

September 26, 2019

Butch Berry, Mayor City of Eureka Springs 44 South Main Street Eureka Springs, AR 72632

RE: City of Eureka Springs WWTP Inspection

AFIN: 08-00036 Permit No.: AR0021865

Honorable Mayor Berry:

On August 15, 2019, in response to a complaint I performed a Reconnaissance Inspection of the above referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. A copy of the inspection report is enclosed for your records.

No violations were noted during the inspection. Please review the Summary of Findings and Comments section of the report.

If I can be of any assistance, please contact me at grimesg@adeq.state.ar.us or 479.267.0911 ext. 16.

Sincerely,

Garrett Grimes

District 1 Field Inspector
Office of Water Quality

Janes Dina

Cc: Terry Long, Plant Manager, City of Eureka Springs, 3174 E. Van Buren, Eureka Springs, AR 72632

Inspection Report: City of Eureka Springs WWTP, AFIN: 08-00036, Permit #: AR0021865

	A DEO		OFFICE OF WATER QUALITY INSPECTION REPORT										
	ADEU	AF	IN: 08-00036	PE	ERMIT #: AR0021	1865			DATE: 8	3/15/2019			
		CC	UNTY: 08 Car	rol	I	PD	S #: 109	467		MEDIA: WN			
A Dep	A R K A N S A S Department of Environmental Quality GPS LAT: 36.419674 LONG: -93.734624 LOCATION: Entrance												
	FACILITY INFORMAT	ION			IN	SPE	CTION	INFOR	MATIO	N			
	: y of Eureka Springs WWTP TION:			_	FACILITY TYPE: 1 - Municipal	10	ECTOR ID#: 4111 S						
	Highway 23 North				FACILITY EVALUATION RATING N			Reco	on type: onnaiss:	ance			
	reka Springs, AR				. ,	11RY TIM 2:55		T TIME: 3:40		FECTIVE DATE:			
	RESPONSIBLE OFFIC	CIAL			0/10/2010	2.00			2/1/20 PERMIT EX	119 (PIRATION DATE:			
	E / TITLE tch Berry / Mayor								1/31/2	2024			
COM	PANY:			•	FAYETTEVILLE	SHA	LE RE	LATED	N				
	y of Eureka Springs NG ADDRESS:			•	FAYETTEVILLE	SHA	ALE VIC	LATIO	NS: N				
	South Main Street						CTION	PARTIC	CIPANT	S			
	state, zip: reka Springs AR 72632				Terry Long/Plar		anager/	Class I	V Opera	ator/479-981-			
	IE & EXT: / FAX:				0707		Ū		•				
EMAI					Garrett Grimes,	, DIs	trict 1 l	nspect	or, ADE	Q			
LIVIA	-												
CC	NTACTED DURING INSPECTION:	No											
	(S=S.	atisfac			LUATIONS sfactory, N=Not Applicable/	/Evalua	ted)						
S	PERMIT	N	FLOW MEAS				N STC	RMWA					
N	RECORDS/REPORTS	N	LABORATOR	RΥ		I	I FAC	ILITY S	SITE RE	VIEW			
S	OPERATION & MAINTENANCE	Z	EFFLUENT/F	REC	CEIVING WATER	I	N SEL	F-MON	IITORIN	G PROGRAM			
N	SAMPLING	Ν	SLUDGE HA	$N\overline{D}$	LING/DISPOSAL	I	N PRE	TREA	MENT				
N	OTHER:												

Narrative:

ADEQ arrived at the facility on August 19, 2019, and was greeted by Terry Long, Plant Manager, City of Eureka Springs. ADEQ explained to Mr. Long the reason for the site visit and toured the section of Leatherwood Creek adjacent to the facility's outfall.

SUMMARY OF FINDINGS

Eureka Springs WWTP discharges intermittently. At the time of the inspection effluent was discharging from the outfall (Photo #1). No solids were observed in the discharge, but a slight haze was noted on the surface of the receiving stream near the outfall (Photos #2 - #3). It was unclear if this haze was the result of dissolved solids in the discharge or an effect from the increased flow and agitation of the water in the vicinity of the outfall.

No recent Total Suspended Solids (TSS) excursions have been noted in recent Discharge Monitoring Reports (DMRs) at the time of the inspection. In addition, no wastewater treatment residual deposits were noted in the immediate area of the outfall. However, deposits similar to suspected residuals observed during a June 21, 2019, reconnaissance were observed downstream of the facility (Photo #4).

In response, ADEQ requested flow and effluent sample analysis records for the months of May and June 2019 (Attachment 1). These records indicate several instances of flow exceeding design capacity (Attachment 1). However, analyses of the facility's effluent do not note significant levels of TSS (Attachment 1).

GENERAL COMMENTS

- No observations of solids discharging from the facility were made during the inspection and exceedances of TSS have not been reported on DMRs prior to the inspection (Photo #2). However, possible residuals were observed in the receiving stream and the City of Eureka Springs WWTP periodically discharges beyond the design capacity of the facility (Photo #4, Attachment 1). Discharges of solids to the receiving stream are prohibited. Should times of increased flow cause solids to enter the receiving stream, the City of Eureka Springs must report these instances to the ADEQ Office of Water Quality Enforcement Branch as per Part III, Section D.6 of the permit.
- As noted above, several instances of effluent flow exceeding the design capacity of the WWTP were
 noted in the facility's records for May and June 2019. Part III, Section C.1 of the permit requires
 sampling and measurements to be representative of the volume and nature of the monitored discharge
 during the entire monitoring period. The City of Eureka Springs should plan for sample events during
 periods of sustained increased hydraulic loading at the facility in order to ensure that samples are
 representative of the monitoring period. The City should also make preparations for sampling during
 instances of increased hydraulic loading that can occur from known planned activities/events within
 the City.

INSPECTOR'S SIGNATURE: Brest 2 Walker

SUPERVISOR'S SIGNATURE: Brest 2 Walker

DATE: 9/10/2019

		Office of Water Quality Photo	graphic	Evidence Sheet		
Location:	City	of Eureka Springs WWTP				
Photograp	her:	Garrett Grimes, District 1 Inspector	Date:	8/15/2019	Time:	13:13
Witness:					Photo #:	1
D		CCI	41			1



Photographer:	Garrett Grimes, District 1 Inspector	Date:	8/15/2019	Time:	13:11
Witness:				Photo #	: 2

Description: No solids observed in the effluent entering the stream.



