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	Α.	٠,	. 1
PO Box 5			
Cave Springs AR 72718			

		FACILITY NAME			
CAV	E SPRII	NGS WASTEWATER TREA	TME	ENT	PLANT
	25.1	FACILITY ADDRESS			0.00
1.75	<u> </u>				

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

1499 S Main St Cave Springs AR 72718									
	MONITORING PERIOD								
	MM/DD/YYYY	TO		MM/DD/YYYY					
	3/1/2021			3/31/2021					

	EFFL	UENT LIMITS, MONITORING, A	ND REPORTING R	EQUIREMENT	S					
PARAMETI	ER .	PERMIT LIMIT	SAMPLE MEA	SUREMENT Plant 2	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE			
CARBONACEOUS BIOCHEMICAL OXYG	GEN DEMAND (CBODS)	30	11.2	8	MG/L					
TOTAL SUSPENDED SOLIDS (TSS)		45	8.7	MG/L	7					
FECAL COLIFORM BACTERIA (FCB)		10,000	24.2	8.0	COLONIES/100ml	Once per Month / Grab				
рН		6.0 - 9.0	7	7.1	s.u					
TOTAL PHOSPHOROUS (TP)		Report	7.36	6.84	MG/L					
TOTAL KJELDAHL NITROGEN (TKN)		Report			MG/L					
NITROGEN AMMONIA NITROGEN (NH 3	- N)	Report			MG/L	0-1-10-1				
NITRITE NITROGEN (NO 3 - N) + NITRA	TE NITROGEN (NO 2 - N)	Report		-	MG/L	Once per Quarter / Grab				
PLANT AVAILABLE NITROGEN (PAN)		Report			MG/L					
TOTAL FLOW			MONTHLY TOTAL 4,075,465	DAILY MAX 211,137	GPD	GPD				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		AW THAT I HAVE PERSONALLY EXAM		- A		TELEPHONE	DATE			
Kathy Bartlett	THOSE INDIVIDUALS IMMEDIA INFORMATION, I BELIEVE THE SU	ITTED HEREIN; AND BASED ON MY NTELY RESPONSIBLE FOR OBTA BMITTED INFORMATION IS TRUE, ACC AT THERE ARE SIGNIFICANT PEN	AINING THE CURATE, AND	MUL SIGNATURE OF	PRINCIPAL	479 530-5926	4/15/2021			
TYPED OR PRINTED	SUBMITTING FALSE INFORMATION IMPRISONMENT.	ON, INCLUDING THE POSSIBILITY O	F FINE AND	EXECUTIVE OF AUTHORIZES		AREA NUMBER	MM/DD/YYYY			
COMMENTS AND EXPLANATION OF	VIOLATIONS (Reference all	attachments here)								
·										

TABLE II

DRIP ZONES LOADING RATE LIMITS: MONITORING AND REPORTING REQUIREMENTS

	· · · · · · · · · · · · · · · · · · ·		March		DAILY	211,137				
Zone ID Limit		Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum				
Leach Field 1	0.55	† <u>-</u>	26,000			17036				
Zone 1	0.42	1	19,524	7						
Zone 2	0.45	1 Г	19,309	7	ŀ	zones not being used				
Zone 3	0.4	7	16,424	7		The state of the s				
Zone 4	0.46	7 F	10,811]						
Zone 5	0.2	13,059	8710							
Zone 6	0.2	1 [7,723		1	4223				
Zone 7	0.2	7 [10,910			12669				
Zone 8	0.3	7	7,081	7	İ	5701				
Zone 9	0.4	1	18,291]	1	16891				
Zone 10	0.3	7 [9,450	7		6335				
Zone 11	0.2	1 [4,110	7		2956				
Zone 12	0.4	1 [7,522	7	1	4434				
Zone 13	0.25	7 [5,717	7		3379				
Zone 14	0.15	7 [6,097		Daily	4012				
Zone 15	0.2	gpd/ft2	8,378	gpd		6123	1			
Zone 16	0.4	7 [9,427]		6335				
Zone 17	0.23	7 [3,694		1	2112				
Zone 19	0.35	7 [13,778		1	10557				
Zone 20	0.2	7	5,766] .	i	3379				
Zone 21	0.4	7 [17,040]		12669				
Zone 22	0.5	7 . [28,113			19003				
Zone 23	0.25	7 [15,640	1		11191				
Zone 24	0.25	7 [9,547]	}	6335				
Zone 25	0.2	7 [4,436]	1	3590				
Zone 26	0.3	7 F	9,334			6123				
Zone 27	0.31] [16,511			12669				
Zone 28	0.31] [13,018			10346				
Zone 29	0.2] [3,923			2323				
Zone 30	0.55] [10,116			8657				
Zone 31	0.3	7 [5,714	7		3379				

