

ADEQ

A R K A N S A S
Department of Environmental Quality

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

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

 A R K A N S A S Department of Environmental Quality	OFFICE OF WATER QUALITY INSPECTION REPORT				
	AFIN: 08-00036	PERMIT #: AR0021865	DATE: 8/15/2019		
	COUNTY: 08 Carroll	PDS #: 109467	MEDIA: WN		
	GPS LAT: 36.419674 LONG: -93.734624 LOCATION: Entrance				
FACILITY INFORMATION		INSPECTION INFORMATION			
NAME: City of Eureka Springs WWTP LOCATION: 100 Highway 23 North CITY: Eureka Springs, AR		FACILITY TYPE: 1 - Municipal INSPECTOR ID#: 104111 S - State FACILITY EVALUATION RATING: N INSPECTION TYPE: Reconnaissance DATE(S): 8/15/2019 ENTRY TIME: 12:55 EXIT TIME: 13:40 PERMIT EFFECTIVE DATE: 2/1/2019 PERMIT EXPIRATION DATE: 1/31/2024			
RESPONSIBLE OFFICIAL		FAYETTEVILLE SHALE RELATED: N			
NAME / TITLE: Butch Berry / Mayor COMPANY: City of Eureka Springs MAILING ADDRESS: 44 South Main Street CITY, STATE, ZIP: Eureka Springs AR 72632 PHONE & EXT. / FAX: / EMAIL:		FAYETTEVILLE SHALE VIOLATIONS: N			
CONTACTED DURING INSPECTION: No		INSPECTION PARTICIPANTS			
		NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Terry Long/Plant Manager/Class IV Operator/479-981-0707 Garrett Grimes, District 1 Inspector, ADEQ			
AREA EVALUATIONS <small>(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)</small>					
S	PERMIT	N	FLOW MEASUREMENT	N	STORMWATER
N	RECORDS/REPORTS	N	LABORATORY	N	FACILITY SITE REVIEW
S	OPERATION & MAINTENANCE	N	EFFLUENT/RECEIVING WATER	N	SELF-MONITORING PROGRAM
N	SAMPLING	N	SLUDGE HANDLING/DISPOSAL	N	PRETREATMENT
N	OTHER:				
SUMMARY OF FINDINGS					
<p>Narrative:</p> <p>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.</p> <p>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.</p> <p>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).</p> <p>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).</p>					

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: <i>Garrett Grimes</i>	Garrett Grimes	DATE: 9/10/2019
SUPERVISOR'S SIGNATURE: <i>Brent L Walker</i>	Brent L. Walker	DATE: 9/25/2019

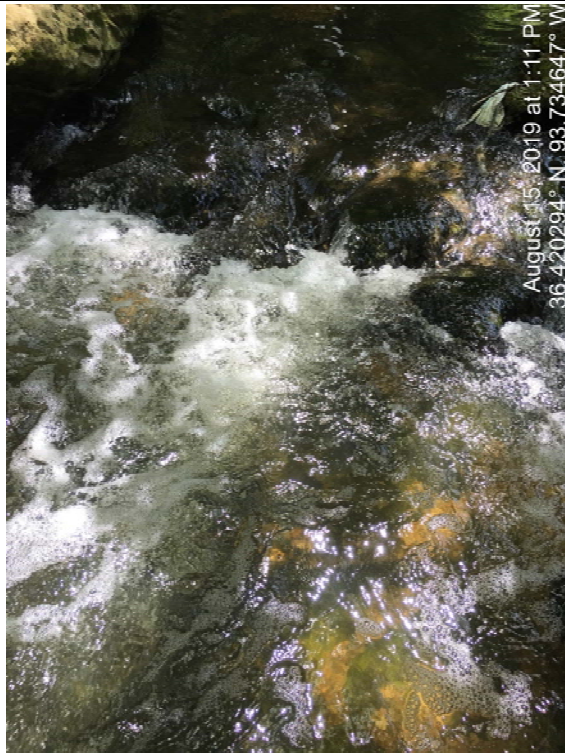
Office of Water Quality Photographic Evidence Sheet

Location:	City of Eureka Springs WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	8/15/2019
Time:		Photo #:	1
Witness:			
Description:	Effluent discharge from the facility during the inspection.		



