

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

PERMITTEE NAME
Benton County, Arkansas Suburban Sewer District No 1 Villages of Cross Creek
PERMITTEE ADDRESS
PO Box 9299 Fayetteville AR 72703


FACILITY NAME (IF DIFFERENT)
Villages of Cross Creek
FACILITY ADDRESS
3302 N Dixieland Rd Little Flock AR

PERMIT NO.
4811-WR-4
AFIN NO.
04-00899

WASTEWATER EFFLUENT MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
7/1/2016		7/31/2016

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.640193	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.023396	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	30	5	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	30	15.5	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	4	colonies/100ml		
pH	6.0 - 9.0	6.7	s.u.		
Total Phosphorus (TP)	REPORT	5	mg/l	Grab sample once per quarter	
Total Kjeldahl Nitrogen (TKN)	REPORT	33.6	mg/l		
Ammonia Nitrogen	REPORT	25.7	mg/l		
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)	REPORT	8.6	mg/l		
Plant Available Nitrogen (PAN)	REPORT	36.7	mg/l		
Loading Rate	REPORT	see attached	gpd/ft 2	Daily	

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
			(479) 530-5926	8/4/2016
TYPED OR PRINTED				MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (*Reference all attachments here*)

VILLAGES OF CROSS CREEK LOADING RATES

Zone Identification	GPD/sq 2
1	2,644
2	2,644
3	2,644
4	2,644
5	2,644
6	2,644
7	3,135
8	3,650
9	Not used
10	Combined with 8
11	3,088
12	Not used
13	Not used
14	Not used
15	Not used
16	Not used
17	Not used

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: 1607020127
 Customer Name : DIXIELAND UTILITY LLC
 Customer/Permit No. : 1698 / 4811-WR-4 001
 Report Date : 07/22/16

Sample Date : 07/13/16
 Sample Time : 1200
 Sample Type : GRAB
 Sample From : DOSE TANK EFFLUENT

Collected By: AEU
 Delivery By : AEU
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Parameter	Result	Notes	Quantity	Method
Date	Time	By					
07/14	0900	TSB	Ammonia Nitrogen	25.7 mg/L			SM 1997 4500-NH3 F
07/21	0930	TSB	Kjeldahl Nitrogen Total	33.60 mg/L			SM 1997 4500-NorgB
07/13	1200	AEU	pH	6.7 S.U.			SM 2000 4500-H+ B
07/14	1300	TSB	Phosphorous, Total (as P)	5.0 mg/L			EPA 365.3
07/15	1000	AEU	Solids, Total Suspended	15.5 mg/L			SM 1997 2540 D
07/13	1400	CLS	Coliform, Fecal	4 /100ml			SM 9222 D 1997
07/13	1400	TSB	BOD, Carbonaceous	5.0 mg/L			SM 2001 5210 B
07/14	1415	TSB	Nitrate + Nitrite	8.6 mg/L			SM 2000 4500-NO3 E
07/21	1615	TSB	Nitrogen, Plant Available	36.7 mg/L			SM 1997 4500-N

Quality Assurance

Precision	Accuracy
% RPD	% Recovery
0.00	98.4 *
1.60	101.0 *
3.23	100.3 *
22.22	N/A *
0.00	N/A *
9.40	87.0 *
0.60	101.2 *

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

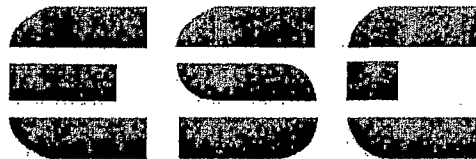
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature

Richard Broom

Environmental Services Co., Inc.

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 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: Dixieland Utility LLC.				Permit/Project #:							pH(23)	Phos(25), NH ₃ -N(15.A)	TKN(16-A)N+N(91)	CBOD(70), TSS(28), PAN(99.99)	Fecal Coliform(43)							
Address: 3302 N. Dixieland				Purchase Order #:																		
Rogers AR				Sampler Name(s): Amber Underwood																		
Telephone: (479)936-0333 (Cell)				and Signature(s): <i>[Signature]</i>																		
Telephone:																						
ESC Client Number: 1698																						
Sample Identification		Sample Collection				Sample Containers																
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Dose Tank/Effluent	1607020127	7-13-16	1200	GRAB	Water	teflon	150 ml	none	1	x												
				GRAB	Water	Plastic	8 oz	H ₂ SO ₄ , pH<2	1		x	x										
				GRAB	Water	Plastic	1 qt	none/ice	1				x									
				GRAB	Water	Whirlpak	300ml	NaS ₂ O ₄	1					x								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:		Used?	Intact?										
<i>[Signature]</i> Amber Underwood		7-13-16	1255	<i>[Signature]</i> Richard Brown			7-13-16	1255	Were samples properly preserved:		Yes	No										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround:		Regular	Special										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved:		Yes	No										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved:		Yes	No										
Comments:				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units										
				Analyst:		pH:		1200	AEU	6.74	6.73											
				Time:		Temp.:		1200	AEU	29.0	29.1	°C	°F									
				Reading:		DO:																
				Units:		Debris:																
Cool all samples to 6 degrees C.								Chlorinated? Yes No			This Document is Page 1 of 1											