Inspection Report: City of Eureka Springs WWTP, AFIN: 08-00036, Permit #: AR0021865

		Office of Water Quality Photog	graphic	Evidence Sheet		
Location:	City	of Eureka Springs WWTP				
Photograp	her:	Garrett Grimes, District 1 Inspector	Date:	8/15/2019	Time:	13:09
Witness:					Photo #	: 3

Description: Slight haze on the surface of the water downstream of the outfall.



Photographer:Garrett Grimes, District 1 InspectorDate:8/15/2019Time:13:21Witness:Photo #:4



Attachment 1

May & June 2019 Flow and Sample Records

MAY 2019

DATE	DAILY FLOW (MGD)	D. O.	рН	SAMPLE DAY
1	1.452	-	-	
2	0.641	-	mt .	
3	1.161	P4	-	
4	0.971	-	-	
5	0.565	-	-	
6	0.717	-	-	
7	0.578	-	-	
8	0.622	-	-	YES
9	0.577	-		
10	0.519	-	-	
11	0.789	-	-	
12	0.564	-		
13	0.444	-	-	
14	0.422		_	
15	0.412	-	-	YES
16	0.395	-	**	
17	0.424	7.4	7.06	
18	0.442	-	-	
19	0.404	-	-	
20	0.378	14	-	
21	0.762	-	-	
22	0.464	-	_	YES
23	0.426	-	-	
24	0.434	-	•	
25	0.477		-	
26	0.485	-	-	
27	0.394	-	-	
28	0.336	nd .	-	
29	0.573	-	-	
30	0.483	7.5	7.21	
31	0.415	7.7	7.28	

17.726	TOTAL FLOW		MGD
1.452	MAX DAILY	FLOW	MGD
0.336	MIN DAILY	FLOW	MGB
0.5718	AVE. DAILY	FLOW	MGD
8.375	TOTAL RAIN	FALL	INCHES

JUNE 2019

DATE	DAILY FLOW (MGD)	D. O.	рН	SAMPLE DAY
1	0.437		-	
2	0.384	-	-	
3	0.287	-	-	
4	0.332	-	-	
5	0.318	_	-	YES
6	0.363	-	-	
7	0.834	-	-	
8	0.539	-	-	
9	0.310	-	-	
10	0.289	7.3	7.14	
11	0.376	-	-	
12	0.312	_	-	
13	0.349	-	-	
14	0.367	-	-	
15	0.427	-	-	
16	0.398		-	
17	0.456		-	
18	0.387	7.1	7.13	
19	0.591		•	YES
20	0.398	-	-	
21	0.410	-	-	
22	0.469	-		
23	1.186	-	_	
24	0.663	7.1	7.06	
25	0.466		-	
26	0.450	-	_	YES
27	0.419	-	-	
28	0.403	-	**	
29	0.427	-		
30	0.401	-	-	
		~	-	

13.448	TOTAL	FLOW		MGD
1.186	MAX	DAILY	FLOW	MGD
0.463	AVE. DA	AILY FLOW		MGD
0.287	MIN	DAILY	FLOW	MGD
6.204	TOTAL	RAIN FALL		INCHES

Tel. (501)221-2565 Little Rock, AR 72211 13715 West Markham Corporate Office Fax (501)221-1341

(479) 750-1170 Northwest Arkansas Branch Springdale, AR 72762))750-1170 Fax (479)750-1172 1107 Century Avenue

Report Date : 05/23/19 Customer Name: EUREXA SPRINGS, CITY OF Customer/Permit No.: 1505 / AR0021865 001 Control Number: 1905020092 Sample Time: 0700,1010,1320 Sample Type: COMP Sample From : EFFLUENT Composite Date: 05/15/19 -05/15/19

Work Order : Delivery By : JEW Collected By: TL Purchase Order :

* QA data show	Analysis Date Time By 05/17 1320 AKA 05/20 1040 AKA 05/21 0910 TSB 05/17 1600 TSB 05/17 1445 AKA
QA data shown is from a different sample or standard on	Parameter Ammonia as N. (HACH 10205) Phosphorous, Total (as P) Solids, Total Suspended BOD, Carbonaceous Nitrate + Nitrite
le or standard on the	Result 0.12 mg/L 0.050 mg/L 2.5 mg/L 2.0 mg/L 2.1 mg/L 0.71 mg/L
	<u>Notes</u>
same date.	Quantity
	Method SM 2011 4500-NH3 F EPA 365.3 SM 2011 2540 D SM 2001 5210 B 01/2013 HACH 10206
	Quality Precision % RPD 0.54 0.82 8.11 6.14 0.87
	Quality Assurance ecision Accuracy % RPD % Recovery 0.54 107.8 * 0.82 106.0 * 8.11 N/A * 6.14 86.0 * 0.87 107.6 *

A minimum of 10% spiked and duplicate samples is run on each parameter All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. the start of the analytical batch in which the specific sample was included. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. where applicable for Quality Assurance purposes. I Quality. Analysis time indicates the time of

Signature

Northwest Arkansas Branch

Control Number: 1905020095 Tel. (501)221-2565 Little Rock, AR 72211 01)221-2565 Fax (501)221-1341 Tel. (479)750-11701107 Century Avenue Springdale, AR 72762))750-1170 Fax (479)750-1172

13715 West Markham Corporate Office

Customer Name: EUREKA SPRINGS, CITY OF Customer/Permit No.: 1505 / AR0021865 001 Report Date: 05/20/19 Sample Type : Sample From : EFFLUENT Sample Time : Sample Date : GRAB 1128 05/16/19 Delivery By : JEW Work Order : Purchase Order : Collected By: TL

* QA data shown is	Analysis Date Time By 05/16 1620 TSB Fecal
from a different sampl	Parameter Coliform (MPN/100mL
QA data shown is from a different sample or standard on the same date	Laboratory Analysis Result Notes < 2.0 /100ml
2) 1 1 1	Quantity
	Method 06/2012 Colilert18
	Quality Precision % RPD 0.00
	Quality Assurance Precision Accuracy % RPD % Recovery 0.00 0.0

QA data shown is from a different sample or standard on the same date.

A minimum of 10% spiked and duplicate samples is run on each parameter where appl Quality Assurance Plan on file with Arkansas Department of Environmental Quality. the start of the analytical batch in which the specific sample was included.

