			
Carbonaceous BOD	193		"	198		97.5	84.6-115.4			

Duplicate (B6F0901-DUP1)

Source: BF60056-02

Prepared & Analyzed: 06/09/16

Biochemical Oxygen Demand	158	1.00	mg/L		166			4.94	15	
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Batch B6F0903 - Wet Prep

Blank (B6F0903-BLK1)

Prepared: 06/09/16 Analyzed: 06/10/16

Nitrite as N	ND	0.100	mg/L							
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LCS (B6F0903-BS1)

Prepared: 06/09/16 Analyzed: 06/10/16

Nitrite as N	3.940	0.100	mg/L	4.00		98.5	90-110			
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Matrix Spike (B6F0903-MS1)

Source: BF60056-01

Prepared: 06/09/16 Analyzed: 06/10/16

Nitrite as N	1.970	0.100	mg/L	2.00	ND	98.5	90-110			
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Matrix Spike Dup (B6F0903-MSD1)

Source: BF60056-01

Prepared: 06/09/16 Analyzed: 06/10/16

Nitrite as N	1.980	0.100	mg/L	2.00	ND	99.0	90-110	0.506	3.29	
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Batch B6F1302 - Wet Prep

Blank (B6F1302-BLK1)

Prepared & Analyzed: 06/13/16

Total Suspended Solids	ND	1.00	mg/L							
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Analytical Report

06/16/16 16:08

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

Work Order: BF60056
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

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 B6F1302 - Wet Prep

Blank (B6F1302-BLK2)				Prepared & Analyzed: 06/13/16						
Total Suspended Solids	ND	1.00	mg/L							
LCS (B6F1302-BS1)				Prepared & Analyzed: 06/13/16						
Total Suspended Solids	38.8	1.00	mg/L	40.0		97.0	80-120			
LCS Dup (B6F1302-BSD1)				Prepared & Analyzed: 06/13/16						
Total Suspended Solids	40.2	1.00	mg/L	40.0		100	80-120	3.54	20	
Duplicate (B6F1302-DUP1)				Source: BF60042-01			Prepared & Analyzed: 06/13/16			
Total Suspended Solids	185	1.00	mg/L		178			3.86	21.9	
Duplicate (B6F1302-DUP2)				Source: BF60053-01			Prepared & Analyzed: 06/13/16			
Total Suspended Solids	57.0	1.00	mg/L		54.0			5.41	21.9	
Duplicate (B6F1302-DUP3)				Source: BF60069-01			Prepared & Analyzed: 06/13/16			
Total Suspended Solids	107	1.00	mg/L		105			1.89	21.9	

Batch B6F1305 - Wet Prep

Blank (B6F1305-BLK1)				Prepared & Analyzed: 06/13/16						
Nitrate/Nitrite as N	ND	0.100	mg/L							
LCS (B6F1305-BS1)				Prepared & Analyzed: 06/13/16						
Nitrate/Nitrite as N	7.65	0.100	mg/L	8.00		95.6	90-110			
Matrix Spike (B6F1305-MS1)				Source: BF60061-01			Prepared & Analyzed: 06/13/16			
Nitrate/Nitrite as N	9.41	0.100	mg/L	4.00	5.70	92.8	90-110			



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Work Order: BF60056
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

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 B6F1305 - Wet Prep

Matrix Spike Dup (B6F1305-MSD1)	Source: BF60061-01	Prepared & Analyzed: 06/13/16							
Nitrate/Nitrite as N	9.40	0.100 mg/L	4.00	5.70	92.5	90-110	0.106	10	

Batch B6F1402 - Wet Prep

Blank (B6F1402-BLK1)	Prepared & Analyzed: 06/14/16								
Ammonia as N	ND	0.100 mg/L							

LCS (B6F1402-BS1)	Prepared & Analyzed: 06/14/16								
Ammonia as N	4.74	0.100 mg/L	5.00		94.8	90-110			

Matrix Spike (B6F1402-MS1)	Source: BF60046-01	Prepared & Analyzed: 06/14/16							
Ammonia as N	2.68	0.100 mg/L	2.00	0.556	106	90-110			

Matrix Spike (B6F1402-MS2)	Source: BF60056-01	Prepared & Analyzed: 06/14/16							
Ammonia as N	3.32	mg/L	2.00	1.31	100	90-110			