August 15, 2019 at 1:13 PM
36.420217° N, 93.734582° W

Photographer:	Garrett Grimes, District 1 Inspector	Date:	8/15/2019
Time:		Photo #:	2
Witness:			
Description:	No solids observed in the effluent entering the stream.		



August 15, 2019 at 1:11 PM
36.420294° N, 93.734647° W

Office of Water Quality Photographic Evidence Sheet

Location:	City of Eureka Springs WWTP				
Photographer:	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 Inspector	Date:	8/15/2019	Time:	13:21
Witness:				Photo #:	4
Description:	Possible solids accumulating from prior discharges.				



Attachment 1

May & June 2019 Flow and Sample Records

**MAY
2019**

DATE	DAILY FLOW (MGD)	D. O.	pH	SAMPLE DAY
1	1.452	-	-	
2	0.641	-	-	
3	1.161	-	-	
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	-	-	
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	-	-	
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.	pH	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. DAILY FLOW	MGD
0.287	MIN DAILY FLOW	MGD
6.204	TOTAL RAIN FALL	INCHES

Environmental Services Company, Inc.

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

Control Number: 1905020092
 Customer Name : EUREKA SPRINGS, CITY OF
 Customer/Permit No. : 1505 / AR0021865 001
 Report Date : 05/23/19

Composite Date: 05/15/19 -05/15/19
 Sample Time : 0700, 1010, 1320
 Sample Type : COMP
 Sample From : EFFLUENT

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

Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy & Recovery
05/17	1320	AKA	Ammonia as N, (HACH 10205)	0.12 mg/L			SM 2011 4500-NH3 F	0.54	107.8 *
05/20	1040	AKA	Phosphorous, Total (as P)	< 0.050 mg/L			EPA 365.3	0.82	106.0 *
05/21	0910	TSB	Solids, Total Suspended	< 2.5 mg/L			SM 2011 2540 D	8.11	N/A *
05/17	1600	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	6.14	86.0 *
05/17	1445	AKA	Nitrate + Nitrite	0.71 mg/L			01/2013 HACH 10206	0.87	107.6 *

Laboratory Analysis

* 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 
 Environmental Services Co., Inc.

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

Control Number: 1905020095
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No.: 1505 / AR0021865 001
 Report Date: 05/20/19

Sample Date: 05/16/19
 Sample Time: 1128
 Sample Type: GRAB
 Sample From: EFFLUENT

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance Precision & RPD	Assurance Accuracy & Recovery
05/16	1620	TSB	Fecal Coliform (MPN/100mL)	< 2.0	/100mL		06/2012 Colilert18	0.00	0.0

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1905020093
 Customer Name : EUREKA SPRINGS- INFLUENT
 Customer Number : 1508
 Report Date : 05/23/19

Sample Date : 05/15/19
 Sample Time : 1013
 Sample Type : GRAB
 Sample From : INFLUENT

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

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/17	1600	TSB	BOD, 5-day	186.9 mg/L			SM 2011 5210 B	1.55	94.1
05/17	1320	AKA	Ammonia as N, (HACH 10205)	24.90 mg/L			SM 2011 4500-NH3 F	0.54	107.8 *
05/20	1040	AKA	Phosphorous, Total (as P)	5.510 mg/L			EPA 365.3	0.82	106.0 *
05/21	0910	TSB	Solids, Total Suspended	195.0 mg/L			SM 2011 2540 D	8.11	N/A *
05/17	1445	AKA	Nitrate + Nitrite	0.54 mg/L			01/2013 HACH 10206	0.87	107.6 *

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 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com



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

Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

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

Client Information

Company Name: Eureka Springs
 Address: 3174 E. Van Buren
 Eureka Springs, AR 72632
 Telephone: (479) 253-7410
 (479) 253-6974
 FAX: (479) 253-6974
 ESC Client Number: 1505-Effluent 1508-Influent

Project Information

Permit/Project #: AR#021865/ Outfall 001
 Purchase Order #:
 Sampler Name(s): Terry R. Lewis
 and Signature(s): Terry R. Lewis

