ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION NO DISCHARGE MONTHLY MONITORING REPORT

MM/DD/YYYY

PERMITTEE NAME
CITY OF CAVE SPRINGS
PERMITTEE ADDRESS
PO Box 5
Cave Springs AR 72718

	FACILITY NAME
CAVE	SPRINGS WASTEWATER TREATMENT PLANT
	FACILITY ADDRESS
	The Creeks Golf Course
	1499 S Main St Cave Springs AR 72718

MONITORING PERIOD

то

MM/DD/YYYY

PERMIT NO.	
4893-WR-3	
AFIN NO.	
04-01642	
	4893-WR-3 AFIN NO.

	12/1/2019		12/31/2019					
	EFFLUENT LIMITS, MONITORING,	AND REPORTING F	REQUIREMENT	S				
PARAMETER	PERMIT LIMIT	SAMPLE MEA	SUREMENT	UNITS	FREQUENCY OF	SAMPLE TYPE		
		Plant 1	Plant 1 Plant 2		ANALYSIS			
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD5)	30	2.9	8.6	MG/L				
TOTAL SUSPENDED SOLIDS (TSS)	45	4.1	20.8	MG/L				
FECAL COLIFORM BACTERIA (FCB)	10,000	224.4	114 COLONIES/100		Once per Month / Grab			
pH	6.0 - 9.0	6	7	s.u	1			
TOTAL PHOSPHOROUS (TP)	Report	6.69	6.83	MG/L				
TOTAL KJELDAHL NITROGEN (TKN)	Report			MG/L				
NITROGEN AMMONIA NITROGEN (NH 3 - N)	Report			MG/L	Ones and Overder (One)			
NITRITE NITROGEN (NO 3 - N) + NITRATE NITROGEN (NO 2 - N) Report			MG/L	Once per Quarter / Grab			
PLANT AVAILABLE NITROGEN (PAN)	Report			MG/L				
TOTAL FLOW		MONTHLY TOTAL	DAILY MAX	GPD				
		2,770,789	0.171522	GPD				
		AW THAT I HAVE PERSONALLY EXAMINED AND AM			TELEPHONE	DATE		
THOSE INDIVIDUALS INFORMATION, I BELIEV	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							
	ARE THAT THERE ARE SIGNIFICANT PE		SIGNATURE OF					
TYPED OR PRINTED SUBMITTING FALSE IN IMPRISONMENT.	FORMATION, INCLUDING THE POSSIBILITY	OF FINE AND	EXECUTIVE OF AUTHORIZE		AREA NUMBER	MM/DD/YYYY		

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here) REPAIRED 2 SUPPLY BREAKS AND ONE ELECTRONIC ZONE VALVE IN DRIP FIELD

TABLE II DRIP ZONES LOADING RATE LIMITS, MONITORING AND REPORTING REQUIREMENTS DAILY MAXIMUM FLOW TOTAL 171,522 Dec-19 Zone ID Limit Units **Maximum Volume Limit** Units Monitoring Reported Maximum Leach Field 1 0.55 26,000 12350 Zone 1 0.42 19,524 Zone 2 0.45 19,309 zones not being used Zone 3 0.4 16,424 Zone 4 0.46 10,811 Zone 5 0.2 13,059 6347 Zone 6 0.2 7,723 3774 Zone 7 0.2 10,910 5146 Zone 8 0.3 7,081 3431 Zone 9 18,291 0.4 8748 Zone 10 0.3 9,450 4460 Zone 11 0.2 4,110 2059 Zone 12 0.4 7,522 3602 Zone 13 0.25 5,717 2745 Zone 14 0.15 6,097 2916 Zone 15 0.2 gpd/ft2 8,378 Daily gpd 4117 Zone 16 0.4 9,427 4460 Zone 17 0.23 3,694 1716 Zone 19 0.35 13,778 6518 Zone 20 0.2 5,766 2745 Zone 21 0.4 17,040 8234 Zone 22 0.5 28,113 13379 Zone 23 0.25 15,640 7376 Zone 24 0.25 9,547 4632 Zone 25 0.2 4,436 2059 Zone 26 0.3 9,334 4460 Zone 27 0.31 16,511 7891

6175

1887

4803

2745

13,018

3,923

10,116

5,714

Zone 28

Zone 29

Zone 30

Zone 31

0.31

0.2

0.55

0.3

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: 1912020016

Customer Name : CAVE SPRINGS UTILITY, PLANT 1

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

Report Date : 12/11/19

Sample Date : 12/04/19

Sample Time : 1445

Sample Type : GRAB

Sample From : EFFLUENT DOSE TANK

Collected By: JEW

Delivery By : JEW Work Order :

Purchase Order :

Analvsis		Laboratory Analysis			Quality A	
4					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	Quantity	Method	% RPD	% Recovery
12/04 1445 JEW		6.0 S.U.		SM 2011 4500-H+ B	0.00	N/A *
12/06 1130 TM	Phosphorous, Total (as P)	6.69 mg/L		EPA 365.3	1.23	115.0 *
12/09 1030 TSB	Solids, Total Suspended	4.1 mg/L		SM 2011 2540 D	2.90	N/A *
	Fecal Coliform (MPN/100mL	224.4 /100ml		06/2012 Colilert18	0.00	0.0 *
12/05 1300 TM	BOD, Carbonaceous	2.9 mg/L		SM 2001 5210 B	21.54	79.3

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

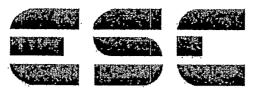
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of 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.

