

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION

PERMITTEE NAME
City of Cave Springs

PERMITTEE ADDRESS
P.O. Box 36
Cave Springs, AR, 72718

FACILITY NAME (IF DIFFERENT)
Plant #1

FACILITY ADDRESS
1499 1/2 S. Main St

PERMIT NO.
4893-WR-2

AFIN NO.
04-01642

MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM.

WASTEWATER EFFLUENT MONITORING PERIOD

FROM 07/01/2015 TO 07/31/2015

TREATED WASTEWATER EFFLUENT (SAMPLING)						
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	14.9	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	---	27.0	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE	6 to 9	7.0	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	---	28.0	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	---	70.0	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	42.60	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH ₃ -N) EFFLUENT GROSS VALUE	*****	41.6	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO ₃ -N + NO ₂ -N) EFFLUENT GROSS VALUE	*****	.469	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		42.4	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
		.175	.017			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tony Merworth
Water/sewer superintendent

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 Tony Merworth

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 479 295-3013

DATE: 08/06/2015

AREA CODE: 479 NUMBER: 295-3013

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)
 Fixed and until we get enough flow to this plant, we will be shutting this plant down until mechanical components are monthly total will not be accurate due to magmeter malfunctioning.

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: 1507020018
 Customer Name : CAVE SPRINGS, CITY OF
 Customer/Permit No. : 1826 / 4893-WR-2
 Report Date : 07/15/15

Sample Date : 07/08/15
 Sample Time : 1035
 Sample Type : GRAB
 Sample From : EFFLUENT DOSE TANK

Collected By: WDS
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/08	1130	TSB	Ammonia Nitrogen	41.6 mg/L			SM 1997 4500-NH3 F	0.00	100.4 *
07/13	0800	TSB	Kjeldahl Nitrogen Total	42.60 mg/L			SM 1997 4500-NorgB	1.80	97.6
07/10	1100	TSB	Nitrate Nitrogen	0.45 mg/L			SM 2000 4500-NO3 E	1.49	100.1 *
07/10	0800	TSB	Nitrite Nitrogen	0.019 mg/L			SM 2000 4500 NO2 B	5.24	95.5 *
07/08	1035	WDS	pH	7.0 S.U.			SM 2000 4500-H+ B	0.00	N/A *
07/10	1030	TSB	Phosphorous, Total (as P)	14.9 mg/L			EPA 365.3	1.63	100.8 *
07/13	1500	KIK	Solids, Total Suspended	28.0 mg/L	(b)		SM 1997 2540 D	14.29	N/A
07/08	1550	TSB	Coliform, Fecal	70 /100ml			SM 1997 9222 D	0.00	N/A *
07/08	1200	KIK	BOD, Carbonaceous	27.0 mg/L	(b)		SM 2001 5210 B	1.50	99.7 *
07/13	1630	KIK	Solids, % Total by mass	0.044 %			SM 1997 2540 G	13.64	N/A
07/13	1630	TSB	Nitrogen, Plant Available	42.4 mg/L			SM 1997 4500-N		

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration

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 Richard Bromm
 Environmental Services Co., Inc.

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION

PERMITTEE NAME
 City of Cave Springs

PERMITTEE ADDRESS
 P.O. Box 36
 Cave Springs, AR, 72718

FACILITY NAME (IF DIFFERENT)
 Plant #2

FACILITY ADDRESS
 498 Pebble Beach

PERMIT NO.
 4893-WR-2

AFIN NO.
 04-01642

MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM.

WASTEWATER EFFLUENT MONITORING PERIOD

FROM 07/01/2015 TO 07/31/2015

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	6.8	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	_____	2.0	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE	6 to 9	6.1	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	_____	20.0	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	_____	< 2	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	21.30	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH ₃ -N) EFFLUENT GROSS VALUE	*****	13.6	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO ₃ -N + NO ₂ -N) EFFLUENT GROSS VALUE	*****	54.8	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		54.8	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
		1.24	0.65			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Tony Merworth
 water/sewersuperintendent

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

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 479 295-3013
 DATE: 08/06/2015

AREA CODE: 479 NUMBER: 295-3013
 MM/DD/YYYY: 08/06/2015

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)
 additives also this is first sample pulled since it has been in operation
 TSS is a little high however we are looking at chemical

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: 1507020346
 Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2
 Customer/Permit No. : 2379 / 4893-WR-2 002
 Report Date : 07/28/15

Sample Date : 07/21/15
 Sample Time : 1230
 Sample Type : GRAB
 Sample From : EFFLUENT DIVERTER B

Collected By: WDS
 Delivery By : WDS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis				Quality Assurance		
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/23	0845 TSB	Ammonia Nitrogen	13.6 mg/L			SM 1997 4500-NH3 F	0.70	107.0 *
07/27	0800 TSB	Kjeldahl Nitrogen Total	21.30 mg/L			SM 1997 4500-NorgB	3.44	102.5 *
07/23	1330 TSB	Nitrate Nitrogen	15.80 mg/L			SM 2000 4500-NO3 E	0.00	100.8 *
07/22	1300 TSB	Nitrite Nitrogen	39.000 mg/L			SM 2000 4500 NO2 B	2.07	96.5 *
07/21	1230 WDS	pH	6.1 S.U.			SM 2000 4500-H+ B	0.00	N/A *
07/23	1030 TSB	Phosphorous, Total (as P)	6.8 mg/L			EPA 365.3	4.76	102.2 *
07/22	1000 TSB	Solids, Total Suspended	20.0 mg/L	(b)		SM 1997 2540 D	9.52	N/A *
07/21	1340 WDS	Coliform, Fecal	< 2 /100ml			SM 1997 9222 D	0.00	N/A *
07/22	0800 RHB	BOD, Carbonaceous	2.0 mg/L			SM 2001 5210 B	2.78	93.4 *
07/23	1500 KIK	Solids, % Total by mass	0.034 %			SM 1997 2540 G	7.79	N/A *
07/27	1600 TSB	Nitrogen, Plant Available	54.8 mg/L			SM 1997 4500-N		


* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration

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 Richard Brown
 Environmental Services Co., Inc.

City of Cave Springs
P.O. Box 36
Cave Springs, AR 72718

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



1000



72118

U.S. POSTAGE
PAID
CAVE SPRINGS, AR
72718
AUG 06 15
AMOUNT

\$0.49
R2305E123417-04

ADEQ
Enforcement Section/Water Div.
5301 Northshore Dr.
North Little Rock, AR 72118

72118+5317