Requested Parameters

F. Coliform(43)
 CBOD(70)
 NH₃-N(15.A), NO₃+NO₂(91)TP(25)
 BOD(3)
 TSS(28)

Identification	ESC Control #	Sample Collection		Matrix	Type	Volume	Preservative	#	Sample Containers		Requested Parameters
		Date	Time						Type	Volume	
1505 Effluent	1905020095	5/16/19	1128	Water	whitpak	300 ml	Na ₂ S ₂ O ₅	1			X
1505 Effluent	1905020092	5/15/19	0700	Water	plastic	1890 ml	none/ice	1			X
1505 Effluent		5/15/19	1010	Water	plastic	250 ml	H ₂ SO ₄ , pH <2	1			X
1508 Influent	1905020093	5/19/19	1013	Water	plastic	1000 ml	none/ice	1			X
1508 Influent		5/15/19	1013	Water	plastic	250 ml	H ₂ SO ₄ , pH <2	1			X

Requisitioned By: (Signature and Printed Name) Terry R. Lewis
 Date: 5/16/19 Time: 1230
 Received By: (Signature and Printed Name) Terry R. Lewis
 Date: 5-16-19 Time: 1230
 Requisitioned By: (Signature and Printed Name) James D. White
 Date: 5-16-19 Time: 1610
 Received By: (Signature and Printed Name) James D. White
 Date: 5-16-19 Time: 1610

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Control Number: 1905020050
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No.: 1505 / AR0021865 001
 Report Date: 05/15/19

Composite Date: 05/08/19 -05/08/19
 Sample Time: 1300, 1606, 1916
 Sample Type: COMP
 Sample From: EFFLUENT

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

Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
05/10	1400	AKA	Ammonia as N, (HACH 10205)	1.44			SM 2011 4500-NH3 F	1.72	111.2 *
05/13	1000	AKA	Phosphorous, Total (as P)	< 0.050			EPA 365.3	2.65	105.0 *
05/13	1235	TSB	Slids, Total Suspended	< 2.5			SM 2011 2540 D	10.18	N/A *
05/10	1600	TSB	BOD, Carbonaceous	< 2.0			SM 2001 5210 B	11.37	102.9 *
05/10	1050	AKA	Nitrate + Nitrite	1.09			01/2013 HACH 10206	1.38	101.4 *

Laboratory Analysis

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Control Number: 1905020056
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No.: 1505 / AR0021865 001
 Report Date: 05/13/19

Sample Date: 05/09/19
 Sample Time: 0755
 Sample Type: GRAB
 Sample From: EFFLUENT


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

Laboratory Analysis

<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Quality Assurance</u>	
05/09	1553	AKA	Fecal Coliform (MPN/100mL)	< 1.0	/100ml		06/2012 Coli1ert18	Precision & RPD 0.00	Assurance & Recovery 0.0 *

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Control Number: 1905020051
 Customer Name : EUREKA SPRINGS-INFLUENT
 Customer Number : 1508
 Report Date : 05/17/19

Sample Date : 05/08/19
 Sample Time : 1305
 Sample Type : GRAB
 Sample From : INFLUENT

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

Laboratory Analysis

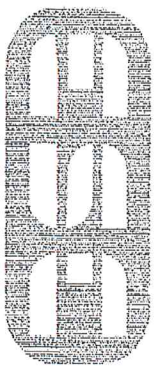
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
05/10	1600	TSB	BOD, 5-day	101.7			SM 2011 5210 B	10.03	104.4
05/10	1400	AKA	Ammonia as N, (HACH 10205)	10.50			SM 2011 4500-NH3 F	1.72	111.2
05/13	1000	AKA	Phosphorous, Total (as P)	2.310			EPA 365.3	2.65	105.0
05/13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

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Phone: 501-221-2565 Fax: 501-221-1341

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

CHAIN OF CUSTODY

Client Information		Project Information		Requested Parameters	
Company Name:	Eureka Springs	Permit/Project #:	AR#0021865/ Outfall 001		
Address:	3174 E. Van Buren Eureka Springs, Ar 72632	Purchase Order #:			
Telephone:	(479) 253-7410	Sampler Name(s):	<i>Teest R Love</i>		
FAX:	(479) 253-6974	and Signature(s):	<i>Tony R Love</i>		
ESC Client Number:	1505-Effluent 1508-Influent				

