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

MONTHLY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION										
City of Caus Springs	FACILITY		PERMIT NO.							
PERMITTEE ADDRESS	Plant		4893-WR-2							
P.O. Box 36	FACILITY ADDRESS			AFIN NO. 04 - 01642						
Cave Springs, AR, 72718	498 Pebble Beach			07-01698						
MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS	MM/DD/YYYY	EFFLUENT MONITORING PERIOD								
	12/01/2015	TO 12/3/18015								
TREATED WASTEWATER EFFLUENT SAMPLING										
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF	SAMPLE TYPE					
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	4.9	MG/L	ANALYSIS ONCE/ MONTH	GRAB					
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE		5.0	MG/L	ONCE/ MONTH	GRAB					
PH EFFLUENT GROSS VALUE	6 to 9	6.5	S.U.	ONCE/ MONTH	GRAB					
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	-	16.0	MG/L	ONCE/ MONTH	GRAB					
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE		2500	N/100 ML	ONCE/ MONTH	GRAB					
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	13.40	MG/L	ONCE/ MONTH	GRAB					
NITROGEN, AMMONIA TOTAL (AS NH₃N) EFFLUENT GROSS VALUE	****	3.2	MG/L	ONCE/ MONTH	GRAB					
NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE	****	32.79	MG/L	ONCE/ MONTH	GRAB					
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		39.1	MG/L	ONCE/ MONTH	GRAB					
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	****	MONTHLY TOTAL DAILY MAX	MGD	ONCE/ MONTH	TOTAL FLOW					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I	HAVE PERSONALLY EXAMINED AN	D AM WITH THE	L	TELEPHONE	DATE					
INFORMATION SUBMITTED HEREIN; AND E	BASED ON MY INQUIRY OF THOS	SE INDIVIDUALS								
INFORMATION IS TRUE, ACCURATE, AND COM-	MPLETE. I AM AWARE THAT THERE A	ARE SIGNIFICANT SIGNATURE OF		479 295-3013	01/04/2016					
				AREA CODE NUMBER	MM/DD/YYYY					
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all atta 3) udge pumping time to help reduce	achments here) Violatio	on for exceeding	TSS limit.	we have i	ncreased the					
Taken on a lot of T/I diging our last rain event on										
14 40 - 12/148 1 MANCALY	90,000 gail perda	y, we treated 418	500 perday	during this	rain event,					
ADEQ Form	1. Cagastity. NO	o overflows just	exceeded	capacity.						

Revised December 13, 2005

#### 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

#### CHAIN OF CUSTODY

Phone: 479-750-1170	Fax: 479-750-1172		CH	HAIN C	OF CU	STO	DY											
Client Information				Project Information				Requested Parameters										
Company Name:	Cave Springs	Plant 2		Permit/Pro	ject #:									[				
Address:	PO BOX 5			Purchase	-						1			NH3(15.A), P(25),TKN(16.A), NO3(18)				ĺ
	Cave Springs	72718		1		$\overline{0}$	1	<u></u>	. i		1		19	S				ĺ
Telephone:	479 248-1040			Sampler Name(s):		// las sant				l		02(	6.A)	s(8,				
FAX:		· · · · · · · · · · · · · · · · · · ·					MINGE SHITSHIT				1	<u>@</u>	(%)	S Z	olid			l
				and Signal	nd Signature(s):		16-			ł	E A	8(2)	Ę,	%S(			l	
ESC Client Number:	2379			and Signal	iure(s).						ł	Coliform(43)	CBOD(70),TSS(28),NO2(19)	P(2	PAN(99.99), %Solids(82)			l
Sample Ide		T	Sample	Collection		0			۱	ပိ	(20)	(A.2	9.6					
Identification	ESC Control #	D-4-		e Collection			Sample Containers			pH(23)	Fecal (	lg	13(1	ž	İ		ĺ	
		Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	효	╙	ਠ	ż	/ <sub>d</sub>			
Effluent Diverter Box	1512020021	12-1-15	11:50	Grab	Water	Teflon	150 ml	none		1	х	L						
<del>  </del>	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	Grab	Water	whirlpak	300 ml	none/ice		1_	<u></u>	х						
	<del>                                     </del>			Grab	Water	Plastic	1 qt	none/ice		1	L		x		х			
				Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2	1				х				
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															$\dashv$	ᅥ		
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Relinquished By: (Signature/and Print		12-1-15	12:20	Received By: (Sig	nature and Printed	Name)	<del></del>	Date	Tin			dy Se	als:	$\mathcal{P}$	$\leq 1$			$\dashv$
Relinquished By: (Signature and Printe		Date	12-40 Time	Received By: (Sig	nature and Printed	Name)		Date	Tim		Used	7 around		L	Intac	17		
		,						Date	1 1111		Regu		0		Spec	ial		
Relinquished By: (Signature and Print	ed Name)	Date	Time	Received for Lab f	By: (Signature and	Printed Name	)	Date	Tim	10	Were	samp	les pr	operly	prese	ved:	_	
Comments:			Received for Lab By: (Signature and Printed Name)    FLOW DATA   Field		Field Test	<i>j2- - 5</i> Time			Resi	Yes /suit Result		.14	No Units					
					Analyst:		pH:		ÛŹ		6.		1 1030			Jinta		-
					Time: Temp.: 11/50 (2)05 14				<b>©</b> °F									
					Reading: Units:		DO: Debris:	<del></del>										-
Cool all samples to 6 degrees C.					<b></b>		Chlorinated	? Yes No	 0	$\dashv$	This	Doc	ume	nt is	Page	, (	of	$\dashv$

### 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: 1512020021

Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2

Customer/Permit No. : 2379 / 4893-WR-2 002

Report Date : 12/09/15

Sample Date : 12/01/15 Sample Time : 1150

Sample Type : GRAB

Sample From : EFFLUENT DIVERTER BX

Collected By: WDS Delivery By : WDS

Work Order : Purchase Order :

Analysis		<u>Laboratory Analysis</u>		Quality A	Assurance
Date Time By	Parameter	Result Notes Ou	antity Method	Precision	Accuracy
12/02 0900 TSB	Ammonia Nitrogen	3.2 mg/L		_ % RPD	<pre>% Recovery</pre>
12/08 0830 TSB	Kjeldahl Nitrogen Total	13.40 mg/L	SM 1997 4500-NH3 F		103.9 *
12/07 1300 TSB	Nitrate Nitrogen		SM 1997 4500-NorgB		101.5 *
		32.40 mg/L	SM 2000 4500-NO3 E		101.2 *
12/01 1150 WDS		0.390 mg/L	SM 2000 4500 NO2 B	0.00	100.0
12/07 1000 TSB		6.5 S.U.	SM 2000 4500-H+ B	0.00	N/A *
		4.9 mg/L	EPA 365.3	0.00	100.0 *
		16.0 mg/L (b)	SM 1997 2540 D	0.00	N/A *
	BOD, Carbonaceous	2500 /100ml	SM 1997 9222 D	0.00	N/A *
12/04 0920 TSB	Solids, % Total by mass	5.0 mg/L	SM 2001 5210 B	25.51	101.9 *
	Nitrogen, Plant Available	0.042 %	SM 1997 2540 G	9.52	N/A
, <u></u>	Microgen, Franc Avariable	39.1  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 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 RETURN SERVICE REQUESTED

NW ARKANSAS AR 727 OS 3438-2016 PM2 1



ADEQ Enforcement Section/Water Div. 5301 Northshore Drive North Little Rock, AR 72118