

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

PERMITTEE NAME City of Cave Springs
PERMITTEE ADDRESS P.O. Box 36 Cave Springs AR 72718

FACILITY NAME (IF DIFFERENT) Plant # 2
FACILITY ADDRESS 498 Pebble Beach

PERMIT NO. 4893-WR-2
AFIN NO. 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 08/01/2016	TO MM/DD/YYYY 08/31/2016

TREATED WASTEWATER EFFLUENT SAMPLING						
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	8.7	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	---	5.4	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE	6 to 9	6.4	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	---	16.0	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	---	3400	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	22.40	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH ₃ N) EFFLUENT GROSS VALUE	*****	17.5	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO ₃ N + NO ₂ -N) EFFLUENT GROSS VALUE	*****	40.67	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		59.6	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	MGD	ONCE/MONTH	TOTAL FLOW	
		DAILY MAX				
		1.61				
						.06

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	09/01/2016
AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)
Maintenance on clarifier and D box should resolve TSS issues.

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: 1608020043	Sample Date : 08/03/16	Collected By: AEU
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1225	Delivery By : AEU
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 08/09/16	Sample From : EFFLUENTDIVERTER BOX	Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/05	1000	TSB	Ammonia Nitrogen	17.5 mg/L			SM 1997 4500-NH3 F	8.70	101.0 *
08/08	0900	TSB	Kjeldahl Nitrogen Total	22.40 mg/L			SM 1997 4500-NorgB	2.41	99.2 *
08/05	0830	TSB	Nitrate Nitrogen	40.10 mg/L			SM 2000 4500-NO3 E	0.96	103.0 *
08/05	0945	RHB	Nitrite Nitrogen	0.570 mg/L			SM 2000 4500 NO2 B	1.09	100.4
08/03	1230	AEU	pH	6.4 S.U.			SM 2000 4500-H+ B	0.00	N/A *
08/04	1020	JCB	Phosphorous, Total (as P)	8.7 mg/L			EPA 365.3	0.00	97.1 *
08/08	0900	JCB	Solids, Total Suspended	16.0 mg/L	(b)		SM 1997 2540 D	0.00	N/A *
08/03	1530	JCB	Coliform, Fecal	3400 /100mL			SM 9222 D 1997	0.00	N/A *
08/03	1400	TSB	BOD, Carbonaceous	5.4 mg/L			SM 2001 5210 B	2.41	101.2 *
08/08	1000	JCB	Solids, % Total by mass	0.046 %			SM 1997 2540 G	6.59	N/A
08/09	0945	TSB	Nitrogen, Plant Available	59.6 mg/L			SM 1997 4500-N		

* 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 Richard Brown
 Environmental Services Co., Inc.

CAVE SPRINGS WATER DEPARTMENT

P.O. Box 5

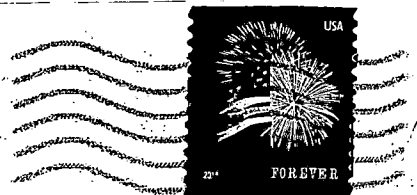
CAVE SPRINGS, ARKANSAS 72718

RETURN SERVICE REQUESTED

NORTHWEST AR P&DF

AR 727 1 T

05 SEP 2016 PM



ADEQ

Enforcement Section/Water Div.

5301 Northshore Drive

North Little Rock, AR 72118

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