

**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

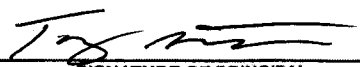
<b>FACILITY NAME (IF DIFFERENT)</b> Plant # 2
<b>FACILITY ADDRESS</b> 498 Pebble Beach Dr.

<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.

WASTEWATER EFFLUENT MONITORING PERIOD	
FROM MM/DD/YYYY 02/01/2017	TO MM/DD/YYYY 02/28/2017

TREATED WASTEWATER EFFLUENT SAMPLING						
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	6.3	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	_____	13.2	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE	6 to 9	6.7	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	_____	13.0	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	_____	9900	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	16.80	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH <sub>3</sub> N) EFFLUENT GROSS VALUE	*****	10.6	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE	*****	43.2	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		55.7	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
		1.85	.072			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Tony Merworth 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	295-3013	03/02/2017
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: 1702020016	Sample Date : 02/01/17	Collected By: AEU
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1101	Delivery By : AEU
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 02/07/17	Sample From : EFF DIVERTER BOX	Purchase Order :

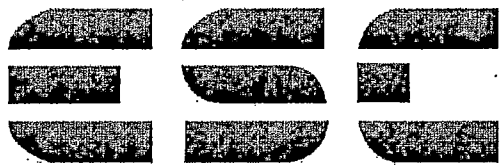
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
02/02	0930	TSB	Ammonia Nitrogen	10.6 mg/L		SM 1997 4500-NH3 F	1.53	102.0
02/02	0810	TSB	Kjeldahl Nitrogen Total	16.80 mg/L		SM 1997 4500-NorgB	0.00	100.2 *
02/02	0930	JCB	Nitrate Nitrogen	41.89 mg/L		SM 2000 4500-NO3 E	0.98	97.3 *
02/02	1205	TSB	Nitrite Nitrogen	1.310 mg/L		SM 2000 4500 NO2 B	6.06	100.7
02/01	1108	AEU	pH	6.7 S.U.		SM 2000 4500-H+ B	0.00	N/A *
02/02	0845	TSB	Phosphorous, Total (as P)	6.3 mg/L		EPA 365.3	0.00	101.0 *
02/06	1249	AEU	Solids, Total Suspended	13.0 mg/L		SM 1997 2540 D	0.00	N/A *
02/01	1400	TSB	Coliform, Fecal	9900 /100ml		SM 9222 D 1997	90.91	N/A *
02/01	1400	TSB	BOD, Carbonaceous	13.2 mg/L		SM 2001 5210 B	27.42	109.1 *
02/02	1200	JCB	Solids, % Total by mass	0.046 %		SM 1997 2540 G	2.20	N/A
02/03	0810	TSB	Nitrogen, Plant Available	55.7 mg/L		SM 1997 4500-N		
02/01	1108	AEU	Sample Collection/Travel	1 each				

\* 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 #:						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):												
FAX:																
ESC Client Number: 2379																
Sample Identification		Sample Collection				Sample Containers										
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	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)		
Effluent Diverter Box	1702020016	8/1/17	1101	Grab	Water	Teflon	150 ml	none	1	x						
	I	I	I	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:						
		8/1/17	1210							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:						
								8/1/17	1210	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>			
Comments:						FLOW DATA	Field Test	Time	Analyst	Result	Result	Units				
						Analyst:	pH:	1108	AEL	6.7	6.7					
						Time:	Temp.:	1108	AEL	13.6	13.5	°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**

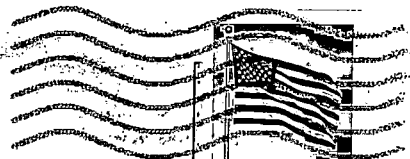
**CAVE SPRINGS, ARKANSAS 72718**

**RETURN SERVICE REQUESTED**

**NORTHWEST AR P&DF**

**AR 727 2 T**

**02 MAR 2017 PM**



**ADEQ**

**Enforcement Section/Water Div.**

**5301 Northshore Drive**

**North Little Rock, AR 72118**

7211835317