Identification	ESC Control #	Date	Time	Sample Collection		Sample Containers		F. Coliform(43)	CBOD(70)	NH ₃ -N(15.A),NO ₃ +NO ₂ (91)TP(25)	BOD(3)	TSS(28)	
				Type	Matrix	Type	Volume						Preservative
1505 Effluent	1905020056	5/9/19	0755	GRAB	Water	whitpak	300 ml	Na ₂ S ₂ O ₃	1				X
1505 Effluent	1905020050	5/8/19	1304	COMPOSITE	Water	plastic	1890 ml	none/ice	1				X
1505 Effluent		5/8/19	1606	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ ,pH <2	1				X
1508 Influent	1905620051	5/8/19	1305	GRAB	Water	plastic	1000 ml	none/ice	1				X
1508 Influent		5/8/19	1305	GRAB	Water	plastic	250 ml	H ₂ SO ₄ ,pH <2	1				X

Requested By: (Signature and Printed Name) *Tony R Love* Date: 5-9-19 Time: 1449 Received By: (Signature and Printed Name) *Shelby Nedd Ry...* Date: 5-9-19 Time: 1550

Requested By: (Signature and Printed Name) *Tony R Love* Date: 5-9-19 Time: 1449 Received By: (Signature and Printed Name) *Shelby Nedd Ry...* Date: 5-9-19 Time: 1550

Comments: *Shelby Nedd Ry...*

Flow Data: pH: _____ Temp: _____ DO: _____ Debris: _____ Chlorinated? Yes No

Were samples properly preserved: Regular Special Intact?

Cool all samples to 6 degrees C.

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

Control Number: 1905020198
Customer Name: EURBEKA 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:

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
05/24	1430	TSB	Ammonia as N, (HACH 10205)	1.47 mg/L			SM 2011 4500-NH3 F	2.16	100.2
05/31	0910	AKA	Phosphorus, Total (as P)	< 0.050 mg/L			EPA 365.3	0.77	107.0 *
05/23	1400	TSB	Solids, Total Suspended	< 2.5 mg/L			SM 2011 2540 D	8.12	N/A *
05/24	1600	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	6.30	85.0 *
05/28	0945	AKA	Nitrate + Nitrite	1.22 mg/L			01/2013 HACH 10206	1.08	105.8 *

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Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (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: 1905020199
 Customer Name : BURRKA SPRINGS, CITY OF
 Customer/Permit No. : 1505 / AR0021865 001
 Report Date : 05/24/19

Sample Date : 05/23/19
 Sample Time : 0808
 Sample Type : GRAB
 Sample From : 1505 EFFLUENT

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

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
05/24	1600	Fecal Coliform (MPN/100mL)	< 1.0			06/2012 Coli1erL18	0.00	0.0 *

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Control Number: 1905020171
 Customer Name : EUREKA SPRINGS-INFLUENT
 Customer Number : 1508
 Report Date : 06/03/19

Composite Date: 05/22/19 -05/22/19
 Sample Time : 1002, 1105, 1215
 Sample Type : GHR COMP
 Sample From : 1508 INFLUENT

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

Analysis

Date	Time	BY	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/24	1600	TSB	BOD, 5-day	108.4 mg/L			SM 2011 5210 B	19.35	92.3
05/24	1430	TSB	Ammonia as N, (HACH 10205)	16.20 mg/L			SM 2011.4500-NH3 F	2.16	100.2 *
05/31	0910	AKA	Phosphorous, Total (as P)	3.770 mg/L			EPA 365.3	0.77	107.0 *
05/23	1400	TSB	Solids, Total Suspended	99.0 mg/L			SM 2011 2540 D	8.12	N/A *
05/28	0945	AKA	Nitrate + Nitrite	0.53 mg/L			01/2013 HACH 10206	1.08	105.8

Laboratory Analysis

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 website: www.esclabs.com



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 Northwest Branch
 1107 Century
 Springdale, AR 72764

Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

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

Client Information

Company Name: Eureka Springs
 Address: 3174 E. Van Buren
 Eureka Springs, Ar 72632
 Telephone: (479) 253-7410
 FAX: (479) 253-6974
 ESC Client Number: 1505-Effluent 1508-Influent

Project Information

Permit/Project #: AR#0021865/ Outfall 001
 Purchase Order #: _____
 Sampler Name(s): Terry R Long
 and Signature(s): *Terry R Long*

Requested Parameters

Coliform(43)
 CBOD(70)
 NH₃-N(15.A), NO₃+NO₂(91)TP(25)
 BOD(3)
 TSS(28)

Sample Identification

Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#
1505 Effluent	1905020198	5/23/19	0808	GRAB	Water	Whitpak	300 ml	Na ₂ S ₂ O ₃	1
1505 Effluent	19050200198	5/23/19	0959	COMPOSITE	Water	plastic	1890 ml	none/ice	1
1505 Effluent		5/23/19	1309	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ , pH <2	1
1508 Influent	1905020171	5/23/19	1002	COMPOSITE	Water	plastic	1000 ml	none/ice	1
1508 Influent		5/23/19	1105	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ , pH <2	1

Sample Collection

Sample Containers

Relinquished By: (Signature and Printed Name)
Terry R Long
 Terry R Long

Date: 5/23/19
 Time: 1120

Received By: (Signature and Printed Name)
V.L. V. Ate
 V.L. V. Ate

Date: 5/24/19
 Time: 1120

Custody Seals: Used? Intact?

Relinquished By: (Signature and Printed Name)
V.L. V. Ate
 V.L. V. Ate

Date: 5/23/19
 Time: 1238

Received By: (Signature and Printed Name)
V.L. V. Ate
 V.L. V. Ate

Date: 5/23/19
 Time: 1238

Were samples properly preserved: Yes No

Analyst:	Field Test	Date	Time	Analyst	Result	Result	Units
Analyst:	pH:	5/23/19	1238				
Time:	Temp.:						°C
Reading:	DO:						°F
Units:	Debris:						
	Chlorinated?	Yes	No				

Cool all samples to 6 degrees C.

This Document is Page 1 of 1

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Control Number: 1906020029
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No.: 1505 / AR0021865 001
 Report Date: 06/13/19

Composite Date: 06/05/19 -06/05/19
 Sample Time: 0939, 1249, 1559
 Sample Type: COMP
 Sample From: EFFLUENT

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

Laboratory Analysis

Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Quality Assurance Accuracy % Recovery
06/07	1430 TSB	Ammonia as N, (HACH 10205)	12.10 mg/L	(b)		SM 2011 4500-NH3 F	1.38	96.0 *
06/10	1010 AKA	Phosphorous, Total (as P)	< 0.050 mg/L			EPA 365.3	0.00	107.0
06/10	1344 TSB	Solids, Total Suspended	< 2.5 mg/L			SM 2011 2540 D	2.88	N/A *
06/07	0800 TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	1.60	86.0 *
06/07	1305 AKA	Nitrate + Nitrite	< 0.30 mg/L			01/2013 HACH 10206	0.84	105.8 *

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration

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.

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Control Number: 1906020035
 Customer Name : EUREKA SPRINGS, CITY OF
 Customer/Permit No. : 1505 / AR0021865 001
 Report Date : 06/07/19

Sample Date : 06/06/19
 Sample Time : 1408
 Sample Type : GRAB
 Sample From : EFFLUENT

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

Laboratory Analysis

Analysis
 Date 06/06 Time 1708 By TSB
 Parameter Fecal Coliform (MPN/100mL)
 Result 1.0 / 100ml

Notes _____
 Quantity _____

Method 06/2012 Colilert18

Quality Assurance
 Precision 0.00
 Accuracy 0.00
 % RPD _____
 % Recovery 0.0 *

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Control Number: 1906020030
 Customer Name: EUREKA SPRINGS-INFLUENT
 Customer Number: 1508
 Report Date: 06/13/19
 Composite Date: 06/05/19 -06/05/19
 Sample Time: 0943,1254,1402
 Sample Type: COMP
 Sample From: INFLUENT
 Collected By: TL
 Delivery By: NTR
 Work Order:
 Purchase Order:

