

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY  
MONTHLY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION**

<b>PERMITTEE NAME</b>
City of Cave Springs
<b>PERMITTEE ADDRESS</b>
PO Box 36 Cave Springs, Ar 72718


<b>FACILITY NAME (IF DIFFERENT)</b>
Plant #2
<b>FACILITY ADDRESS</b>
498 Pebble Beach dr

<b>PERMIT NO.</b>
4893-WR-3
<b>AFIN NO.</b>
04-01642

MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM.

<b>WASTEWATER EFFLUENT MONITORING PERIOD</b>	
MM/DD/YYYY	MM/DD/YYYY
FROM 06/01/2017	TO 06/31/2017

TREATED WASTEWATER EFFLUENT SAMPLING						
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) GROSS VALUE	*****	7.0	MG/L	ONCE/MONTH	EFFLUENT GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	_____	2.0	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE	6 to 9	6.6	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	_____	6.2	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	_____	276	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	7.30	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH <sub>3</sub> -N) EFFLUENT GROSS VALUE	*****	4.3	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> -N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE	*****	41.9	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		47.2	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
		2.07	.074			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Billy Tyler Water/Sewer Superintendent	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE
			479	721-7244	07/03/2017
TYPED OR PRINTED			AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

# 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: 1706020079  
 Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2  
 Customer/Permit No. : 2379 / 4893-WR-2 002  
 Report Date : 06/13/17

Sample Date : 06/07/17  
 Sample Time : 1055  
 Sample Type : GRAB  
 Sample From : EFFLUENT DIVERTER BX

Collected By: JCB  
 Delivery By : JCB  
 Work Order :  
 Purchase Order :

### Laboratory Analysis

<u>Analysis</u>							<u>Quality Assurance</u>		
<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>Precision % RPD</u>	<u>Accuracy % Recovery</u>
06/08	0940	AEU	Ammonia Nitrogen	4.3 mg/L			SM 1997 4500-NH3 F	0.00	96.0 *
06/08	0900	TSB	Total Kjeldahl Nitrogen	7.30 mg/L			02/2014 HACH 10242	5.56	82.3 *
06/12	1500	TSB	Nitrate Nitrogen	41.90 mg/L			SM 2000 4500-NO3 E	0.33	99.7 *
06/08	1320	TSB	Nitrite Nitrogen	0.072 mg/L			SM 2000 4500 NO2 B	2.50	100.6 *
06/07	1055	JCB	pH	4.4 S.U.	(b)		SM 2000 4500-H+ B	0.00	N/A *
06/08	1030	TSB	Phosphorous, Total (as P)	7.0 mg/L			EPA 365.3	1.34	101.4 *
06/09	0920	AEU	Solids, Total Suspended	6.2 mg/L			SM 1997 2540 D	4.93	N/A *
06/07	1600	AEU	Coliform, Fecal	276 /100ml			SM 9222 D 1997	0.00	N/A *
06/07	1400	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	7.28	93.0 *
06/08	1150	AEU	Solids, % Total by mass	0.042 %			SM 1997 2540 G	0.00	N/A *
06/13	0950	TSB	Nitrogen, Plant Available	47.2 mg/L			SM 1997 4500-N		
06/07	1055	JCB	Sample Collection/Travel	1 each					

\* QA data shown is from a different sample or standard on the same date.  
 (b) Under Minimum Permit Limits

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 Richard Brown  
 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

Control Number: 1706020352	Sample Date : 06/19/17	Collected By: AEU
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 0938	Delivery By : AEU
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 06/19/17	Sample From : EFFLUENT DIVERTER BX	Purchase Order :

### Laboratory Analysis

<u>Analysis</u>		<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>
<u>Date</u>	<u>Time By</u>	<u>Parameter</u>			
06/19	0939 AEU	pH	6.6 S.U.		SM 2000 4500-H+ B

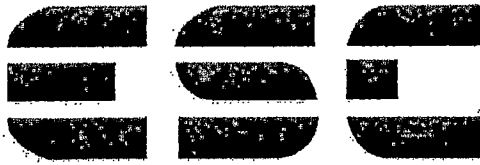
<u>Quality Assurance</u>	
<u>Precision</u>	<u>Accuracy</u>
<u>% RPD</u>	<u>% Recovery</u>
0.00	N/A

\* 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 Richard Brown  
 Environmental Services Co., Inc.

