ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

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

W. 1	PERMITTEE NAME	т,	-	:
	CITY OF CAVE SPRINGS			
v	PERMITTEE ADDRESS	٧	·. :	,
	PO Box 5			
	Cave Springs AR 72718			

	FACILITY NAME
CAVE	SPRINGS WASTEWATER TREATMENT PLANT
y.13	FACILITY ADDRESS
	The Creeks Golf Course

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

	1499 S Main St Cave Springs AR 72718										
9,	MC	NITORING PERI	OD								
	MM/DD/YYYY	TO	MM/DD/YYYY								
	5/1/2020		5/31/2020								

Parameter Permit Limit Plant 2 Units	FREQUENCY OF ANALYSIS	SAMPLE TYPE			
TOTAL SUSPENDED SOLIDS (TSS) 45 2.7 7.1 MG/L FECAL COLIFORM BACTERIA (FCB) 10,000 <5.0 2053.0 COLONIES/100ml Ph 6.0 - 9.0 6.8 7 s.u TOTAL PHOSPHOROUS (TP) Report 5.59 7.76 MG/L TOTAL KJELDAHL NITROGEN (TKN) REport NITROGEN AMMONIA NITROGEN (NH 3 - N) Report NITRITE NITROGEN (NO 3 - N) + NITRATE NITROGEN (NO 2 - N) Report MG/L PLANT AVAILABLE NITROGEN (PAN) Report MONTHLY TOTAL MONTHLY TOTAL MONTHLY TOTAL DAILY MAX 4,408,749 283,943					
TOTAL PHOSPHOROUS (TP) TOTAL PHOSPHOROUS (TP) Report S.59 7.76 MG/L	·				
PH					
TOTAL PHOSPHOROUS (TP) Report Report TOTAL KJELDAHL NITROGEN (TKN) REPORT NITROGEN AMMONIA NITROGEN (NH 3 - N) REPORT NITRITE NITROGEN (NO 3 - N) + NITRATE NITROGEN (NO 2 - N) PLANT AVAILABLE NITROGEN (PAN) REPORT MONTHLY TOTAL MONTHLY TOTAL DAILY MAX 4,408,749 283,943	Once per Month / Grab				
TOTAL KJELDAHL NITROGEN (TKN) Report MG/L					
NITROGEN AMMONIA NITROGEN (NH 3 - N) Report MG/L					
NITRITE NITROGEN (NO 3 - N) + NITRATE NITROGEN (NO 2 - N) Report MG/L PLANT AVAILABLE NITROGEN (PAN) Report MG/L TOTAL FLOW MONTHLY TOTAL DAILY MAX 4,408,749 283,943					
PLANT AVAILABLE NITROGEN (PAN) Report MG/L TOTAL FLOW MONTHLY TOTAL DAILY MAX 4,408,749 GPD					
TOTAL FLOW MONTHLY TOTAL DAILY MAX GPD GPD	Once per Quar	ter / Grab			
TOTAL FLOW 4,408,749 283,943 GPD	1				
4,408,749 283,943					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM	TELEPHONE	DATE			
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	479 530-5926	U/15/2			
Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SIGNATURE OF PRINCIPAL					
	AREA NUMBER	MM/DD/YYYY			
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)	 				

			TABLE I	1							
	DRIP ZO	ONES LOAD	DING RATE LIMITS, MONITOR	ING AND	REPORTING F	REQUIREMENTS					
		 	May-20		DAILY MAXIMUM FLOW TOTAL						
	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum					
	0.55		26,000	1		20444					
•	0.42	7 [19,524	7			,				
		7 }		┪	1 1	•	1				