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method
06/07	0900	TSB	BOD, 5-Gay	255.8 mg/L			SM 2011 5210 B
06/07	1430	TSB	Ammonia as N, (HACH 10205)	34.10 mg/L			SM 2011 4500-NH3 F
06/10	1010	AKA	Phosphorous, Total (as P)	8.080 mg/L			EPA 365.3
06/10	1344	TSB	Solids, Total Suspended	267.5 mg/L			SM 2011 2540 D
06/07	1305	AKA	Nitrate + Nitrite	0.72 mg/L			01/2013 HACH 10206

Quality Assurance	Precision	Accuracy
% RPD	% RPD	% Recovery
5.75	5.75	96.0
1.38	1.38	96.0 *
0.00	0.00	107.0 *
2.88	2.88	N/A *
0.84	0.84	105.8 *

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

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Company Name: Eureka Springs				Permit/Project #: AR#0021865/ Outfall 001									
Address: 3174 E. Van Buren				Purchase Order #:									
Eureka Springs, Ar 72632				Sampler Name(s): Terry R Long									
Telephone: (479) 253-7410				and Signature(s): Terry R Long									
FAX: (479) 253-6974													
ESC Client Number: 1505-Effluent				1508-Influent									
ESWVTP@YAHOO.COM													
Sample Identification		Sample Collection		Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	CBOD(70)	NH ₃ -N(15.A), NO ₃ ⁻ , NO ₂ ⁻ (9) TP(25)	BOD(3)	TSS(28)
1505 Effluent	1906020035	6/6/19	1408	GRAB	Water	whirlpak	300 ml	Na ₂ S ₂ O ₃	1	X			
1505 Effluent	1906020029	6/5/19	0959	COMPOSITE	Water	plastic	1890 ml	none/ice	1	X			X
1505 Effluent	+	6/5/19	1249	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ , pH <2	1		X		
			1559										
1508 Influent	1906020030	6/5/19	0943	COMPOSITE	Water	plastic	1000 ml	none/ice	1			X	
1508 Influent	+	6/5/19	1254	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ , pH <2	1		X		
			1500										
Relinquished By: (Signature and Printed Name) Terry R Long		Date: 6/6/19	Time: 1438	Received For Lab By: (Signature and Printed Name) Ned Long - Ned Long		Date: 6/6/19	Time: 1638	Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name) Terry R Long		Date: 6/6/19	Time: 1438	Received By: (Signature and Printed Name) Terry R Long		Date: 6/6/19	Time: 1638	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>					
Comments: Ned Long - Ned Long		Date: 6/6/19	Time: 1630	FLOW DATA		Field Test	Time	Analyst	Result	Result	Units		
				Analyst:		ph:							
				Time:		Temp.:						°C °F	
				Reading:		DO:							
				Units:		Debris:							
				Chlorinated?		Yes	No						

Cool all samples to 6 degrees C.

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Control Number: 1906020066
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No.: 1505 / AR0021865 001
 Report Date: 06/28/19
 Composite Date: 06/19/19 -06/19/19
 Sample Time: 0842,1242,1529
 Sample Type: COMP
 Sample From: EFFLUENT
 Collected By: TL
 Delivery By: JEW
 Work Order:
 Purchase Order:

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Quality Assurance Accuracy % Recovery
06/21	1410	TSB	Ammonia as N, (HACH 10205)	1.89 mg/L			SM 2011 4500-NH3 F	0.78	105.0 *
06/21	0930	AKA	Phosphorous, Total (as P)	< 0.050 mg/L			EPA 365.3	2.79	108.0
06/24	1230	TSB	Solids, Total Suspended	< 2.5 mg/L			SM 2011 2540 D	3.73	N/A *
06/21	0800	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	8.13	94.0 *
06/27	1230	TSB	Nitrate + Nitrite	1.86 mg/L			01/2013 HACH 10206	1.36	108.0

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Control Number: 1906020070
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No. : 1505 / AR0021865 001
 Report Date : 06/24/19

