Sanitary Sewer Overflow (SSO) Monthly Report

Facility Name: Siloam Springs **NPDES Permit No.:** AR0020273 **Monitoring Period (Month/Year):** 09 / 2013

☒ No Sanitary Sewer Overflows This Monitoring Period

Summary Report Code Descriptions				
Cause(s) of SSO		**SSO Impact**	**Action(s) Taken**	**Ultimate Discharge Location**
CO-Construction	**D**-Debris	**NEAH**-No Evidence Adverse Health/ Environmental. Impact		**CR**-Creek/Stream/River (specify)
E-Equipment Failure	**G**-Grease	**OEHC**-Observed or Evidence of Human Contact	**EC**-Environmental Cleanup	**DI**-Ditch
HC-Hydro Clean	**LF**-Line Failure	**EFK**-Evidence of Fish Kill	**HC**-Hydro Cleaned	**DR**-Drop Inlet
R-Rainfall	**RG**-Roots / Grease		**HR**-Hand Rodded	**GR**-Ground Surface
RO-Roots	**V**-Vandalism		**EN**-Referred to Engineering	**PA**-Paved Area
			PN-Public Notification	**CB**-Contained in Building

Location	Manhole #	Start Date of SSO	End Date of SSO	Estimated Volume (in gallons)	Cause of SSO	Environmental Impact	Action (s) Taken to Address SSO	Discharge Location

10/16/2013

Signature of Cognizant or Ranking Official **Date**

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 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."

PHONE CONTACT LOG

Name of Caller: Tom Myers	Company: City of Siloam Springs
Date/Time Call Made/Received: 9/9/2013	9:36 a.m.
Call Received By: Kim Fuller	Company: ADEQ

Comments: Tom called to inform ADEQ that due to low flow and to providing the correct Food/Microorganisms ratio. City had to shut one of the three 1.5 mgd trains down. All flows are being processed through two trains rather than three. Tom talked with Kim Fuller to discuss the process and to let ADEQ know.
This information will be attached to the monthly report for September.
Tom thanked Kim for her time.

RE: Wastewater Plant
NPDES Permit No. AR0020273

Name/Title	Division	Phone/E-Mail
Fuller, Kimberly Engineer Supervisor	Water	(501) 682-0643 Email:fuller@adeq.state.ar.us

August 22, 2013

Test Results of
Third Quarter
Chronic 7-Day Renewal
Biomonitoring Testing
for
Plant Effluent
Siloam Springs, AR

Control No. 169688-1

Prepared for:

Mr. Tom Myers
City of Siloam Springs
Post Office Box 80
Siloam Springs, AR 72761

Prepared by:

AMERICAN INTERPLEX CORPORATION
8600 Kanis Road
Little Rock, AR 72204-2322

City of Siloam Springs
ATTN: Mr. Tom Myers
Post Office Box 80
Siloam Springs, AR 72761

Re: Chronic 7-Day Renewal utilizing *Pimephales promelas* (Fathead minnow) and *Ceriodaphnia dubia*
Plant Effluent - Siloam Springs, AR
NPDES Permit No. AR0020273 AFIN# 04-00106

Dear Mr. Tom Myers:

This report is the analytical results and supporting information for the samples submitted to American Interplex Corporation (AIC). The following results are applicable only to the sample identified by the control number referenced above. Accurate assessment of the data requires access to the entire document. Each section of the report has been reviewed and approved by the laboratory director or qualified designee.