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Signature

Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 13715 West Markham Corporate Office Tel. (479)750-1170Northwest Arkansas Branch Springdale, AR 72762 }}750-1170 Fax (479)750-1172 1107 Century Avenue

Report Date : 05/23/19 Customer Number: 1508 Customer Name : EUREKA SPRINGS-INFLUENT Control Number: 1905020093 Sample Type : GRAB Sample From : INFLUENT Sample Time : 1013 Sample Date: 05/15/19 Delivery By : JEW Collected By: Purchase Order : Work Order :

* QA data shown is from a different sample or standard on the same date.		0910 TSB Solids, Total Suspended 195.0 1445 AKA Nitrate + Nitrite 0.54	Ammonia as W, (HACH 10205) 24.90 mg/L	Time By Parameter Result Notes Quantity	Laboratory Analysis
		 D 10206	B NH3 F	1 H	
		0.82 8.11 0.87		Precision % RPD	Quality Assurance
		106.0 * N/A * 107.6 *	94.1 107.8 *	Accuracy & Recovery	ssurance

A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included. All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136.

Signature

Environmental Services Company, Inc.
Corporate Office

13715 West Markham P.O. Box 55146
Little Rock, AR 72211 Little Rock, AR 72215
website: www.esclabs.com

Phone: 501-221-2565



Environmental Services Company, Inc. Northwest Branch 1107 Century Springdale, AR 72764

Fax: 501-221-1341 CHAIN OF CUSTODY Phone 479-750-1170 Fax: 479-750-1172

					Comments.	with !	Remodulished By: (Signature and Printed Name)		ignatu	5	Relinguished By: (Signature/and Printed			1508 Influent	1508 Influent		1505 Effluent	1505 Effluent	1505 Effluent	Identification	Sample Identification	ESC Client Number:		FAX:	Telephone:		Address:	Company Name:	
Cool all samples to 6 degrees C.						ames Wiltre	ted Name) \ . / /	Я		FRESP CM	202				1905020093		1	1905020092	1905020095	ESC Control #	entification	1505-Effluent	ESWWTP@YAHOO.COM	(479) 253-6974	(479) 253-7410	Eureka Springs, Ar 72632	3174 E. Van Buren	Eureka Springs	Cuctif a not mation
grees C.						5.16-19 1			+	1/6/19				Slistla	5/19/12	:	57/5/16	5/15/PA	5/16/19	Date		1508-Influent	O.COM			72632			
						1610 (Time		Time	83 60 80				1013	1013	,	1010	asla	1128	Time	Sample	r+							
			anto.			J. months	Received for Lab By: (Signature and Printed Name))	Received By: (Signature and Printed Name)	Received by: (Signature and Printed Name)				GRAB	GRAB		COMPOSITE	COMPOSITE	GRAB	Туре	Sample Collection		and Signature(s):		Sampler Name(s):	-	Purchase Order #:	Permit/Project #:	
	Units:	Reading:	Time:	Analyst:	FLOW DATA	topic america	y: (Signature an	•	vature and Printe	Harme and Printe				Water	Water		Water	Water	Water	Matrix			ıre(s):		ame(s):)rder#:	ect#:	
					ATA	を大る	Printed Name		d Name)	nted Name)			DARRICK Co-Com	plastic	plastic	. Work deposits	plastic	plastic	whirlpak	Туре	7	`	1		JE /E			AR#00	
Chlorinotodo	Debris:	DO:	Temp.:	pH:	Field Test	J. R.	1			The state of				250 ml	1000 ml		250 ml	1890 ml	300 ml	Volume	Sample Contai	1	my K		ERY,	/		21865/ 0	
do voo No					t Time Analyst	5.1649	-	,	-	5-11-19 12				H ₂ SO ₄ ,pH <2	none/ice		H ₂ SO ₄ ,pH <2	none/i	Na ₂ S ₂ O ₃	Preservative	Containers	1	tono	Λ	K LONG			AR#0021865/ Outfall 001	
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(501)221-2565 Little Rock, AR 72211 13715 West Markham Corporate Office Fax (501)221-1341

(479)750-1170Northwest Arkansas Branch Springdale, 1107 Century Avenue Fax (479)750-1172 AR 72762

Tel.

Report Date : 05/15/19 Customer Name : Customer/Permit No. : 1505 / AR0021865 001 Control Number: 1905020050 EUREKA SPRINGS, CITY OF Composite Date:05/08/19 -05/08/19 Sample Time : 1300,1606,1916 Sample Type : COMP Sample From : EFFLUENT

Delivery By : TL Work Order : Collected By: TL Purchase Order:

* QA data show	^	05/10 1050 AKA	10	05/13 1235 TSB	1000	05/10 1400 AKA	Date Time By	Analysis	
data shown is from a different sample or standard on the same date		Nitrate + Nitrite	BOD, Carbonaceous	Solids, Total Suspended	Phosphorous, Total (as P)	Ammonia as N, (HACH 10205)	Parameter	T PER	
le or standard on the same		1.09 mg/L	< 2.0 mg/L	< 2.5 mg/L	< 0.050 mg/L		Result Notes		Laboratory Analysis
date.	•						Quantity		
		01/2013 HACH 10206	SM 2001 5210 B	SM 2011 2540 D	EPA 365.3	SM 2011 4500-NH3 F	Method		
		1.38					% RPD	Precision	Quality Assurance
		101.4 *	102.9 *	N/A *	105.0 *	111.2 *	% Recovery	Accuracy	ssurance

ATTACATION SEMINATE OF SCHINGER OF CHICAGO

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature

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Tel. (479)750-1170Northwest Arkansas Branch Springdale, AR 72762))750-1170 Fax (479)750-1172 1107 Century Avenue

Customer Name: EUREKA SPRINGS, CITY OF Customer/Permit No.: 1505 / AR0021865 001 Report Date: 05/13/19 Control Number: 1905020056 Sample Type : Sample Time : Sample Date : Sample From : 05/09/19 SFFLUENT GRAB Collected By: TL Work Order : Purchase Order :

<u>Date</u> <u>Time</u> <u>By</u> 05/09 1553 AKA Analysis Fecal Coliform (MPN/100mL Parameter Laboratory Analysis Result < 1.0 /100ml Notes Quantity 06/2012 Colilert18 Method Delivery By : NTR Precision Quality Assurance % RPD 0.00 % Recovery Accuracy 0.0 *

QA data shown is from a different sample or standard on the same date.

A minimum of 10% spiked and duplicate samples is run on each parameter where appiquality Assurance Plan on file with Arkansas Department of Environmental Quality. the start of the analytical batch in which the specific sample was included. All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. where applicable for Quality Assurance purposes.

Quality. Analysis time indicates the time of

Signature

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Tel.