Sample Date : 06/20/19
 Sample Time : 0938
 Sample Type : GRAB
 Sample From : EFFLUENT

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

Laboratory Analysis

<u>Analysis</u>			
<u>Date</u> 06/20 1630 TSB	<u>Parameter</u> Fecal Coliform (MPN/100mL)	<u>Result</u> < 2.0 /100ml	<u>Notes</u>
		<u>Quantity</u>	<u>Method</u> 06/2012 Collert18
		<u>Precision</u> 0.00	<u>Quality Assurance</u>
		<u>% RPD</u>	<u>Accuracy</u>
			<u>% Recovery</u> 0.0

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Control Number: 1906020067
 Customer Name: EUREKA SPRINGS-INFLUENT
 Customer Number: 1508
 Report Date: 06/28/19

Sample Date: 06/19/19
 Sample Time: 1226
 Sample Type: GRAB
 Sample From: INFLUENT


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

Laboratory Analysis

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	% RPD	Precision Accuracy % Recovery
06/21	0800 TSB	BOD, 5-day	109.1 mg/L			SM 2011 5210 B	0.46	90.0
06/21	1410 TSB	Ammonia as N, (HACH 10205)	26.00 mg/L			SM 2011 4500-NH3 F	0.78	105.0 *
06/21	0930 AKA	Phosphorous, Total (as P)	3.640 mg/L			EPA 365.3	2.79	108.0 *
06/24	1230 TSB	Solids, Total Suspended	148.0 mg/L			SM 2011 2540 D	3.73	N/A *
06/27	1230 TSB	Nitrate + Nitrite	0.43 mg/L			01/2013 HACH 10206	1.36	108.0 *

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

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Company Name:		Eureka Springs		Permit/Project #:		AR#0021865/ Outfall 001									
Address:		3174 E. Van Buren		Purchase Order #:											
Telephone:		Eureka Springs, Ar 72632		Sampler Name(s):		TERRY R LONG									
FAX:		(479) 253-7410		and Signature(s):		<i>Terry R Long</i>									
ESC Client Number:		1505-Effluent		ESWWTP@YAHOO.COM											
		1508-Effluent													
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	T. Coliform(43)	CBOD(70)	NH ₃ -N(15.A), NO ₃ +NO ₂ (91) TP(25)	BOD(3)	TSS(28)	
1505 Effluent	1906020088	6/20/19	0938	GRAB	Water	whiripak	300 ml	Na ₂ S ₂ O ₃	1	X					
1505 Effluent	1906020066	6/19/19	0842	COMPOSITE	Water	plastic	1890 ml	none/ice	1		X			X	
1505 Effluent		6/19/19	1529	COMPOSITE	Water	plastic	250 ml	H ₂ SO ₄ pH <2	1			X			
1508 Influent	1906020067	6/19/19	1226	GRAB	Water	plastic	1000 ml	none/ice	1				X		
1508 Influent		6/19/19	1226	GRAB	Water	plastic	250 ml	H ₂ SO ₄ pH <2	1		X				
Reinforced By: (Signature and Printed Name) <i>Terry R Long</i> Terry R Long				Received By: (Signature and Printed Name) <i>James W. Hise</i> James W. Hise				Date 6-20-19 1000				Custody Seals: Used? <input type="checkbox"/> Inlact? <input type="checkbox"/>			
Reinforced By: (Signature and Printed Name) <i>Terry R Long</i> Terry R Long				Received By: (Signature and Printed Name) <i>Alexis Anderson</i> Alexis Anderson				Date 6-20-19 1440				Turnaround: Regular <input type="checkbox"/> Special <input type="checkbox"/>			
Comments:				FLOW DATA				Field Test				Result			
				Analyst:				pH:				Result			
				Time:				Temp.:				°C °F			
				Reading:				DO:							
				Units:				Debris:							
				Chlorinated?				Yes No				This Document is Page ___ of ___			