Testing procedures and Quality Assurance were in accordance with "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013, Fourth Edition, October 2002. Test results are summarized below:

Method 1000.0 Chronic *Pimephales promelas* (Fathead minnow) Survival and Growth Test: The No Observable Effects Concentration (NOEC) for survival occurred at 100 % effluent, which is equal to the critical dilution of 100 %. The NOEC for growth occurred at 100 % effluent, which is equal to the critical dilution of 100 %. **The sample, therefore, PASSED both lethal and sub-lethal effects for the Fathead minnow test.**

Method 1002.0 Chronic *Ceriodaphnia dubia* Survival and Reproduction Test: The No Observable Effects Concentration (NOEC) for survival occurred at 100 % effluent, which is equal to the critical dilution of 100 %. The NOEC for reproduction occurred at 100 % effluent, which is equal to the critical dilution of 100 %. **The sample, therefore, PASSED both lethal and sub-lethal effects for the *Ceriodaphnia dubia* test.**

AMERICAN INTERPLEX CORPORATION

John Overbey
Laboratory Director

PDF cc: City of Siloam Springs
ATTN: Mr. Tom Myers
tmyers@siloamsprings.com

City of Siloam Springs
ATTN: Mr. Jack Harrison
jharrison@siloamsprings.com

Appendix B: Test 1002.0

SUMMARY REPORTING FORMS
CHRONIC BIOMONITORING
Ceriodaphnia dubia
SURVIVAL AND REPRODUCTION

1. Fisher's Exact Test:

   Is the mean survival significantly different (p=0.05) than the control survival for the % effluent corresponding to (lethality):

a.) LOW FLOW OR CRITICAL DILUTION	(100 %)	_____YES	X NO
b.) 1/2 LOW FLOW DILUTION	(NA)	_____YES	_____NO

2. Dunnett's Test:

   Is the mean number of young produced per female significantly different (p=0.05) than the control's number of young per female for the % effluent corresponding to (significant non-lethal effects):

a.) LOW FLOW OR CRITICAL DILUTION	(100 %)	_____YES	X NO
b.) 1/2 LOW FLOW DILUTION	(NA)	_____YES	_____NO

3. If you answered NO to 1.a) enter [0] otherwise enter [1]: 0 (TLP3B)

4. If you answered NO to 2.a) enter [0] otherwise enter [1]: 0 (TGP3B)

5. NOEC Ceriodaphnia Lethality: 100 % (TOP3B)

6. LOEC Ceriodaphnia Lethality: 100 % (TXP3B)

7. NOEC Ceriodaphnia Sublethality: 100 % (TPP3B)

8. LOEC Ceriodaphnia Sublethality: 100 % (TYP3B)

9. Coefficient of variation for Ceriodaphnia Reproduction: 26.8 (TQP3B)

Appendix B: Test 1000.0

SUMMARY REPORTING FORMS
CHRONIC BIOMONITORING
Pimephales promelas (Fathead Minnow)
SURVIVAL AND GROWTH

1. Steel's Many-One Rank Test:

   Is the mean survival significantly different (p=0.05) than the control survival for the % effluent corresponding to (lethality):

a.) LOW FLOW OR CRITICAL DILUTION	(100 %)	____YES	X NO
b.) 1/2 LOW FLOW DILUTION	(NA)	____YES	____NO

2. Dunnett's Test:

   Is the mean dry weight (growth) significantly different (p=0.05) than the control's dry weight (growth) for the % effluent corresponding to (significant non-lethal effects):

a.) LOW FLOW OR CRITICAL DILUTION	(100 %)	____YES	X NO
b.) 1/2 LOW FLOW DILUTION	(NA)	____YES	____NO

3. If you answered NO to 1.a) enter [0] otherwise enter [1]: 0 (TLP6C)

4. If you answered NO to 2.a) enter [0] otherwise enter [1]: 0 (TGP6C)

5. NOEC Pimephales Lethality: 100 % (TOP6C)

6. LOEC Pimephales Lethality: 100 % (TXP6C)

7. NOEC Pimephales Sublethality: 100 % (TPP6C)

8. LOEC Pimephales Sublethality: 100 % (TYP6C)

9. Coefficient of variation for Pimephales growth: 7.95 (TQP6C)

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CITY OF SILOAM SPRINGS
P.O. Box 80
Siloam Springs, AR 72761

AR Dept Environmental Quality
NPDES Enforcement Section
5301 Northshore Drive
North Little Rock, AR 72118-5317