Northwest Arkansas Branch
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Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Laborator	Control Number: 1905020051 Customer Name: EUREKA SPRINGS-INFLUENT Customer Number: 1508 Report Date: 05/17/19
Laboratory Analysis	Sample Date: 05/08/19 Sample Time: 1305 Sample Type: GRAB Sample From: INFLUENT
	05/08/19 1305 GRAB INFLUENT
Quality Assur	Collected By: TL Delivery By : NTR Work Order : Purchase Order :

Analysis Date Time By 05/10 1600 TSB 05/10 1400 AKA 05/13 1000 AKA 05/13 1235 TSB 05/10 1050 AKA
Parameter BOD, 5-day Ammonia as N, (HACH 10205) Phosphorous, Total (as P) Solids, Total Suspended Nitrate + Nitrite
Result Notes 101.7 mg/L 10.50 mg/L 2.310 mg/L 84.0 mg/L 0.29 mg/L
Quantity
Method SM 2011 5210 B SM 2011 4500-NH3 F EPA 365.3 SM 2011 2540 D 01/2013 HACH 10206
Quality Precision % RPD 10.03 1.72 2.65 10.18 1.38
Quality Assurance recision Accuracy % RPD % Recovery 10.03 104.4 1.72 111.2 * 2.65 105.0 * 10.18 N/A * 1.38 101.4 *

* QA data shown is from a different sample or standard on the same date.

Signature

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Fax: 501-221-1341



Environmental Services Company, Inc. Northwest Branch 1107 Century Springdale, AR 72764

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

					Comments: 0	1	Relinguished By: (Signature and Printed Nam	Semidorane 20. (aspiratore and	Jany Clone	Relinquished-By: (Signature and Printed Name)			1508 Influent	1508 Influent		1505 Effluent	1505 Effluent	1505 Effluent	Identification	Sample Id	ESC Client Number:		FAX:	Telephone:		Address:	Company Name:	
Cool all samples to 6 degrees C.					Ü	NEd Ray	ninted Name)	linted Name)	Kleng / ERETKLONG	rinted Name)			7	nt 1965620051		nt	nt 1905020050	05002959 pu	ESC Control #	Sample Identification	1505-Effluent	ESWWTP@YAHOO.COM	(479) 253-5974	(479) 253-7410	Eureka Springs, Ar 72632	3174 E. Van Buren	Eureka Springs	Client Information
egrees C.						5-975	Dale	Dale	5-9-19	Date			 3/8/6	5/8/19		578/19	5/8/19	5/9/10	Date		1508-Influent	O.COM			r 72632	ח		
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					ITA '	OWN TO	Print Name	Name) ()	ord Day	Name)			plastic	plastic		plastic	plastic	whirlpak	Туре	0	1	Par		1 ERC			AR#002	Project Information
Chlorinated?	Debris:	DO:	Temp.:	pH:	Field Test	8	5		(5000	250 ml	1000 ml		250 ml	1890 ml	300 ml	Volume	Sample Contai	1.1	u PZ		66 K	S		AR#0021865/ Outfall 001	rmation
1? Yes No	1				Time Analyst	59-19 115	_	Date	2	Date 1			H ₂ SO ₄ ,pH <2	none/ice		H ₂ SO ₄ ,pH <2	none/ice	Na ₂ S ₂ O ₃	Preservative	Containers	1	ene	3	LONG	->	2 10 10 10 10 10 10 10 10 10 10 10 10 10	utfall 001	
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This Document is Page			+		Result	Yes \ \ \ \ \ \ \ No	X	ind	2	Seals:			×			×							1O ₃ -1	+NO	2(91)TP	(25)	Requested
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Corporate Office 13715 West Markham Little Rock, AR 72211 (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1905020198
Customer Name: EUREKA SPRINGS, CITY OF
Customer/Permit No.: 1505 / AR0021865 001
Report Date: 06/03/19

Composite Date:05/22/19 -05/22/19 Sample Time : 0959,1309,1620 Sample Type : 6HR COMP

Sample From : 1505 EFFLUENT

Collected By: TRL
Delivery By : VLP
Work Order :
Purchase Order :

* QA data sho	05/28 0945 AKA	1600	1400	- 5	1430	Time	Analysis	
QA data shown is from a different sample or standard on the	Nitrate + Nitrite	BOD, Carbonaceous	Solids, Total Suspended	Phosphorous, Total (as P)	Ammonia as N, (HACH 10205)	Parameter		
ole or standard on the	1.22 mg/L	< 2.0 mg/L	< 2.5 mg/L	< 0.050 mg/L		Result		Laboratory Analysis
same date.				THE STREET STREET, STR		Notes Quantity		
	01/2013 HACH 10206	SM 2001 5210 B	SM 2011 2540 D	EPA 365.3	SM 2011 4500-NH3 F	Method		
	1.08				1	% RPD	Precision	الماء أ أحد
	105.8 *	85.0 *	N/A *	107.0 *	100.2	* Recovery	Accinator Securator	Dagirona

Signature

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Corporate Office 13715 West Markham Little Rock, AR 72211 L. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
1. (479)750-1170 Fax (479)750-1172

Customer Name: EUREKA SPRINGS, CITY OF Customer/Permit No.: 1505 / AR0021865 001 Report Date: 05/24/19 Control Number: 1905020199 Sample Sample Sample Sample Date : 05/23/19 From: Type : GRAB Time : 1505 EFFLUENT 8080 Delivery By : WLP Purchase Order: Work Order : Collected By: TRL

* QA data shov		Analysis Date Time By 05/24 1600 TSB
QA data shown is from a different sample or standard on the same data		Parameter Fecal Coliform (MPN/100mL
or standard on the same		Laboratory Analysis Result Notes < 1.0 /100ml
Du to		Quantity
		Method 06/2012 Colilert18
		Quality Precision % RPD 0.00
	0.70	Quality Assurance Precision Accuracy % RPD % Recovery 0.00 0.0 *

" QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of

the start of the analytical batch in which the specific sample was included.