•			May-20		DAILY	DAILY MAXIMUM FLOW TOTAL					
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum					
Leach Field 1	0.55	1	26,000			20444					
Zone 1	0.42]	19,524] [
Zone 2	0.45] [19,309		l †	zones not being used					
Zone 3	0.4		16,424]	l Ì	zones not being used					
Zone 4	0.46		10,811		. [
Zone 5	0.2] [13,059]	[10506					
Zone 6	0.2] [7,723		l [6247					
Zone 7	0.2] [10,910]	i [8519					
Zone 8	0.3]	7,081	7	} [5679					
Zone 9	0.4		18,291		1 . [14482					
Zone 10	0.3		9,450		}	7383					
Zone 11	0.2] [4,110	1	l [3408					
Zone 12	0.4] {	7,522	1	I [5963					
Zone 13	0.25] [5,717	7	l f	4544					
Zone 14	0.15] [6,097]	Ī	4828					
Zone 15	0.2	gpd/ft2	8,378	gpd	Daily	6815					
Zone 16	0.4		9,427]	i [7383					
Zone 17	0.23] [3,694	7	1	2840					
Zone 19	0.35] [13,778	7	i [10790					
Zone 20	0,2] [5,766]	l	4544					
Zone 21	0.4] [17,040		l f	13630					
Zone 22	0.5] [28,113]	l f	22148					
Zone 23	0.25] [15,640	1	Ι	12210					
Zone 24	0.25] [9,547	┨	Ī	7667					
Zone 25	0.2] [4,436	7	Γ	3408					
Zone 26	0.3] [9,334	7		7383					
Zone 27	0.31] [16,511	7 · 1		13062					
Zone 28	0.31] [13,018		ļ	10222					
Zone 29	0.2	} [3,923]	l j	3124	,				
Zone 30	0.55] [10,116	7	· [7951					
Zone 31	0.3]	5,714	7	l f	4544					

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: 2005020010

Customer Name : CAVE SPRINGS UTILITY, PLANT 1

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

Report Date : 05/13/20

Sample Date : 05/06/20

Sample Time : 0836

Sample Type : GRAB

Sample From : EFFLUENT/DOSE TANK

Collected By: NTR

Delivery By : NTR Work Order :

Purchase Order :

		Quality ?	Assurance			
Analysis	•				Precision	Accuracy
Date Time By	Parameter	Result Notes	Quantity	Method	% RPD	% Recovery
05/06 0837 NTR	рн	6.1 S.U.		SM 2011 4500-H+ B	0.00	N/A
05/07 0945 TSB	Phosphorous, Total (as P)	8.59 mg/L	•	EPA 365.3	0.92	107.0 *
05/08 1310 TSB	Solids, Total Suspended	2.7 mg/L		SM 2011 2540 D	6.99	N/A *
05/06 1630 TSB	Fecal Coliform (MPN/100mL	< 5.0 /100ml		06/2012 Colilert18	0.00	N/A *
05/06 1300 TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	0.33	95.4 *

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.

4,408,749

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

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

Fax: 479-750-1172

Phone: 479-750-1170



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

Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	С	lient Infor	mation					Project Information							Requested Parameters							
Company Name	:	Cave Spri	ngs	Plant	1			Permit/Pro			·											
Address:		PO BOX 5	5					Purchase (-	-												
		Cave Sprin	ngs	72	2718]								ا ا						
Telephone:		479 248-1	040					Sampler N	ame(s):	N	ed R	od Ruevsin					(28)				,	
FAX:									and Signature(s): Ned Ryevsin Ned Ryevsin Ned Ryevsin							2)	SS	က္က				
								and Signat	ure(s):		Nes E	2ne 1 -				Forn	<u>, 1</u>	D.O.			.	
ESC Client Num	ber:	182	26											(23)	등	2	Sph					
Samp	ole Iden	tification				San	nple	Collection Sa			Sample Containers					<u>a</u>	응	Phosphorus				
Identificatio	Identification ESC Control #		ntrol#	Dat	te	Tim		Туре	Matrix	Туре	Volume	Preserva		#	핍	Fecal Coliform (43.IF)	CBOD (70), TSS			, [
Effluent/Dose	Tank	200502	2010	5-6-	20			Grab	Water	Glass	250 ml	None		0	Х							
Effluent/Dose		00000	ſ	1		Ĭ	<u> </u>	Grab	Water	Sterile	125 ml	Na ₂ S ₂ O ₃ /0		1		x						
Effluent/Dose			 					Grab	Water	Plastic	1/2 gal	None/Co		1			х			\neg	\neg	
Effluent/Dose	Tank				\Box			Grab	Water	Plastic	8 oz	H ₂ SO ₄ ,pH	-	1	-			х				
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									Reading: Units:		DO: Debris:		ļ					\dashv				
		Cool all samp	les to 6 de	grees C.		Cool all samples to 6 degrees C.									This	Doc	ume	nt is	Page	a 1	of i	

Environmental Services Company, Inc.