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

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

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

Laboratory Analysis

Analysis		Result		Notes	Quantity	Method	Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
06/28	1115 TSB	Ammonia as N, (HACH 10205)	0.25 mg/L			SM 2011 4500-NH3 F	1.18	102.2 *
07/02	1400 TSB	Phosphorous, Total (as P)	< 0.050 mg/L			EPA 365.3	0.54	105.0 *
06/28	1427 TSB	Solids, Total Suspended	< 2.5 mg/L			SM 2011 2540 D	1.36	N/A *
06/28	0900 TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	5.06	94.0 *
07/02	1000 TSB	Nitrate + Nitrite	0.60 mg/L			01/2013 HACH 10206	0.52	103.2

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Control Number: 1906020100
 Customer Name: EUREKA SPRINGS, CITY OF
 Customer/Permit No.: 1505 / AR0021865 001
 Report Date: 06/28/19

Sample Date: 06/27/19
 Sample Time: 0834
 Sample Type: GRAB
 Sample From: EFFLUENT

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

Laboratory Analysis

Analysis
 Date 05/27 Time 1620 TSB
 Parameter Fecal Coliform (MPN/100mL)
 Result < 2.0 /100mL
 Notes
 Quantity
 Method 06/2012 Colilert18

Quality Assurance
 Precision 0.00
 Accuracy 0.0
 % RPD
 % Recovery

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 Tel. (479) 750-1170 Fax (479) 750-1172


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

Laboratory Analysis

Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Quality Assurance Accuracy % Recovery
06/28	0900	TSB				SM 2011 5210 B	1.71	94.0
06/28	1115	TSB	216.8 mg/L			SM 2011 4500-NH3 F	1.18	102.2 *
07/02	1400	TSB	29.70 mg/L			EPA 365.3	0.54	105.0
06/28	1427	TSB	7.090 mg/L			SM 2011 2540 D	20.69	N/A
07/02	1000	TSB	280.0 mg/L			01/2013 HACH 10206	0.52	103.2 *
			0.52 mg/L					

* 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 
 Environmental Services Co., Inc.



Environmental Services Company, Inc.
 Corporate Office
 13715 West Markham P.O. Box 55146
 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.eslabs.com

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

CHAIN OF CUSTODY

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

Client Information				Project Information				Requested Parameters											
Company Name:		Eureka Springs		Permit/Project #:		AR#0021865/ Outfall 001		F. Coliform(43)		CBOD(70)		NH ₃ -N(15.A), NO ₃ +NO ₂ (91) TP(25)		BOD(3)		TSS(28)			
Address:		3174 E. Van Buren		Purchase Order #:															
Telephone:		(479) 253-7410		Sampler Name(s):		TERRY R LONG													
FAX:		(479) 253-6974		and Signature(s):		Terry R Long													
ESC Client Number:		1505-Effluent		1508-Influent															
Sample Identification				Sample Collection				Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Type	Preservative	#									
1505 Effluent	1906020150	6/27/19	0834	GRAB	Water	whirlpak	300 ml		Na ₂ S ₂ O ₃	1									
1505 Effluent	1906020098	6/26/19	0713	COMPOSITE	Water	plastic	1890 ml		none/ice	1									
1505 Effluent		6/26/19	1024	COMPOSITE	Water	plastic	250 ml		H ₂ SO ₄ , pH <2	1									
			1345																
1508 Influent	1906020099	6/26/19	1027	COMPOSITE	Water	plastic	1000 ml		none/ice	1									
1508 Influent		6/26/19	1130	COMPOSITE	Water	plastic	250 ml		H ₂ SO ₄ , pH <2	1									
			1243																
Relinquished By: (Signature and Printed Name)		Terry R Long		Received By: (Signature and Printed Name)		James Wiltse		Date		6/27/19		Time		1010		Intact?			
Relinquished By: (Signature and Printed Name)		Terry R Long		Received By: (Signature and Printed Name)		James Wiltse		Date		6/27/19		Time		1300		Were samples properly preserved:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Relinquished By: (Signature and Printed Name)		James Wiltse		Received for Lab By: (Signature and Printed Name)		James Wiltse		Date		6/27/19		Time		1300		Result		Result	
Comments:				FLOW DATA				Field Test		Time		Analyst		Result		Units			
				Analyst:				pH:								°C		°F	
				Time:				Temp.:											
				Reading:				DO:											
				Units:				Debris:											
				Chlorinated?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												This Document is Page 1 of 1	