Environmental Services Company, Inc.  
 Northwest Arkansas  
 1107 Century Street  
 Springdale, Arkansas 72762  
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas  
 501-221-2565

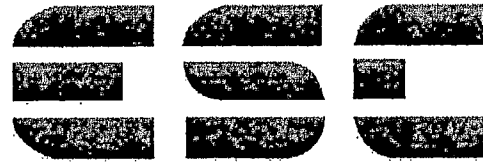
Carlsbad, New Mexico  
 575-887-1ESC

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

## CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters				
Company Name:		Cave Springs Plant 2		Permit/Project #:										
Address:		PO BOX 5		Purchase Order #:										
		Cave Springs 72718		Sampler Name(s):		Amber Underwood								
Telephone:		479 248-1040		and Signature(s):		[Signature]								
FAX:														
ESC Client Number:		2379												
Sample Identification		Sample Collection				Sample Containers				pH(23)				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#					
Effluent Diverter Box	1701020852	6/19/17	0938	Grab	Water	Teflon	150 ml	none	1	X				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:						
[Signature]		6/19/17	11:15	[Signature]				Used?	<input checked="" type="checkbox"/>	Intact?	<input type="checkbox"/>			
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:						
				[Signature]				Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>			
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:						
				[Signature]		6-19-17	11:15	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>			
Comments:				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units		
				Analyst:		pH:		0938	AFU	6.10	6.10			
				Time:		Temp.:		I	I	28.4	28.4	°C °F		
				Reading:		DO:								
				Units:		Debris:								
Cool all samples to 6 degrees C.						Chlorinated?		Yes	No	This Document is Page <u>1</u> of <u>1</u>				

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### CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters								
Company Name:		Cave Springs Plant 2		Permit/Project #:															
Address:		PO BOX 5		Purchase Order #:															
		Cave Springs 72718		Sampler Name(s):		John Byrd													
Telephone:		479 248-1040		and Signature(s):															
FAX:																			
ESC Client Number:		2379																	
Sample Identification		Sample Collection				Sample Containers				pH(23)	Fecal Coliform(43)	CBOD(70), TSS(28), NO2(19)	NH3(15.A), P(25), TKN(16.A), NO3(18)	PAN(99.99), %Solids(82)					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Effluent Diverter Box	1706020079	6/7/17	1055	Grab	Water	Teflon	150 ml	none	1	X									
				Grab	Water	whirlpak	300 ml	none/ice	1		X								
				Grab	Water	Plastic	1 qt	none/ice	1			X		X					
				Grab	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> , pH <2	1				X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:											
John Byrd		6/7/17	1230					Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:											
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:											
						6/7/17	1230	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Comments:		4.4/4.4, 22.8°C/22.8°C				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units					
						Analyst:		pH:		1055	JCB	4.4	4.4						
						Time:		Temp.:		✓	✓	22.8	22.8	°C		°F			
						Reading:		DO:											
						Units:		Debris:											
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page 1 of 1									

**CAVE SPRINGS WATER DEPARTMENT**

**P.O. Box 5**

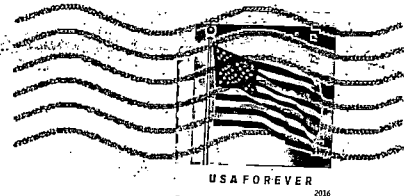
**CAVE SPRINGS, ARKANSAS 72718**

**RETURN SERVICE REQUESTED**

**NORTHWEST AR P&DF**

**AR 727 2 T**

**03 JUL 2017 PM**



**ADEQ**

**Enforcement Section/Water Div.**

**5301 Northshore Drive**

**North Little Rock, AR 72118**

7211885317