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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

		1 dx. 419-100-1112		<u> </u>	17 1111	<i>7</i> 1											
Client Information				Project Information						Requested Parameters							
Company Nan	ne:	Cave Springs	Plant 1		Permit/Pro	oject #:											
Address:		PO BOX 5			Purchase	Order #:											
		Cave Springs	72718	· · · · · · · · · · · · · · · · · · ·	1								<u>ا</u>				1
Telephone:		479 248-1040			Sampler N	Vame(s):	1	12:H-	Tansel	1):14		3.	(28)				
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ESC Client Nu	mber:	1826	"		Jana Olgita	iture(a).		 				1	[2]	ph	1 1		
	nple Iden		T	Sample	Collection	· · · · · · · · · · · · · · · · · · ·	γ	Sample (Container			Fecal Coliform (43.IF)	CBOD (70), TSS	Phosphorus			
Identifica		ESC Control #	Date	Time	T	Matrix			T		—		8				
Effluent/Dos		1912020016		1445	Туре	 	Туре	Volume	 			_	10	7-		 	
Linuellippos	CIAIN	1912020010	12-4-19	17775	Grab	Water	Glass	250 ml	None		0 X		 			-	
	·		 }	 	Grab	Water	Sterile	100 ml	Na ₂ S ₂ O ₃ /		1	X	├—			↓	
· <u>-</u>					Grab	Water	Plastic	1/2 gal	None/C		1	╄	X			4	
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Relinquished By: (Signal	1 James	s Diltse	12-4-19	1650	Received By: (Si	gnature and Printe	d Name)		Date	Time	Cus	tody Se	eals:	1	Intact?		
telinquished By: (Signat	ure and Printed	Name)	Date	Time	Received By: (Si	gnature and Printe	d Name)		Date	Time		around	LL. H.				
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						Reading:		DO:		7-(12-		•.T		φ	<u>~</u>		
···						Units:		Debris:									
		Cool all samples to 6 de	grees C.			 		Chlorinated	? Yes N	lo	Thi	s Do	cume	nt is	Page _/	_of <u> </u>	

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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: 1912020017 Customer Name : CAVE SPRINGS UTILITY, PLANT 2

Customer/Permit No.: 2379 / 4893-WR-3 002

Report Date : 12/13/19

Sample Date : 12/04/19

Sample Time : 1420 Sample Type : GRAB

Sample From : EFFLUENT DIVERTER BX

Collected By: JEW Delivery By : JEW

Work Order: Purchase Order:

Analvsis		<u>Laboratory Analysis</u>		Quality A	
Date Time By	Parameter	Danish William		Precision	Accuracy
			tity Method	_ % RPD	<pre>% Recovery</pre>
12/04 1420 JEW	pн	7.0 S.U.	SM 2011 4500-H+ B	0.00	N/A *
	Phosphorous, Total (as P)	6.83 mg/L	EPA 365.3	1.23	115.0 *
	•	20.8 mg/L	SM 2011 2540 D	2.90	N/A *
12/04 1705 TSB		114.0 /100ml	06/2012 Colilert18	0.00	0.0 *
12/05 1300 TM	BOD, Carbonaceous	8.6 mg/L	SM 2001 5210 B	21.54	79.3 *

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	Tnc	

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

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> Carlsbad, New Mexico 575-887-1ESC

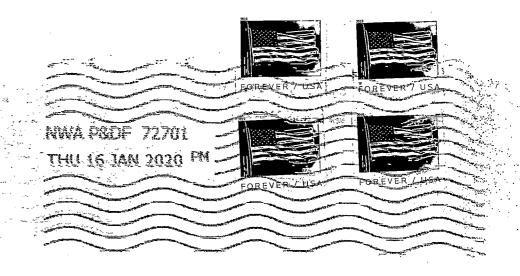
CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters							3		
Company Name:		Cave Springs	Plant 2		Permit/Pro	•	·												
Address:		PO BOX 5			Purchase	Order#:													
		Cave Springs	72718		.]		1	- 11/11 -		. 7.4	,								
Telephone:		479 248-1040	· · · · · · · · · · · · · · · · · · ·		Sampler N	lame(s):	James	With	Tomes L	١١ . (ر	15 C		<u> = </u>						
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<u>.</u>					and Signa	ture(s):							ori,	SS					
ESC Client Number	er:	2379											등	()	(22)				
Sample	Identi	fication		Sample	Collection			Sample (Containers	3		23)	Fecal Coliform(43.IF)	CBOD(70),TSS(28)	교				
Identification		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	pH(23)	Fec	8	Total				
Effluent Diverter	Вох	1912020017	12-4-19	1420	Grab	Water	Teflon	150 ml	none		1	х							
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Comments:				TARAM W VVV J	FLOW DA		Field Test		Analy						Units				
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						Time: Reading:		Temp.: DO:	1420	450	2	15)	4	15.	7	(C)		°F	
						Units:		Debris:		 									
	Cool all samples to 6 degrees C.							Chlorinated	? Yes N	lo		This	Doc	ume	ent is	Pag	e Z	of _/	

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NWA UTILITY SERVICES, INC

PO Box 9299 Fayetteville, AR 72703



ADEQ Water DIVISION / Permits Branch 5301 Northshore Dr N. LIttle Rock, AR 72118