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: 2103020009

Customer Name : CAVE SPRINGS UTILITY, PLANT 1

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

Report Date : 03/12/21

Sample Date : 03/03/21

Sample Time : 1320 Sample Type : GRAB

Sample From : EFFLUENT

Collected By: HNS
Delivery By: HNS

Work Order:

Purchase Order :

		Laboratory Analysis		Qu	ality Assurance	
	•	HANOLACOLY ANALYSES		Prec	ision Accura	су
Analysis Date Time By	Parameter	Result Notes Qu	antity Metho		RPD % Recove	
03/03 1322 HNS		7.0 S.U.	SM 2011 45	- 1	.00 N/	
03/10 1435 NTR	Phosphorous, Total (as P)	7.36 mg/L	EPA 365.3	_	101.	
	Solids, Total Suspended	8.7 mg/L	SM 2011 25	,		A *
03/03 1615 HNS	Fecal Coliform (MPN/100mL		06/2012 Co			A *
03/04 0735 TWM	BOD, Carbonaceous	11.2 mg/L	SM 2001 52	TO B . 50	.90 102.	0 "

* 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 trime indicates the time of the start of the analytical batch in which the specific sample was included.

·Signature

Environmental Services Co., Inc.

Kristin Mullins

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. 479-750-1170					Delicat Information					Requested Parameters								
,	Client Information			Project Information						<u>req</u>	ues	tea	Par	ame	ners	-		
Company Name:	Cave Springs	Plant 1		Permit/Pro	oject#:													
Address:	PO BOX 5	-		Purchase	Purchase Order #:													Į
	Cave Springs	72718	72718 ·		•	,,	_					Ē	8					į
Telephone:	479 248-1040			and Signature(s): Havelen Sm: +4					43.	(2)		١.						
FAX:			•								ŀ	E	TSS	SH SH	ı.			İ
				and Signa	ture(s):	Hay	le la	HL_				햝	(70), TSS (28)	힏				
ESC Client Number:	1826			<u> </u>							<u>@</u>	Fecal Coliform (43.IF)	(5)	Phosphorus				
Sample Ide	entification		Sample	Collection			Sample	Container	s		(23)	ख्न	CBOD	P				
Identification	ESC Control #	Date	Time	Type	Matrix	Туре	Volume	Preserva	ative	#	Hd	Fe	띵	<u> </u>				
Effluent/Dose Tank	2103020009	3-3-21	1320	Grab	Water	Glass	250 ml	None		0	X			Ŀ				
Effluent/Dose Tank	i			Grab	Water	Sterile	125 ml	Na ₂ S ₂ O ₃ /	Cool	1		X						<u>. </u>
Effluent/Dose Tank				Grab	Water	Plastic	1/2 gai	None/C	ool	1			X					
Effluent/Dose Tank	\ \	4	•	Grab	Water	Plastic	8 oz	H₂SO₄,pH <2		1				Х			\square	
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Relinquished By: (Signature and Print	ed Name)	Date	Time	Received By: (Si	gnature and Printed	. Name)		Date	Tim		Cusic Usėd'	ody Se ?	als.	į	Intac	i?		
Relinquished By: (Signature and Print	ed Name)	Date	Time	Received By: (Si	gnature and Printed	Name)		Date	Tim		Tuma Regul	round		, I .	Spe	wint		
Relinquished By: (Signature) and Brint		Date 3-3-21	Time	Received for Lab	By: (Signature and	Printed Name		3/3/4	Time 16	9	Were	samp Yes		perty	prese		一	
Comments:		3-3-21		17	FLOW D/		Field Test	Time	Analys		Resu	_	Resu	ilt		Units	-	
					Analyst:		pH:	1362	HN		7.0	5	7.					
					Time:		Temp.:			\dashv		· ·			°C °F			
	· · · · · · · · · · · · · · · · · · ·				Reading:	<u> </u>	DO:								 -			-
11016					Units:		Debris:	12 Vo- 1			Thic	<u>ب</u>	umc	nt is	_		of :	
LINS	Cool all samples to 6 de	grees C.		Chlorinated? Yes No				This Document is Page 1. of 1										

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Environmental Services Company, Inc.