Matrix Spike Dup (B6F1402-MSD1)	Source: BF60046-01	Prepared & Analyzed: 06/14/16							
Ammonia as N	2.69	0.100 mg/L	2.00	0.556	107	90-110	0.372	10	

Matrix Spike Dup (B6F1402-MSD2)	Source: BF60056-01	Prepared & Analyzed: 06/14/16							
Ammonia as N	3.39	mg/L	2.00	1.31	104	90-110	2.09	10	

Batch B6F1403 - Wet Prep

Blank (B6F1403-BLK1)	Prepared & Analyzed: 06/14/16								
Phosphorus, Total as P	ND	0.0500 mg/L							



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Work Order: BF60056
 Project Name: Effluent-Influent
 Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

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 B6F1403 - Wet Prep

LCS (B6F1403-BS1)

Prepared & Analyzed: 06/14/16

Phosphorus, Total as P	1.03	0.0500	mg/L	1.00		103	90-110			
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Matrix Spike (B6F1403-MS1)

Source: BF60057-03

Prepared & Analyzed: 06/14/16

Phosphorus, Total as P	0.723	0.0500	mg/L	0.500	0.243	96.0	90-110			
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Matrix Spike (B6F1403-MS2)

Source: BF60067-02

Prepared & Analyzed: 06/14/16

Phosphorus, Total as P	0.702	0.0500	mg/L	0.500	0.224	95.6	90-110			
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Matrix Spike Dup (B6F1403-MSD1)

Source: BF60057-03

Prepared & Analyzed: 06/14/16

Phosphorus, Total as P	0.726	0.0500	mg/L	0.500	0.243	96.6	90-110	0.414	6.01	
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Matrix Spike Dup (B6F1403-MSD2)

Source: BF60067-02

Prepared & Analyzed: 06/14/16

Phosphorus, Total as P	0.709	0.0500	mg/L	0.500	0.224	97.0	90-110	0.992	6.01	
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Notes and Definitions

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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Work Order: BF60056
Project Name: Effluent-Influent
Project Number: Effluent-Influent

Attn: Tom Myers

Date Received: 06/08/16

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

P. O. Box 80

Siloam Springs, AR

Siloam Springs, AR 72761

website: siloamsprings.com

WATER POLLUTION CONTROL FACILITY

BF60056-01 A

Effluent, Outfall 001

Sampled: 06/08/16 09:00

Water- Work Order Label

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

City of Siloam Springs

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Company Name: Siloam Springs		Permit/Project #: Weekly Testing		Project Order #: 1 of 1		Sampler Name(s): Jack Harrison		and Signature(s): <i>Jack Harrison</i>							
Address: P. O. Box 80 410 N. Broadway Siloam Springs, AR 72761		Telephone: (479) 524-5623		FAX: (479) 524-4653											
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	pH
Effluent, Outfall 001	BF60056-01	6/7/16	1000	Comp	H2O	P	2 QT.	Refrigerated	1	X	X				
Effluent, Outfall 001	-01	6/7/16	1000	Comp	H2O	P	500 ML	H2SO4	1		X	X			X
Influent	56.02	6/8/16	0900	Comp	H2O	P	500 ML	H2SO4	1		X	X			X
Influent	-02	6/8/16	0900	Comp	H2O	P	1 QT.	Refrigerated	1	X	X				
Relinquished By: (Signature and Printed Name) <i>Jack Harrison</i>		Date	Time	Received By: (Signature and Printed Name) <i>Jack Harrison</i>		Date	Time	Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/>		Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name) <i>Jack Harrison</i>		6/8/16	12:10	Received By: (Signature and Printed Name) <i>Jack Harrison</i>		6/8/16	12:16			Were samples properly preserved: <input checked="" type="checkbox"/>					
Relinquished By: (Signature and Printed Name) <i>Jack Harrison</i>		6/8/16	13:30	Received for Lab By: (Signature and Printed Name) <i>Jack Harrison</i>		6/8/16	13:30								
Comments: Sampler Effluent Temp 3.2 OC Start 3.2 OC Stop Sampler Influent Temp 1.8 OC Start 2.1 OC Stop															
G:\WP5\DOC\FORMS\CHAIN.XLS Cool all samples to 4 degrees C. <i>UCI 164</i>										Chlorinated? Yes No		This Document is Page 1 of 1			