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Tel. (479) 750-1170 Fax (479) 750-1172

Control Number: 2005020011

Customer Name : CAVE SPRINGS UTILITY, PLANT 2

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

Report Date : 05/13/20

Sample Date : 05/06/20

Sample Time: 0849

Sample Type : GRAB
Sample From : EFFLUENT

Collected By: NTR Delivery By : NTR

Work Order : Purchase Order :

	<u> Laboratory Analysis</u>													
Analysis				Precision	Accuracy									
<u>Date Time By</u>	<u>Parameter</u>	Result Notes Quantity	Method	% RPD	% Recovery									
05/06 0855 NTR	pH	6.8 S.U.	SM 2011 4500-H+ B	0.00	N/A *									
05/07 0945 TSB	Phosphorous, Total (as P)	7.76 mg/L	EPA 365.3	0.92	107.0 *									
05/08 1310 TSB	Solids, Total Suspended	7.1 mg/L	SM 2011 2540 D	6.99	N/A *									
05/06 1630 TSB	Fecal Coliform (MPN/100mL	2053.0 /100ml	06/2012 Colilert18	0.00	N/A *									
05/06 1300 TSB	BOD, Carbonaceous	6.1 mg/L	SM 2001 5210 B	0.33	95.4 *									

* 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

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Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	Cli	ent Info	rmation					Project Information								Rec	ļues	sted	Parameters			3
Company Name:	(Cave Spr	ings	Plan	t 2			Permit/Pro	oject#:							Γ						Π
Address:	F	о вох	5					Purchase	Order #:						1							l
		Cave Spr	ings	7	2718			1	•						1							l
Telephone:		179 248-				-		Sampler N	iame(s).	7	Ned B					Œ		'	.			l
FAX:								Sampler Name(s): Ned Ryerso.							1	13.1	8					İ
								and Signature(s):						1	Ě	\$(2					i	
ESC Client Number:		23	70					and Signature(s): Med Weyerson							į	TS,	(25)				İ	
Sample le	lontit		79	T		_	omplo	Collection Sample Con							ြု	Fecal Coliform(43.IF)	CBOD(70),TSS(28)	ln i				
	L							Collection	1	 			_	#	pH(23)	eca	B	Total I				ł
Identification	-	ESC Co	_		ate	_	ime	Туре	Matrix	Туре	Volume	Preserva	rvative		_	<u> </u>	<u> </u>	Ĕ		 		
Effluent Diverter Bo	X g	200502	0011	5-6	-20	0	349	Grab	Water	Teflon	150 mi	none	none		X	▙	 	<u> </u>			Ш	<u> </u>
Effluent Diverter Bo	x							Grab	Water	Sterile	100 ml	Na ₂ S ₂ O ₃		1	<u> </u>	X			Ŀ			
Effluent Diverter Bo	x			<u> </u>				Grab	Water	Plastic	1/2 gal	none/ice		1		l	X					
Effluent Diverter Bo	x							Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2	1				Х				Ī
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Comments: 0				•				· (FLOW DA	\TA	Field Test						Res			Units	<u>; </u>	
				·					Analyst: Time:		pH: Temp.:	0355	דע	7(_	6.	8 6.8		<u> </u>	SU °C °F			
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							·	·	Units:	- :	Debris:		 			$\overline{}$	 					
	C	ool all sam	ples to 6 de	grees (Э.				Chlorinated? Yes No				This Document is Page of									

NWA Utility Services Inc PO Box 9299 Fayetteville, AR 72703

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