

**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 07/01/2017	TO 07/31/2017

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	EFFLUENT	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) GROSS VALUE		*****	7.7	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE		_____	2.5	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE		6 to 9	7.2	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE		_____	4.2	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE		_____	4	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE		*****	23.60	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH <sub>3</sub> -N) EFFLUENT GROSS VALUE		*****	20.2	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> -N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE		*****	38.2	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE			59.2	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE		*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
			2.22	.099			

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	08/07/2017
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

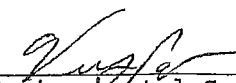
Northwest Arkansas Branch  
 1107 Century Avenue  
 Springdale, AR 72762  
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1707020062	Sample Date : 07/12/17	Collected By: AEU
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1005	Delivery By : AEU
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 07/20/17	Sample From : EFFLUENT DIVERTER BX	Purchase Order :

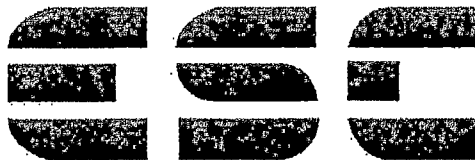
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/13	0800	TSB	Ammonia Nitrogen	20.2 mg/L		SM 1997 4500-NH3 F	0.00	94.0 *
07/18	1000	TSB	Total Kjeldahl Nitrogen	23.60 mg/L		02/2014 HACH 10242	0.00	102.0 *
07/17	1400	TSB	Nitrate Nitrogen	37.10 mg/L		SM 2000 4500-NO3 E	0.57	100.9 *
07/13	0830	TSB	Nitrite Nitrogen	1.100 mg/L		SM 2000 4500 NO2 B	6.57	99.7 *
07/12	1007	AEU	pH	7.2 S.U.		SM 2000 4500-H+ B	0.00	N/A *
07/18	1300	TSB	Phosphorous, Total (as P)	7.7 mg/L		EPA 365.3	0.00	101.9 *
07/17	1600	JCB	Solids, Total Suspended	28.0 mg/L	(b)	SM 1997 2540 D	46.67	N/A *
07/12	1630	JCB	Coliform, Fecal	< 4 /100ml		SM 9222 D 1997	23.03	N/A *
07/12	1400	TSB	BOD, Carbonaceous	2.5 mg/L		SM 2001 5210 B	12.63	96.4 *
07/17	1030	JCB	Solids, % Total by mass	0.058 %		SM 1997 2540 G	3.45	N/A
07/20	1040	TSB	Nitrogen, Plant Available	59.2 mg/L		SM 1997 4500-N		
07/12	1007	AEU	Sample Collection/Travel	1 each				

\* 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.

Signature   
 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 #:							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)								
Address: PO BOX 5				Purchase Order #:																			
Cave Springs 72718				Sampler Name(s): Amber Underwood																			
Telephone: 479 248-1040				and Signature(s): <i>[Signature]</i>																			
FAX:																							
ESC Client Number: 2379																							
Sample Identification		Sample Collection				Sample Containers																	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#														
Effluent Diverter Box	FC070200062	7/12/17	1005	Grab	Water	Teflon	150 ml	none	1	X													
				Grab	Water	whirlpak	300 ml	none/ice	1		X												
	L	L	L	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:			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:			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
Comments:				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units											
				Analyst:		pH:		10057	AELI	7.2	7.2	°F											
				Time:		Temp.:		I	I	25.5	50.6	°C											
				Reading:		DO:																	
				Units:		Debris:																	
Cool all samples to 6 degrees C.							Chlorinated? Yes No			This Document is Page 1 of 1													

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

Control Number: 1707020422	Sample Date : 07/24/17	Collected By: AEU
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1540	Delivery By : AEU
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 07/26/17	Sample From : EFFLUENT DIV BOX	Purchase Order :

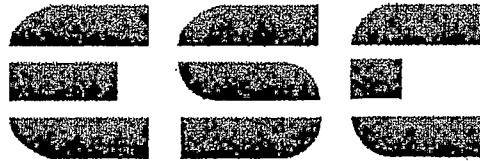
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/25	1122	AEU	Solids, Total Suspended	4.2 mg/L		SM 1997 2540 D	0.00	N/A *
07/24	1540	AEU	Sample Collection/Travel	1 each				

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

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Signature Richard Brown  
 Environmental Services Co., Inc.

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 website: www.esclabs.com



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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):		Amber Underwood							
Telephone:		479 248-1040		and Signature(s):									
FAX:													
ESC Client Number:		2379											
Sample Identification		Sample Collection				Sample Containers				TSS (28)			
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
Effluent Diverter Box	1707030437	7/24/17	1605	Grab	Water	Plastic	1 qt	none/ice	1	X			
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:					
		7/24/17	1605					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:					
						7/24/17	1605	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>				
Comments:				FLOW DATA	Field Test	Time	Analyst	Result	Result	Units			
				Analyst:	pH:								
				Time:	Temp.:				°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

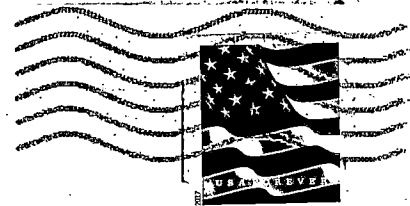
CAVE SPRINGS, ARKANSAS 72718

**RETURN SERVICE REQUESTED**

NORTHWEST AR P&DF

AR 727 2 T

08 AUG 2017 PM



ADEQ

Enforcement Section/Water Div.

5301 Northshore Drive

North Little Rock, AR 72118

7211885317