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

Control Number: 2103020010

Customer Name : CAVE SPRINGS UTILITY, PLANT 2

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

Report Date : 03/12/21

Sample Date : 03/03/21

Sample Time : 1348
Sample Type : GRAB

Sample From : EFFLUENT

Collected By: HNS Delivery By: HNS

Work Order :

Purchase Order:

Tabo	Laboratory Analysis										
Analysis		,	Precision	Accuracy							
Date Time By Parameter	Result Notes Quantity	<u> Method</u>	% RPD	% Recovery							
03/03 1348 HNS pH	7.1 S.U.	SM 2011 4500-H+ B	0.00	N/A *							
03/10 1435 NTR Phosphorous, Total (as P)	6.84 mg/L	EPA 365.3	0.12	101.0							
03/05 1145 HNS Solids, Total Suspended	13.6 mg/L	SM 2011 2540 D	2.56	N/A *							
03/03 1615 HNS Fecal Coliform (MPN/100mL	8.0 /100ml	06/2012 Colilert18	0.00	N/A *							
03/04 0735 TWM BOD, Carbonaceous	8.0 mg/L	SM 2001 5210 B	20.90	102.0 *							

* 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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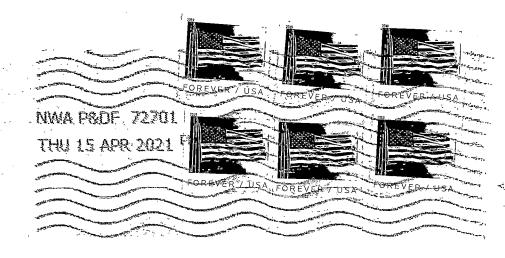
> Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	Client Information					Project Information						Requested				Parameters			
Company Name):	Cave Springs	Plant 2		Permit/Pro	ject #:												.	,
Address:		PO BOX 5			Purchase Order #:											. 1			
		Cave Springs	72718		1		_												
Telephone:	· · · · · · · · · · · · · · · · · · ·	479 248-1040			Sampler Name(s): Havden Saith and Signature(s): Hawk Mh					正									
FAX:		110 240-1040			_ Campier Name(o):			<u> </u>	7171				13	ଛ					
rax.	·····	- <u></u>	*****		and Signal		4	10	14				Ē	38(2					
EOO Oliant Num		2379	*		and Signature(s): Hay With							Fecal Coliform(43.IF)	CBOD(70),TSS(28)	(25)	:				
ESC Client Num			1	Commis	Callaction		ı	Comple (Containers			3)	ပ္	Ĕ	ட				
Sample Identification					Collection			 	Containers			pH(23)	ega	<u>G</u>	Total	·			
Identificati	on	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	tive	#		<u> </u>	ပ	-				
Effluent Diver	er Box	2103620016	3-3-21	1348	Grab	Water	Teflon	150 ml	none		0	X				 -	igsqcup		
Effluent Diver	er Box				Grab	Water	Sterile	100 ml	Na ₂ S ₂ O ₃		1		X						
Effluent Diver	er Box				Grab	Water	Plastic	1/2 gal	none/ice		1			X					
Effluent Diverter Box		\	ı	ı ı	Grab	Water	Plastic	8 oz	H ₂ SO ₄ ,pH <2 1					X					
:]									
		<u> </u>																	
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Relinquished By: (Signatu	re and Printed	Name)	Date	Time	Received By: (Sig	nature and Printed	Name)	<u> </u>	Date	Tin	re e		ody Se						
	and Drintal		Date	Time	Bosolund Bur (Cir	mature and Printed	Mama)	· · · · · · · · · · · · · · · · · · ·	Date	Tim	10	Used	i? around	N		Inta	ct?		
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Relinquished By: (Signatu		Name)	Date	Time	Received for Lab	By: (Signature and	Printed Name	<u> </u>	3/3/21	1 b	C.		samp Yes		operly		erved: No		 I
Hal Mt. 3-3-21 1600		1600	1 /4/54	FLOW DA		Field Test	Time	Analy		Resi		Resu	ilt	_	Units	 S			
Comments.			·			Analyst:		pH:	1348	Hus	_	7.		7.					
				Time:		Temp.:								°C :		°F			
					Reading:		DO:		<u> </u>						<u> </u>				
						Units:		Debris:	<u> </u>	<u> </u>						نيا	 -		
	Cool all samples to 6 degrees C.					Chlorinated? Yes				lo	This Document is Page 1 of 1							<u> </u>	

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NWA Utility Services Inc PO Box 9299 Fayetteville, AR 72703

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