

**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
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

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

MONITORING PERIOD		
MM/DD/YYYY	TO	MM/DD/YYYY
7/1/2019		7/31/2019

EFFLUENT LIMITS, MONITORING, AND REPORTING REQUIREMENTS						
PARAMETER	PERMIT LIMIT	SAMPLE MEASUREMENT		UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD5)	30	< 2		MG/L	Once per Month / Grab	
TOTAL SUSPENDED SOLIDS (TSS)	45	4.1		MG/L		
FECAL COLIFORM BACTERIA (FCB)	10,000	13.5		COLONIES/100ml		
pH	6.0 - 9.0	6.1		s.u		
TOTAL PHOSPHOROUS (TP)	Report	8.08		MG/L	Once per Quarter / Grab	
TOTAL KJELDAHL NITROGEN (TKN)	Report	16		MG/L		
NITROGEN AMMONIA NITROGEN (NH ₃ - N)	Report	15.7		MG/L		
NITRITE NITROGEN (NO ₃ - N) + NITRATE NITROGEN (NO ₂ - N)	Report	42.8		MG/L		
PLANT AVAILABLE NITROGEN (PAN)	Report	58.6		MG/L		
TOTAL FLOW		MONTHLY TOTAL	DAILY MAX	GPD		
		3,838,688	127,006			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM 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 COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.			TELEPHONE		DATE
Kathy Bartlett				479	790-3813	8/5/2019
TYPED OR PRINTED				AREA CODE	NUMBER	MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)						

TABLE II

DRIP ZONES LOADING RATE LIMITS, MONITORING AND REPORTING REQUIREMENTS

		Jul-19		DAILY MAXIMUM FLOW TOTAL		127,006
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum
Leach Field 1	0.55	gpd/ft ²	26,000	gpd	Daily	9145
Zone 1	0.42		19,524			<i>zones not being used</i>
Zone 2	0.45		19,309			
Zone 3	0.4		16,424			
Zone 4	0.46		10,811			
Zone 5	0.2		13,059			
Zone 6	0.2		7,723			2795
Zone 7	0.2		10,910			3811
Zone 8	0.3		7,081			2541
Zone 9	0.4		18,291			6478
Zone 10	0.3		9,450			3303
Zone 11	0.2		4,110			1525
Zone 12	0.4		7,522			2668
Zone 13	0.25		5,717			2033
Zone 14	0.15		6,097			2160
Zone 15	0.2		8,378			3049
Zone 16	0.4		9,427			3303
Zone 17	0.23		3,694			1271
Zone 19	0.35		13,778			4827
Zone 20	0.2		5,766			2033
Zone 21	0.4		17,040			6097
Zone 22	0.5		28,113			9907
Zone 23	0.25		15,640			5462
Zone 24	0.25		9,547			3430
Zone 25	0.2		4,436			1525
Zone 26	0.3		9,334			3303
Zone 27	0.31		16,511			5843
Zone 28	0.31		13,018			4573
Zone 29	0.2		3,923			1398
Zone 30	0.55		10,116			3557
Zone 31	0.3		5,714			2033

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

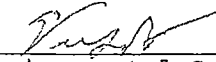
Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1907020024	Sample Date : 07/03/19	Collected By: JEW
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1610	Delivery By : JEW
Customer/Permit No. : 2379 / 4893-WR-3 002	Sample Type : GRAB	Work Order :
Report Date : 07/10/19	Sample From : EFFLUENT DIVERTER BX	Purchase Order :

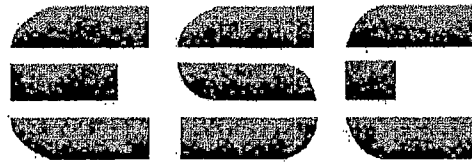
<u>Laboratory Analysis</u>						<u>Quality Assurance</u>			
<u>Analysis</u>						<u>Precision</u>	<u>Accuracy</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
07/05	1530	TSB	Ammonia as N, (HACH 10205)	15.70 mg/L			SM 2011 4500-NH3 F	0.00	100.0 *
07/09	0830	TSB	Total Kjeldahl Nitrogen	16.1 mg/L			02/2014 HACH 10242	1.94	98.0
07/03	1620	JEW	pH	6.1 S.U.			SM 2011 4500-H+ B		
07/09	0930	TSB	Phosphorous, Total (as P)	8.080 mg/L			EPA 365.3	1.67	110.0 *
07/08	1445	TSB	Solids, Total Suspended	4.1 mg/L			SM 2011 2540 D	11.41	N/A *
07/03	1730	TSB	Fecal Coliform (MPN/100mL)	13.5 /100ml			06/2012 Colilert18	0.00	0.0 *
07/03	1705	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	2.72	90.0 *
07/09	1300	TSB	Nitrate + Nitrite	42.80 mg/L			01/2013 HACH 10206	0.38	99.4 *
05/10	0900	TSB	Nitrogen, Plant Available	58.6 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.

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

Client Information				Project Information							Requested Parameters										
Company Name: Cave Springs Plant 2				Permit/Project #:							pH(23)	Fecal Coliform(43.1F)	CBOD(70), TSS(28)	Total P (25)							
Address: PO BOX 5				Purchase Order #:																	
Cave Springs 72718				Sampler Name(s): James W. Hse																	
Telephone: 479 248-1040				and Signature(s):																	
FAX:																					
ESC Client Number: 2379																					
Sample Identification		Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Effluent Diverter Box	1907020024	7/3/19	1610	Grab	Water	Teflon	150 ml	none	1	x											
				Grab	Water	whirpak	300 ml	none/ice	1		x										
				Grab	Water	Plastic	0.5 gal	none/ice	1			x									
				Grab	Water	Plastic	8 oz	H ₂ SO ₄ , pH <2	1				x								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:													
James W. Hse		7/3/19	1700	James W. Hse				Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:													
								Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:													
				James Brooks		7/3/19	1700	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>											
Comments:				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units									
				Analyst:		pH:		1620	JWH	6.1	6.1										
				Time:		Temp.:		1620	JWH	27.2	27.2	°C									
				Reading:		DO:															
				Units:		Debris:															
Cool all samples to 6 degrees C.							Chlorinated? Yes No			This Document is Page 1 of 1											