

**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> P.O. Box 34, Cave Springs, AR 72718

<b>FACILITY NAME (IF DIFFERENT)</b> Plant #1
<b>FACILITY ADDRESS</b> 1499 1/2 S. Main

<b>PERMIT NO.</b> 4893-WL-2
<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	
MM/DD/YYYY	MM/DD/YYYY
FROM 11-01-2013	TO 11-30-2013

TREATED WASTEWATER EFFLUENT SAMPLING							
PARAMETER		PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) GROSS VALUE	EFFLUENT	*****	5.6	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE		---	2.0	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE		6 to 9	6.4	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE		---	2.0	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE		---	214	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE		*****	7.80	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH <sub>3</sub> -N) EFFLUENT GROSS VALUE		*****	5.8	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> -N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE		*****	31.164	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE			37.3	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE		*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
			0.54	0.020			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Rick A. Sayre Water/B 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 <i>Rick A. Sayre</i>	TELEPHONE		DATE
			479	721-7539	12-02-2013
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: 1311020050

Sample Date : 11/06/13

Collected By: KLK

Customer Name : CAVE SPRINGS, CITY OF

Sample Time : 1235

Delivery By : KLK

Customer/Permit No. : 1826 / 4893-WR-2

Sample Type : GRAB

Work Order :

Report Date : 11/15/13

Sample From : EFFLUENT DOSE TANK

Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
11/11	1415	TSB	Ammonia Nitrogen	5.8 mg/L			SM 18th 4500-NH3 H	5.99	85.0 *
11/13	0945	TSB	Kjeldahl Nitrogen Total	7.80 mg/L			SM 18th 4500-NorgB	1.97	103.0 *
11/07	1030	TSB	Nitrate Nitrogen	30.86 mg/L			SM 18th 4500-NO3 E	4.26	96.3 *
11/07	0900	MNM	Nitrite Nitrogen	0.304 mg/L			SM 18th 4500 NO2 B	0.00	89.0
11/06	1235	KIK	pH	6.4 S.U.			SM 18th 4500-H+ B	0.00	N/A *
11/12	1515	TSB	Phosphorous, Total (as P)	5.6 mg/L			EPA 365.3	2.35	105.0 *
11/07	0900	TSB	Solids, Total Suspended	< 2.0 mg/L			SM 18th 2540D	0.00	N/A *
11/06	1415	MNM	Coliform, Fecal	214 /100ml			SM 18th 9222D	3.74	N/A
11/06	1400	TSB	BOD, Carbonaceous	2.0 mg/L			SM 18th 5210B	0.00	102.0 *
11/12	1420	KIK	Solids, % Total	0.204 %			SM 18th 2540G	20.15	N/A
11/15	1300	TSB	Nitrogen, Plant Available	37.3 mg/L			SM 18th 4500-NH3E		

\* 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.

CAVE SPRINGS WATER DEPARTMENT

P.O. Box 5

CAVE SPRINGS, ARKANSAS 72718

NORTHWEST AR P&DF

AR 727 1 L

02 DEC 2013 PM



ADEQ

Enforcement Section/Water Div.

5301 Northshore Dr.

North Little Rock, AR 72118

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