

**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
MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
8/1/2019 TO 8/31/2019

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

EFFLUENT LIMITS, MONITORING, AND REPORTING REQUIREMENTS

PARAMETER	PERMIT LIMIT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBODs)	30	3.1	MG/L	Once per Month / Grab	
TOTAL SUSPENDED SOLIDS (TSS)	45	4.2	MG/L		
FECAL COLIFORM BACTERIA (FCB)	10,000	435.2	COLONIES/100ml		
pH	6.0 - 9.0	6.7	s.u		
TOTAL PHOSPHOROUS (TP)	Report	8.27	MG/L		
TOTAL KJELDAHL NITROGEN (TKN)	Report	No Report	MG/L	Once per Quarter / Grab	
NITROGEN AMMONIA NITROGEN (NH ₃ - N)	Report	No Report	MG/L		
NITRITE NITROGEN (NO ₂ - N) + NITRATE NITROGEN (NO ₃ - N)	Report	No Report	MG/L		
PLANT AVAILABLE NITROGEN (PAN)	Report	No Report	MG/L		
TOTAL FLOW		MONTHLY TOTAL 3,527,160	DAILY MAX 141,807	GPD	

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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE	
Kathy Bartlett			479	530-5926	9/10/2019
TYPED OR PRINTED			AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

Found blown seal on one zone valve. Replaced valve actuator with new one.
 Found zone valve not working properly, we have repaired the valve
 Found broken fitting on supply line in one zone, BBB excavated to the line and repaired it
 Found broken pipe for cleanout from splitter box at plant. BBB excavated to pipe, cleaned pipe and installed new cleanout to surface with a cap, backfilled excavated area.
 Seven irrigation ports for potable water irrigation on the greens have found to be leaking. We have spoken to golf course management about this matter and they are in the process of making the repairs

TABLE II

DRIP ZONES LOADING RATE LIMITS, MONITORING AND REPORTING REQUIREMENTS

		Aug-19		DAILY MAXIMUM FLOW TOTAL		141,185
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum
Leach Field 1	0.55	gpd/ft2	26,000	gpd	Daily	10166
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			5224
Zone 5	0.2		13,059			3107
Zone 6	0.2		7,723			4236
Zone 7	0.2		10,910			2824
Zone 8	0.3		7,081			7201
Zone 9	0.4		18,291			3671
Zone 10	0.3		9,450			1695
Zone 11	0.2		4,110			2965
Zone 12	0.4		7,522			2259
Zone 13	0.25		5,717			2401
Zone 14	0.15		6,097			3389
Zone 15	0.2		8,378			3671
Zone 16	0.4		9,427			1412
Zone 17	0.23		3,694			5366
Zone 19	0.35		13,778			2259
Zone 20	0.2		5,766			6777
Zone 21	0.4		17,040			11013
Zone 22	0.5		28,113			6071
Zone 23	0.25		15,640			3812
Zone 24	0.25		9,547			1695
Zone 25	0.2		4,436			3671
Zone 26	0.3		9,334			6495
Zone 27	0.31		16,511			5083
Zone 28	0.31		13,018			1554
Zone 29	0.2		3,923			3954
Zone 30	0.55		10,116			2259
Zone 31	0.3		5,714			

Cave Springs Plant 122 Daily Flow Aug, 2019

DRIPFIELD PUMP STATION # 3

DATE	DISPERSAL READING	TOTAL GALLONS	RETURN READING	TOTAL GALLONS
8-1-19	107972168 PH 5.9	96,485	18,686	115,171
8-2-19	108068653 PH 5.9	91,496	18,429	109,925
8-3	108188149	90,623	18,429	109,052
8-4	108250772	86,369	18,430	104,799
8-5	108337141 PH 6.5	81,814	15,886	97,700
8-6	108419955 PH 6.3	89,431	13,636	103,067
8-7	108508386 PH 6.5	88,899	13,303	102,202
8-8	108597285 PH 6.3	127,017	14,293	141,310
8-9	108724302 PH 6.7	102,680	10,239	112,919
8-10	108826982	101,429	10,038	111,467
8-11	108928411	99,696	10,038	109,734
8-12	109028107 PH 6.5	99,728	9,227	107,955
8-13	109127835 PH 6.3	102,223	7,221	109,444
8-14	109230058 PH 6.5	94,681	10,171	104,852
8-15	109324739 PH 6.3	93,702	10,239	103,941
8-16	109418441 PH 6.3	107,585	8,286	115,871
8-17	109522026	103,585	8,286	111,871
8-18	109625611	103,585	8,287	111,872
8-19	109729196 PH 6.7	104,929	7,975	112,904
8-20	109834125 PH 6.4	103,541	6,448	110,089
8-21	109937766 PH 6.3	101,423	6,921	110,344
8-22	110039189 PH 6.3	122,226	4,465	126,691
8-23	110161415 PH 6.5	113,468	7,588	121,056
8-24	110284880	111,794	7,588	119,382
8-25	110385674	110,261	7,570	117,831
8-26	110495935 PH 6.4	131,470	7,489	138,959
8-27	110627405 PH 6.6	99,070	5,608	104,678
8-28	110716475 PH 6.4	106,928	6,345	113,273
8-29	110822999 PH 6.5	95,656	6,060	101,716
8-30	110918655 PH 6.4	133,742	4,905	138,647
8-31	111052127	133,178	4,900	138,078
9-1	111185207			