Signature

(501) 221-2565 Little Rock, AR 72211 Corporate Office 13715 West Markham Fax (501)221-1341

(479)750-1170 Northwest Arkansas Branch Springdale, AR 72702 C1760-1170 Fax (479)750-1172 1107 Century Avenue

Customer Name : EUREKA SPRINGS-INFLUENT Customer Number : 1508 Control Number: 1905020171 Report Date : 06/03/19 Sample Type : 6HR COMP Sample Time : 1002, 1105, 1215 Sample From : Composite Date: 05/22/19 -05/22/19 1508 INFLUENT Tel. Work Order : Delivery By : VLP Collected By: TRL

Purchase Order :

			•			
* QA data sho			05/23 1400 TSB 05/28 0945 AKA	05/24 1600 TSB 05/24 1430 TSB	Date Time By	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
shown is from a different sample or standard on the same date			Solids, Total Suspended Nitrate + Nitrite	BOD, 5-day Ammonia as N, (HACH 10205)	Parameter	
le or st	÷					Laborat
tandard on t			99.0 mg/L 0.53 mg/L	108.4 mg/L 16.20 mg/L	Result	Laboratory Analysis
he same					Notes	102
date.					Ouantity	
			EPA 365.3 SM 2011 2540 D 01/2013 HACH 10206	SM 2011 5210 B SM 2011 4500-NH3 F	Method	
			0.77 8.12 1.08		Pr	Quality.
			107.0 * N/A * 105.8	92.3	Accuracy	Quality Assurance

מדת טוו נווכ שמווכ מפרבי

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of Quality Assurance Plan on file with Arkansas Department of Environmental Quthe start of the analytical batch in which the specific sample was included.

Signature

Environmental Services Company, Inc.
Corporate Office

Little Rock, AR 72211 13715 West Markham website: www.esclabs.com Little Rock, AR 72215 P.O. Box 55146



Environmental Services Company, Inc.
Northwest Branch Springdale, AR 72764 1107 Century

Phone: 501-221-2565 Fax: 501-221-1341 CHAIN OF CUSTODY Phone 479-750-1170 Fax: 479-750-1172

					Comments:	May (Signature and Emiled Named Name		Refinquished By. (Signature approprinted Name)	intendis)				1508 influent	1508 Influent		1505 Effluent	1505 Effluent	1505 Effluent	Identification	Sample Identification	ESC Client Number:		FAX:	Telephone:		Address:	Company Name:	
Cool all samples to 6 degrees C.						in Name		d Name)	POUR P					1505020171		1	19050 200198	1905020198	ESC Control #	ntification	1505-Effluent	ESWWTP@YAHOO.COM	(479) 253-6974	(479) 253-7410	Eureka Springs, Ar 72632	3174 E. Van Buren	Eureka Springs	Client Information
grees C.					,	5/24/19		Uale Date	~ @			, ,,,,	5/22/15	Sh2/19		1 51/66/5	1/2/19	5/23/19	Date		1508-Influent	O.COM			72632			
						1 8 gr 1		Time	Time			1215	1105	1002	1640	150G	12500	8080°	Time	Sample	πŧ							
						Received for that By Signature and Printed Name	}	Received By. (Signature and Printed Name)	Received By: (Signature and Printed Name)				COMPOSITE	COMPOSITE		COMPOSITE	COMPOSITE	GRAB	Туре	Sample Collection		and Signature(s):		Sampler Name(s):		Purchase Order #:	Permit/Project #:	
	Units:	Reading:	Time:	Analyst:	" FLOW DATA	My Signature and P		lature and Printer	valure and Printer				Water	Water		Water	Water	Water	Matrix			ıre(s):		ıme(s):		rder#:	ect #:	Pro
						Printed Name	þ .	Name)			***************************************		plastic	plastic		plastic	plastic	whiripak	Туре	10	0	Too		173	1		AR#002	Project Information
Chlorinated?	Debris:	DO:	Temp.:	pH:	Field Test	Ş							250 ml	1000 ml		250 ml	1890 ml	300 ml	Volume	Sample Contair	4	is /		13	**		AR#0021865/ Outfall 00	rmation
? Yes No					Time Analyst	5-23-19 [2:	***************************************	Date Date	Control Date			2	H ₂ SO ₄ ,pH <2	none/ice		H ₂ SO ₄ ,pH <2	none/ice	Na ₂ S ₂ O ₃	Preservative	ontainers	1	Lora	5	16 KONG	\ -		fall 001	
						232			S ing								د	-7	#			3		61				
This [Result	Were s	Regular	Used?	Custody Seals:									×		Colif OD()					R
This Document is Page		-		-	Result	Were samples properly Yes	2	100	Seals:		_		×			×	×			3-N(103-	+NC	02(91	TP	(25)	Requested
ent is					ilus		7		4					×					вог)(3)								
Page			ငိ		c	preserved No	Special	Intact?		_				×		_	×		TSS	(28)								Parar
<u></u>			Å,		Units	S. B.] [Parameters

Corporate Office 13715 West Markham Little Rock, AR 72211 el. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Delivery By: NTR Work Order:

Collected By: TL

-06/05/19

Composite Date: 06/05/19

Sample Time : 0939,1249,1559 Sample Type : COMP Sample From : EFFLUENT

> Customer/Permit No. : 1505 / AR0021865 001 Report Date : 06/13/19

Customer Name : EUREKA SPRINGS, CITY OF

Control Number: 1906020029

Purchase Order:

Ouality Assurance	Accuracy	% Recovery	* 0.96	107.0	N/A *	86.0 *	105.8 *							
Ouality	Precision	% RPD	1.38	0.00	2.88	1.60	0.84							
		Method	SM 2011 4500-NH3 F	EPA 365.3	SM 2011 2540 D	SM 2001 5210 B	01/2013 HACH 10206			*		_		
		Notes Quantity												
		Notes	(q)							*				
Laboratory Analysis		Result	12.10 mg/L	< 0.050 mg/L	< 2.5 mg/L	< 2.0 mg/L	< 0.30 mg/L		*					
Ţ	l	Parameter	Ammonia as N, (HACH 10205)	Phosphorous, Total (as P)	Solids, Total Suspended	BOD, Carbonaceous	Nitrate + Nitrite							
	Analysis	Date Time By	06/07 1430 TSB	1010	1344	06/07 0800 TSB	1305							

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. (b) Exceeds Permit Limits for Maximum Concentration

* QA data shown is from a different sample or standard on the same date.

where applicable for Quality Assurance purposes. Analysis time indicates the time of A minimum of 10% spiked and duplicate samples is run on each parameter where appl Quality Assurance Plan on file with Arkansas Department of Environmental Quality. the start of the analytical batch in which the specific sample was included.

Signature

Inc. Services Company, Environmental

Northwest Arkansas Branch 1107 Century Avenue Tel. Little Rock, AR 72211 11)221-2565 Fax (501)221-1341 13715 West Markham Corporate Office (501)221-2565

Springdale, AR 72762 (479)750-1170 Fax (479)750-1172 Delivery By : NTR Collected By: TL Purchase Order : Work Order : Sample Time : 1408 Sample Type : GRAB Sample From : EFFLUENT 06/06/19 Customer/Permit No. : 1505 / AR0021865 001 Customer Name : EUREKA SPRINGS, CITY OF Control Number: 1906020035 Report Date : 06/07/19

Muality Assurance	Accuracy	% Recovery	* 0.0
Quality	Precision	% RPD	00.0
		Method	06/2012 Colilert18
		Quantity	
ω)		Notes	딥
Laboratory Analysis		Result	1.0 /100
П		Parameter	Fecal Coliform (MPN/100mL
	Analysis	Time	06/06 1708 TSB

* QA data shown is from a different sample or standard on the same date.

where applicable for Quality Assurance purposes. 1 Quality. Analysis time indicates the time of All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of

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Signature / // f ...
Environmental Services Co., Inc.

