ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION NO DISCHARGE MONTHLY MONITORING REPORT

	PERMITTEE NAME	
	CITY OF CAVE SPRINGS	
**************************************	PERMITTEE ADDRESS	1. 71,67
	PO Box 5	
	Cave Springs AR 72718	

	FACILITY NAME
CAVE SPRI	NGS WASTEWATER TREATMENT PLANT
The second second	FACILITY ADDRESS
	The Creeks Golf Course
140	S Main St Cave Springs AP 72718

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

TO TO	MM/DD/YYYY
	10/31/2020
	NITORING PER

	EFFLI	UENT LIMITS, MONITORING, A			 	FREQUENCY OF				
PARAMETE	ir e	PERMIT LIMIT	SAMPLE MEAS	Plant 2	UNITS	ANALYSIS	SAMPLE TYPE			
CARBONACEOUS BIOCHEMICAL OXYG	EN DEMAND (CBOD5)	30	< 2.0	< 2.0	MG/L					
TOTAL SUSPENDED SOLIDS (TSS)		45	4.4	2.8	MG/L					
FECAL COLIFORM BACTERIA (FCB)		10,000	7.5	8.6	COLONIES/100ml	Once per Mo	nth / Grab			
pH	6.0 - 9.0	6.4	6.3	s.u						
TOTAL PHOSPHOROUS (TP)		Report	8.69	8.09	MG/L					
TOTAL KJELDAHL NITROGEN (TKN)		Report	43.30	47.50	MG/L					
NITROGEN AMMONIA NITROGEN (NH 3	- N)	Report	5.37	6.35	MG/L	Once per Quarter / Grab				
NITRITE NITROGEN (NO 3 - N) + NITRAT	E NITROGEN (NO 2 - N)	Report	36.5	40.9	MG/L					
PLANT AVAILABLE NITROGEN (PAN)		Report	53.2	59.6	MG/L					
TOTAL ELOW			MONTHLY TOTAL DAILY MAX 4,951,123 159,714		GPD					
TOTAL FLOW					GPD .					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		AW THAT I HAVE PERSONALLY EXAM		- 0 14	1	TELEPHONE	DATE			
	THOSE INDIVIDUALS IMMEDIA	ITTED HEREIN; AND BASED ON MY ATELY RESPONSIBLE FOR OBT IBMITTED INFORMATION IS TRUE, AC	AINING THE	MUS	100	479 530-5926	11/12/2020			
Kathy Bartlett		AT THERE ARE SIGNIFICANT PE		SIGNATURE OF	PRINCIPAL					
TYPED OR PRINTED	SUBMITTING FALSE INFORMATION INPRISONMENT.	ON, INCLUDING THE POSSIBILITY (OF, FINE AND	EXECUTIVE O		AREA NUMBER	MM/DD/YYYY			
COMMENTS AND EXPLANATION OF	VIOLATIONS (Reference all	attachments here)								

			TABLE I	1				
	DRIP ZO	ONES LOAD	ING RATE LIMITS, MONITOR	ING AND	REPORTING	REQUIREMENTS		
				DAILY	MAXIMUM FLOW TOTAL	159,714		
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum		
Leach Field 1	0.55		26,000			6026		
Zone 1	0.42] [19,524] [
Zone 2	0.45] [19,309		1 1	zones not being used	i	
Zone 3	0.4] [16,424		1	zones not being used		
Z опе 4	0.46	7 F	10,811					
Zone 5	0.2] [13,059			7986		
Zone 6	0.2] [7,723			4632		
Zone 7	0.2	3 [10,910			6389		
Zone 8	0.3	1 Г	7,081	7		4313		
Zone 9	0.4	1 F	18,291]		12193		
Zone 10	0.3	1 [9,450	1		6792		
Zone 11	0.2	7 F	4,110	7		2236		
Zone 12	0.4	1 Г	7,522	7		3354		
Zone 13	0.25	1 [5,717	1 [2556			
Zone 14	0.15] [6,097			3035		
Zone 15	0.2	gpd/ft2	8,378	gpd	Daily	4632		
Zone 16	0.4	1 [9,427		1 [4792		
Zone 17	0.23	7 [3,694]		1598		
Zone 19	0.35	1 [13,778	7		7667		
Zone 20	0.2	7 [5,766]] [2556		
Zone 21	0.4] [17,040]		9583		
Zone 22	0.5] [28,113]	1	20658		
Zone 23	0.25		15,640		[8465		
Zone 24	0.25] [9,547]] [4792		
Zone 25	0.2] [4,436]] [2716		
Zone 26	0.3] [9,334] .	[4632		
Zone 27	0.31] [16,511]	} [9583		
Zone 28	0.31] [13,018]] [7826		
Zone 29	0.2	7 [3,923	3]	1757		
Zone 30	0.55] [10,116]	} [6389		
Zone 31	0.3		5,714			2556		