Rec'd

Rec'd

Rec'd

Rec'd

Total Plant 2 3,213,037

Total Plant 1 - 314,123 Total Flow 3,527,160 gal

141,807 max/day flow

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: 1908020019
 Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2
 Customer/Permit No. : 2379 / 4893-WR-3 002
 Report Date : 08/19/19

Sample Date : 08/14/19
 Sample Time : 1350
 Sample Type : GRAB
 Sample From : EFFLUENT DIVERTER BX

Collected By: JEW
 Delivery By : JEW
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/14	1350	JEW	pH	6.7 S.U.			SM 2011 4500-H+ B	0.00	N/A *
08/15	1430	TSB	Phosphorous, Total (as P)	8.270 mg/L			EPA 365.3	1.80	111.0 *
08/15	0900	TSB	Solids, Total Suspended	4.2 mg/L			SM 2011 2540 D	5.57	N/A *
08/14	1645	TSB	Fecal Coliform (MPN/100mL)	435.2 /100ml			06/2012 Colilert18	0.00	0.0 *
08/14	1630	TSB	BOD, Carbonaceous	3.1 mg/L			SM 2001 5210 B	8.23	116.0 *

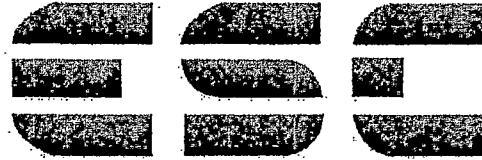
* QA data shown is from a different sample or standard on the same date.

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 _____

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

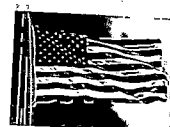
CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters									
Company Name:		Cave Springs Plant 2		Permit/Project #:							pH(23)	Fecal Coliform(43.IF)	CBOD(70), TSS(28)	Total P (25)						
Address:		PO BOX 5		Purchase Order #:																
		Cave Springs 72718		Sampler Name(s):		<i>James Willt James Willtse</i>														
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	1908020019	8-14-19	1350	Grab	Water	Teflon	150 ml	none	1	X										
				Grab	Water	whirlpak	100 ml	Na2S2O2	1		X									
				Grab	Water	Plastic	1/2 gal	none/ice	1			X								
				Grab	Water	Plastic	8 oz	H2SO4,pH <2	1				X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?									
<i>James Willt James Willtse</i>		8-14-19	1620							<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special									
										<input checked="" type="checkbox"/>	<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:		Yes	No									
				<i>James Brooks James Brooks</i>		8-14-19	1620			<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Comments:						FLOW DATA	Field Test	Time	Analyst	Result	Result	Units								
						Analyst:	pH:	1350	<i>JEW</i>	6.7	6.7									
						Time:	Temp.:	1350	<i>JEW</i>	29.1	29.3	°C	°F							
						Reading:	DO:													
						Units:	Debris:													
Cool all samples to 6 degrees C.						Chlorinated? Yes No			This Document is Page <u>1</u> of <u>1</u>											

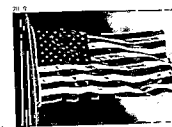
NWA Utility Services

PO BOX 9299

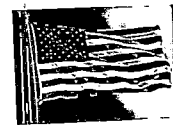
Fayetteville AR 72704



FOREVER / USA



FOREVER / USA



FOREVER / USA



FOREVER / USA

ADEQ

Water Division / Permits
Branch

5301 Northshore Blvd

N. Little Rock, AR

72178-5317