Inc. Environmental Services Company,

Northwest Arkansas Branch 13715 West Markham Little Rock, AR 72211 11)221-2565 Fax (501)221-1341 Corporate Office (501)221-2565

Springdale, AR 72762 3)750-1170 Fax (479)750-1172 Delivery By : NTR Collected By: TL Work Order : 1107 Century Avenue Tel. (479)750-1170 -06/05/19 Sample Time : 0943,1254,1402 Sample Type : COMP Sample From : INFLUENT Composite Date:06/05/19 Customer Name : EUREKA SPRINGS-INFLUENT Control Number: 1906020030 Customer Number: 1508

Report Date : 06/13/19

Purchase Order :

Quality Assurance	Accuracy	% Recovery	96.0	* 0.96	107.0 *	N/A *	105.8 *	
Quality	Precision	% RPD	5.75	1.38	00.0	2.88	0.84	
		Method	SM 2011 5210 B	SM 2011 4500-NH3 F	EPA 365.3	SM 2011 2540 D	01/2013 HACH 10206	
		Quantity						
		Notes						
Laboratory Analysis		Result	255.8 mg/L	34.10 mg/L	8.080 mg/L	267.5 mg/L	0.72 mg/L	
				Ammonia as N, (HACH 10205)		Solids, Total Suspended	Nitrate + Nitrite	
	Analysis					06/10 1344 TSB	06/07 1305 AKA	

* QA data shown is from a different sample or standard on the same date.

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Signature / / / // Bryironmental Services Co., Inc.

Corporate Office
13715 West Markham P.O. Box 55146
Little Rock, AR 72215
website: www.esclabs.com Environmental Services Company, Inc.

Fax: 501-221-1341

Phone: 501-221-2565

Environmental Services Company, Inc. Springdale, AR 72764 Northwest Branch 1107 Century

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

	Client Information				Dro	Droject Information	rmation		-	Dog	docto	D2	Redilected Darameters
)	SIGNE THOM HARDY			-	2	201 100	Hanon		1	7	neon	<u>.</u>	allerers
Company Name:	Eureka Springs			Permit/Project #:	oct #:	AR#002	AR#0021865/ Outfall 001	tfall 001			(55)		
Address:	3174 E. Van Buren			Purchase Order #:	rder #:						9T(1		
	Eureka Springs, Ar 72632	- 72632			L	1		1			L6)2(
Telephone:	(479) 253-7410			Sampler Name(s):	me(s):	150	188	2 Low 6			+NC		
FAX:	(479) 253-6974							0			1O3-		
	ESWWTP@YAHOO	O.COM		and Signature(s):	re(s):	Ton	3	france	GY	C+)	1,(△		
ESC Client Number:	1505-Effluent	1508-Influent	ent				2.1	N			/'GL		
Sample Identification	ıtification		Sample	Sample Collection)	Sample C	Sample Containers	3:100	iloc)ao		(28)	
Identification	ESC Control #	Date	Time	Type	Matrix	Туре	Volume	Preservative	1 #			108 227	
1505 Effluent	1906020035	61176	80/7/	GRAB	Water	whirlpak	300 ml	Na ₂ S ₂ O ₃	7-11	×			•
1505 Effluent	1906020029	6/3/19	0939	COMPOSITE	Water	plastic	1890 ml	none/ice	-	×		×	
1505 Effluent		6/13/07	6451	COMPOSITE	Water	plastic	250 mi	H ₂ SO ₄ ,pH <2	-		×		
		, ,	4551					,					
1508 Influent	1406020030	6/8/6	6943	COMPOSITE	Water	plastic	1000 ml	none/ice	1		^	×	
1508 Influent		6/3/3	1254	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ ,pH <2	_		×		
		. ,).	1405										
Relinquished By: (Signature and Printed Name)	Less Ron	10/0/0	Time 75.98		My 2 NC	Name Name)	1 67-99	Lane Co	Custody Seals: Used?	als:	IIţ	Intact?
Relifiquished Byr (Signature and Byfile-	fried Name)	Dafe /	Time	Received By: (Signalupe and Printed Name)	alune and Printed	Name)		Dale	Time	Turnaround Regular	. 3	ďS	Special
Relinguished By. (Signature and Printed Nag	O C O O D	(5-6-19	1630	Received for ab By.	C. (Signature and Printed Name)	Printed Name)	بو	(c/6/1/1/1/2	7 Time V	Were samples		properly preserved:	served: No
Comments: V /	0				FLOW DATA		Field Test	Time Analyst	П	Result	Result	\vdash	Units
>					Analyst:		PH:		1			٥	□ ₀
					Beading.		- CC		T			2	-
					Units:		Debris:		-			-	
7	Cool all samples to 6 degrees C.	egrees C.					Chlorinated?	P Yes No	_	This Document is	ument	is Page	ge of
	- :												

Fax (501)221-1341 Little Rock, AR 72211 13715 West Markham Corporate Office (501)221-2565

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

-06/19/19 Sample Time : 0842,1242,1529 Composite Date:06/19/19 Sample From : EFFLUENT Sample Type : COMP Customer/Permit No. : 1505 / AR0021865 001 Customer Name : BUREKA SPRINGS, CITY OF Control Number: 1906020066 Report Date : 06/28/19

Work Order : Purchase Order :

Delivery By : JEW

Collected By: TL

Onality Againance	Dreci eion Accirca	* RPD * Recovery	0.78 105.0 *				1.36 108.0	
-		Method	SM 2011 4500-NH3 F	EPA 365.3	SM 2011 2540 D	SM 2001 5210 B	01/2013 HACH 10206	
rsis		Notes Quantity	1/1	1/17	1/1	I/L	1/T	
Laboratory Analysis		Result				< 2.0 mg	1.86 mg/L	
		Parameter	Ammonia	Phosphorous, Total (as P)	Solids, Total Suspended	BOD, Carbonaceous		
	Analysis	Date Time By	06/21 1410 TSB	06/21 0930 AKA	06/24 1230 TSB	06/21 0800 TSB	06/27 1230 TSB	

QA data shown is from a different sample or standard on the same date.