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: 2010020012

Customer Name : CAVE SPRINGS UTILITY, PLANT 1

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

Report Date : 10/14/20

Sample Date : 10/07/20

Sample Time : 1124

Sample Type : GRAB

Sample From : EFFLUENT/DOSE TANK

Delivery By : NTR Work Order :

Purchase Order :

Collected By: NTR

	Laboratory Analysis										
Analysis				Precision	Accuracy						
Date Time By	Parameter	Result Notes Quantity	<u> Method</u>	% RPD	% Recovery						
10/07 1605 TWM	Ammonia as N, (HACH 10205)	5.37 mg/L	SM 2011 4500-NH3 F	3.64	100.0 *						
10/07 1515 TWM	Total Kjeldahl Nitrogen	43.3 mg/L	02/2014 HACH 10242	0.96	97.4 *						
10/07 1125 NTR	На	6.4 S.U.	SM 2011 4500-H+ B	0.00	N/A						
10/12 1325 TWM	Phosphorous, Total (as P)	8.69 mg/L	EPA 365.3	0.00	103.0 *						
— - •	Solids, Total Suspended	4.4 mg/L	SM 2011 2540 D	0.00	N/A *						
10/07 1655 TWM	Fecal Coliform (MPN/100mL	7.5 /100ml	06/2012 Colilert18	0.00	N/A						
10/08 0730 TWM	BOD, Carbonaceous	< 2.0 mg/L	SM 2001 5210 B	0.00	85.0 *						
10/09 0750 NTR	Nitrate + Nitrite	36.50 mg/L	01/2013 HACH 10206	0.80	101.8 *						
10/13 1650 TWM	Nitrogen, Plant Available	53.2 mg/L	SM 1997 4500-N								

* 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

KNW

Environmental Services Company, Inc. Corporate Office

13715 West Markham

P.O. Box 55146

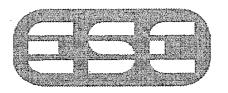
Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

Phone: 501-221-2565

Fax: 501-221-1341



Environmental Services Company, Inc. Northwest Branch 1107 Century Springdale, AR 72764

CHAIN OF CUSTODY

Phone 479-750-1170 Fax::479-750-1172

Client Information						Project Information							Req	ues	ted	Par	ame	eters	3
Company Name	e:	Cave Springs			Permit/Pro	ject#:	Quateri	у								(66			
Address: _		PO BOX 5			Purchase Order #:										(16A),	PAN (99.99)			
		Cave Springs	72718			•									19	Z			
Telephone:		479 248-1040			Sampler N	ame(s):	٨	led R.	1015on			E)	(28)		s-TKN				
FAX:	·····		· · · · · · · · · · · · · · · · · · ·			• •						(43) S	(22)	ŀ-S	3,			
					and Signat	1129 6	7	-		ım	TS	Sn.	3	Z		ŀ			
ESC Client Number: 1826					jana olgila.		-	0 - 00	~~ ~			Coliform (43.IF)	70)	<u>ا</u> ق	(15.A),	05-			
				Collection		<u> </u>	Sample (Containers			Č) Q(Soc	Z-	Ž	(23)			
Identificat		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	1		#	Fecal	CBOD (70), TSS	T-Phosphorus	NH3-N	NO3+NO2-N (91),) Hd		
Effluent/Dose		2610020012	10-7-20	1124	Grab	Water	Sterile	120 mL.	Ia ₂ S ₂ O ₃ /Coo	ol	1	×							
Effluent/Dose		1	1	1	Grab	Water	Plastic	1/2 gal	None/Cool	_	1		х						
Effluent/Dose					Grab	Water	Plastic	8 oz	H ₂ SO ₄ , ph		1			х	x	х			
		 			 			250 mi		None/Cool		-			<u> </u>	-	X		
Effluent/Dose	erank	 	<u> </u>		Grab	Water	Glass	250 Mi	None/Co	00i	0			\vdash	-		_		
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Relinquished By: (Signate	ure and Printed	I Name)	Date	Time	Received By: (Sig	nature and Printed	Name)		Date	Tim	ne		round		! :	<u>-</u>			<u> </u>
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Comments:)	Ú				FLOW DA	ATA	Field Test	Time	Analy		Resu	_	Resi			Units	3	
	·		·			Analyst: Time:		pH: Temp.:	1123	NT	*	ارج	<u>+</u> _	6,	$\underline{\psi}$	·c S	ζĽ	°F	
		 		2		Reading:		DO:		 	_								
			· ·			Units:		Debris:			· · ·								
		Cool all samples to 6 de	egrees C.					Chlorinated	l? Yes N	o		This	Doc	ume	nt is	Pag	e 🛴	of <u>/</u>	