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Signature

4

Springdale, AR 72762 (479)750-1170 Fax (479)750-1172 Northwest Arkansas Branch 1107 Century Avenue Fax (501)221-1341 13715 West Markham Little Rock, AR 72211 Corporate Office (501)221-2565

Delivery By : JEW Collected By: TL Purchase Order: Work Order 06/20/19 Sample From : EFFLUENT 0938 Sample Type : GRAB Time Date Sample Sample Customer Name: EUREKA SPRINGS, CITY OF Customer/Permit No.: 1505 / AR0021865 001 Report Date: 06/24/19 Control Number: 1905020070

uality Assurance	Accuracy % Recovery 0.0	
Quality	Precision % RPD 0.00	
	Method 06/2012 Colilert18	
	Quantity	
ysis	Notes 100ml	
Laboratory Analysis	Result < 2.0 /	
I	Parameter ecal Coliform (MPN/100mL	
	Analysis <u>Date Time By</u> 06/20 1630 TSB Feca	

* QA data shown is from a different sample or standard on the same date.

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Signature

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 1. (479)750-1170 Fax (479)750-1172

Delivery By : JEW Collected By: TL Purchase Order : Work Order 61/61/90 Sample From : INFLUENT 1226 GRAB Sample Type Sample Time Date Customer Name : EUREKA SPRINGS-INFLUENT Control Number: 1906020067 Customer Number: 1508 Report Date : 06/28/19

Quality Assurance	n Accuracy		90.06				108.0 *	
Qualit	Precisio	% RPD	0.46	0.78	2.79	3.73	1.36	
		Method	SM 2011 5210 B	SM 2011 4500-NH3 F	EPA 365.3	SM 2011 2540 D	01/2013 HACH 10206	7
		Notes Quantity						
ω)		Notes				_		
Laboratory Analysis		Result	109.1 mg/L					
		Parameter	BOD, 5-day	Ammonia as N, (HACH 10205)	Phosphorous, Total (as P)	Solids, Total Suspended	Nitrate + Nitrite	
	Analysis	Date Time By	06/21 0800 TSB	06/21 1410 TSB	06/21 0930 AKA	06/24 1230 TSB	06/27 1230 TSB	

* QA data shown is from a different sample or standard on the same date.

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Signature_

Environmental Services Company, Inc. Corporate Office

P.O. Box 55146 Little Rock, AR 72215 Little Rock, AR 72211 Little Rock website: www.esclabs.com 13715 West Markham

Environmental Services Company, Inc. Northwest Branch Springdale, AR 72764 1107 Century

CHAIN OF CUSTODY

Phone: 501-221-2565	Fax: 501-221-1341		공 -	CHAIN OF CUSTODY	F CUS	TOD	_	Phone	Phone 479-750-1170	50-117		Fax:: 4	479-750-1172	72
	Client Information			9	Pro	Project Information	rmation			Rec	Requested	d Pa	Parameters	
Company Name:	Eureka Springs			Permit/Project #:	ect #:	AR#0021865/ Outfall 001	1865/ Out	fall 001			(55)			
Address:	3174 E. Van Buren			Purchase Order #:	order #:						9T(।			
	Eureka Springs, Ar 7	72632				1	<	7-			.6)²(~~~		
Telephone:	(479) 253-7410	,		Sampler Name(s):	ame(s):	(ER	CR8 12	LONG			+NC			-
FAX:	(479) 253-6974				•				Ì		103.			
	ESWWTP@YAHOO	O.COM		and Signature(s):	rre(s):	Jan	m R	Long			1,(A			
ESC Client Number:	1505-Effluent	1508-Influent	ent				115	Ž			′'91.			NAME OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,
Sample Identification	entification		Sample	Sample Collection		7	Sample C	Sample Containers		tiloc)ao)N-ε	(E)C		out-
Identification	ESC Control #	Dafe	Time	Type	Matrix	Type	Volume	Preservative	#					
1505 Effluent	1906020008	15/00/	BE 169	GRAB	Water	whirlpak	300 mI	Na ₂ S ₂ O ₃	1	×				
1505 Effluent		6/16/16	7480	COMPOSITE	Water	plastic	1890 ml	none/ice	Ψ-	×		×		
1505 Effluent		6/16/19	747	COMPOSITE	Water	plastic	250 mf	H ₂ SO ₄ ,pH <2	1		×			
		-	1 20											
1508 Influent	1906020067	6/16/12	1226	GRAB	Water	plastic	1000 ml	none/ice	-			×		
1508 Influent		0/16/10	1226	GRAB	Water	plastic	250 mľ	H ₂ SO ₄ ,pH <2			×			
												-		
Relinguished By. (Signature/and Printed Mame)	Inted Mame)	Coloate Colonic	Time	Regelved By: (Sig	Regived By: (Signature and Printed Name)	Name)	3. Hrs	Date // // // // //	Time (C)	Custody Seals:	eals:	2	Chack	
Belinquished By: (Sighature of the Prin	di Printed Name)	Date /	Time	Received By: (Sig	Received By: (Signature and Printed Name)	Name)	15011	Date	-	Turnaround	ij			Τ
0			,						u.	Regular		Sp	Special	
Refinglished By. (Bignature and Printed Name)	ONDO 11 HST.	Date 6-70-19	Time	Received for Lab E	Received for Lab By: (Signalure and Printed Name)	Printed Name)	LOSON	0ale 6-20-19 14	Time V	Were samples properly preserved:	ples prop	erly pre	served:	
Comments:				10-1-11	FLOW DATA	TA	Field Test	Time Analyst	T	Result	Result	-	Units	Γ
					Analyst:		pH:							
					Time:		Temp.:					ပ္	ļ.	٦
					Reading:		00:					+		T
					Units:		Debris:			,			-	T
	Cool all samples to 6 degrees C.	egrees C.					Chlorinated?	? Yes No		This Document is Page	cumen	is Pa	ge of	

Inc. Services Company, Environmental

(501) 221-2565 Fax (501) 221-1341 Little Rock, AR 72211 13715 West Markham Corporate Office

Springdale, AR 72762 (479)750-1170 Fax (479)750-1172 Northwest Arkansas Branch 1107 Century Avenue

> Composite Date:06/26/19 Customer/Permit No. : 1505 / AR0021865 001 Customer Name : EUREKA SPRINGS, CITY OF Control Number: 1906020098 Report Date : 07/03/19

-06/26/19 Sample Time : 0713,1024,1345 Sample From : EFFLUENT Sample Type : COMP

Delivery By : JEW Purchase Order : Work Order

Collected By:

Accuracy Quality Assurance Precision & RPD Quantity Notes Laboratory Analysis Result Parameter Date Time By 06/28 1115 TSB Analysis

01/2013 HACH 10206 SM 2011 4500-NH3 EPA 365.3 SM 2011 2540 D SM 2001 5210 B Method

< 0.050 mg/L < 2.5 mg/L < 2.0 mg/L

0.60 mg/L

mg/I

0.25

Ammonia as N, (HACH 10205) Phosphorous, Total (as P)

> TSB TSB TSB

1400 06/28 1427 07/02

Solids, Total Suspended

BOD, Carbonaceous Nitrate + Nitrite

06/28 0900 07/02 1000

% Recovery

102.2

1.18 0.54 5.06

94.0 105.0 N/A

A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included. All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136.