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: 2010020013

Customer Name : CAVE SPRINGS UTILITY, PLANT 2

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

Report Date : 10/14/20

Sample Date : 10/07/20

Sample Time: 1149

Sample Type : GRAB

Sample From : EFFLUENT/DIVERTER

Collected By: NTR

Delivery By : NTR

Work Order : Purchase Order :

		Laboratory Analysis		Quality A	Assurance
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes Ou	antity Method	% RPD	<pre>% Recovery</pre>
	Ammonia as N, (HACH 10205)	6.35 mg/L	SM 2011 4500-NH3 F	3.64	100.0 *
	Total Kjeldahl Nitrogen	47.5 mg/L	02/2014 HACH 10242	0.96	97.4 *
10/07 1157 NTR	_	6.3 S.U.	SM 2011 4500-H+ B	0.00	N/A *
	Phosphorous, Total (as P)	8.09 mg/L	EPA 365.3	0.00	103.0 *
	Solids, Total Suspended	2.8 mg/L	SM 2011 2540 D	0.00	N/A *
— - • · · · · · · · · · · · · · · · · · ·	Fecal Coliform (MPN/100mL	8.6 /100ml	06/2012 Colilert18	0.00	N/A *
	BOD, Carbonaceous	< 2.0 mg/L	SM 2001 5210 B	0.00	85.0 *
	Nitrate + Nitrite	40.90 mg/L	01/2013 HACH 10206	0.80	101.8 *
	Nitrogen, Plant Available	_·.	SM 1997 4500-N		

* OA 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.

KNN 4951123

Environmental Services Company, Inc. Northwest Arkansas 1107 Century Street Springdale, Arkansas 72762 website: www.esclabs.com



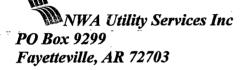
Corporate Office, Little Rock, Arkansas 501-221-2565

Carlsbad, New Mexico 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172 CHAIN OF CUSTODY

Filone. 475-750	Tione. 475-750-1170 Pax. 475-750-1172																		سيبي		
		lient li	nformation					Project Information						Red	ues	sted	Par	ame	eter	<u>}_</u> _	
Company Nam	ne:	Cave	Springs	Plant 2			Permit/Pro	ject#:	Quarter	·ly						•					
Address:		PO BO					Purchase (Order #:						ĺ		8					
, tagress.				72718	-									ĺ		16.	6)		'		
-	···		Springs	12/10	12110											ΙŻ	6				
Telephone:		479 24	48-1040	<u>. </u>			Sampler N	ame(s):	N	ed Ky	GIZON		-		<u></u>	Ě	Ţ	1	1		l
FAX:							<i>'</i>			7			<u> </u>	 4	133	22	Ö	· ·			l
							and Signat	ure(s):		no 1	Ry			顺	135	JA,	15				l
ESC Client Number: 2379							1				0			Coliform(43.IF)	6	3	8.	Į.			
Sample Identification					9	ample	Collection			Sample (Containers	`			CBOD(70),TSS(28)	NH3(15.A), P(25),TKN(16.A)	PAN(99.99), NO3+NO2 (91)	8			
				<u> </u>			T				1	_	ш	Fecal	8	EE .	A A	pH(23)			
Identifica	tion	on ESC Control #		Date	_	ime	Туре	Matrix	Туре	Volume	Preserva	ative	#		10	=	<u> </u>	<u> </u>	├		
Effluent Dive	rter Box	2010	620013	10-7-20	1	49	Grab	Water	Sterile	300 ml	none/ice		1	х	ـــــ	ــــــ	↓	ـــــ	<u> </u>	<u> </u>	<u> </u>
Effluent Dive	rter Box]				Grab	Water	Plastic	0.5 gal	попе/ice		1		x		<u> </u>	<u></u>			L_
Effluent Dive	rter Box						Grab	Water	Plastic	8 oz	H ₂ SO ₄ ,pH	<2	1			x	x	<u> </u>	<u> </u>	<u> </u>	
Effluent Dive	Effluent Diverter Box			1	•		Grab	Water	Glass	150 ml	none	<2_	1		<u> </u>			х	<u> </u>		<u> </u>
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:								Analyst:		pH:	1157	N	n	<u>_6</u>	3	6	<u>,3</u>	- <u>C</u>	jų.	۴	
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<u> </u>	Cool all samples to 6 degrees C.							~=====				 -									

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ADEQ WATER DIVISION/PERMITS BRANCH 5301 Northshore Drive N Little Rock, AR 72118-5317