* QA data shown is from a different sample or standard on the same date.

Environmental Services Co., Inc. Signature

Inc. Environmental Services Company,

Springdale, AR 72762 (479)750-1170 Fax (479)750-1172 Northwest Arkansas Branch 1107 Century Avenue Fax (501)221-1341 13715 West Markham Little Rock, AR 72211 Corporate Office (501) 221-2565

% Recovery Accuracy Quality Assurance Precision Delivery By : JEW % RPD Collected By: TL Purchase Order: 0.00 Work Order 06/2012 Colilert18 Method Quantity Sample From : EFFLUENT 06/27/19 * QA data shown is from a different sample or standard on the same date. : GRAB 0834 Notes Sample Type Sample Time Sample Date < 2.0 /100ml Laboratory Analysis Result Customer/Permit No. : 1505 / AR0021865 001 Report Date : 06/28/19 Fecal Coliform (MPN/100mL Customer Name : EUREKA SPRINGS, CITY OF Parameter Control Number: 1906020100 Date Time By 06/27 1620 TSB Analysis

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136.

where applicable for Quality Assurance purposes. Quality. Analysis time indicates the time of A minimum of 10% spiked and duplicate samples is run on each parameter where appl Quality Assurance Plan on file with Arkansas Department of Environmental Quality. the start of the analytical batch in which the specific sample was included.

Signature () () () () Environmental Services Co., Inc.

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Collected By: TL Delivery By : JEW Purchase Order : Work Order -06/26/19 Sample Time : 1027,1730,1243 Sample Type : COMP Sample From : INFLUENT Composite Date:06/26/19 Customer Name : EUREKA SPRINGS-INFLUENT Control Number: 1906020099 Customer Number: 1508 Report Date : 07/03/19

Quality Assurance	Precision Accuracy					
	M to Co	SM 2011 5210 B	SM 2011 4500-NH3 F	EPA 365.3	SM 2011 2540 D	01/2013 HACH 10206
t	Ouantity					·
	Notes					
Laboratory Analysis	Result	216.8 mg/L	29.70 mg/L	7.090 mg/L	280.0 mg/L	0.52 mg/L
<u> </u>	Parameter	BOD, 5-day	Ammonia as N, (HACH 10205)	Phosphorous, Total (as P)	Solids, Total Suspended	Nitrate + Nitrite
,	Analysis Date Time By	06/28 0900 TSB	06/28 1115 TSB	07/02 1400 TSB	06/28 1427 TSB	07/02 1000 TSB

* QA data shown is from a different sample or standard on the same date.

A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included. All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136.

Signature

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website: www.esclabs.com

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Fax: 501-221-1341

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CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

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	AIGHT HINDINIATION	***************************************			212	riojeci iiiioiiiiaiioii	IIIIalloll			ב	dnesu	ed La	Requested Parameters	S
Company Name:	Eureka Springs			Permit/Project #:	%ct #:	AR#002	AR#0021865/ Outfall 001	fall 001			(55)			
Address:	3174 E. Van Buren	_		Purchase Order #:	rder #:						чт(
	Eureka Springs, Ar	Ar 72632			•	1		-			16)z			-44-444
Telephone:	(479) 253-7410			Sampler Name(s):	me(s):	/EK	169 M	LLONG			ON+			Away Sayura
FAX:	(479) 253-6974) • • • • • • • • • • • • • • • • • • •			0		(1O ³ +			
	ESWWTP@YAHOO	O.COM		and Signature(s):	re(s):	Torres	in Ro	Long		(43	Λ,(Α			******
ESC Client Number:	1505-Effluent	1508-Influent	int					1		_				
Sample Identification	tification		Sample	Collection		3	Sample C	Containers		iloc OD()N-E	(8S)	(0.3)	
Identification	ESC Control #	Date	Time	Туре	Matrix	Type	Volume	Preservative	# 0		HN	108 22T		
1505 Effluent	1902020160	12/10	4580	GRAB	Water	whirlpak	300 ml	Na ₂ S ₂ O ₃	-	×				
1505 Effluent	1906020098	19/0/19	0113	COMPOSITE	Water	plastic	1890 mí	none/ice	1	×		×		
1505 Effluent		dolpa	hea/	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ ,pH <2	1		×			
			(24)							,				
1508 Influent	19060200099	6/20/19	1027	COMPOSITE	Water	plastic	1000 ml	none/ice	1			×		
1508 Influent		6/20/15	1130	COMPOSITE	Water	plastic	250 ml	H ₂ SO₄,pH <2	-		×			
		//	1343											
Relinquistred By: (Signature and Princed Name)	GARG RLONG	GJ7/19	Time	Received By: (Signature and Printed Name)	lature and Printed		W.Hse	6-27-19 1	_	Custody Seals: Used?	Seals:	드	Intact?	
Relinquished By: (Signature and Printed Name)	Name)	Dáte '	Time	Received By. (Signature and Printed Name)	ature and Printed	Name)		Date	Time	Turnaround Regular		Š	Special	
Rainpluished By. (Signature and Printed Name)	Printed Name) Wilts	6/27/19	1300	Received for Lab By. (Signature and Prighted Name)	r. (Signature and	Pripting d Name)		6/27/19	Time (300)	Were sam Yes	Were samples properly preserved: Yes X No	perly pre	served: No	
Comments:					FLOW DATA	TA	Field Test		Analyst	Result	Result	_	Units	
				1	Analyst		pH:							
					Time:		Temp.:					၁	٦,	
					Reading:		::				_			
					Units:		Debris:	- 1		l		-	ŀ	T
	Cool all samples to 6 degre	egrees C.					Chlorinated? Yes	? Yes (No)		This D	This Document is Page	nt is Pa	ig.	