

**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

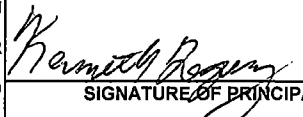
FACILITY NAME (IF DIFFERENT) Villages of Cross Creek
FACILITY ADDRESS 3302 N Dixieland Rd Little Flock AR

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

WASTEWATER EFFLUENT MONITORING PERIOD	
MM/DD/YYYY 2/1/2016	MM/DD/YYYY 2/29/2016

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.528788	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.020962	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	30	14	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	30	28	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	< 4	colonies/100ml		
pH	6.0 - 9.0	7.1	s.u.		
Total Phosphorus (TP)	REPORT	6.3	mg/l	Grab sample once per quarter	
Total Kjeldahl Nitrogen (TKN)	REPORT	40.3	mg/l		
Ammonia Nitrogen	REPORT	1.5	mg/l		
Nitrate Nitrogen (NO ₃ -N) + Nitrite Nitrogen (NO ₂ -N)	REPORT	3.2	mg/l		
Plant Available Nitrogen (PAN)	REPORT	16.3	mg/l	Daily	
Loading Rate	REPORT	**See Note Below**	gpd/ft 2		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Kathy Bartlett	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	3/7/2016
TYPED OR PRINTED				MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (*Reference all attachments here*) ****NOTE**** Installed Equipment at this site was not designed to monitor this parameter. A permit revision is being requested. We have noticed ponding in drip fields, and are in process of working on a CAP with ADEQ.

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: 1602020132
 Customer Name : GREENFIELD CAP DEV-VIL @ CC EFF
 Customer/Permit No. : 1698 / 4811-WR-2 001
 Report Date : 02/19/16

Sample Date : 02/12/16
 Sample Time : 1145
 Sample Type : GRAB VILLAGES
 Sample From : DOSE TANK EFFLUENT

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

Laboratory Analysis

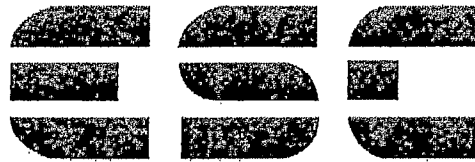
<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
02/18	1000	TSB	Ammonia Nitrogen	1.5 mg/L			SM 1997 4500-NH3 F	2.44	104.6 *
02/18	0830	TSB	Kjeldahl Nitrogen Total	40.30 mg/L			SM 1997 4500-NorgB	2.11	101.4 *
02/12	1145	WDS	pH	7.1 S.U.			SM 2000 4500-H+ B	0.00	N/A *
02/16	0915	TSB	Phosphorous, Total (as P)	6.3 mg/L			EPA 365.3	0.00	103.2 *
02/17	1220	MDR	Solids, Total Suspended	28.0 mg/L			SM 1997 2540 D	0.00	N/A *
02/13	1405	WDS	Coliform, Fecal	< 4 /100ml			SM 1997 9222 D	0.00	N/A *
02/12	1200	TSB	BOD, Carbonaceous	14.0 mg/L			SM 2001 5210 B	13.88	85.0 *
02/16	1330	TSB	Nitrate + Nitrite	3.2 mg/L			SM 2000 4500-NO3 E	0.66	101.4 *
02/18	1600	TSB	Nitrogen, Plant Available	16.3 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 Richard Brown
 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: Greenfield Capital-Villages @ Cross C						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): Wade Smith															
Telephone: (479)936-0333 (Cell)						and Signature(s):															
Telephone:																					
ESC Client Number: 1698																					
Sample Identification		Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Dose Tank/Effluent	1602020132	2-12-16	11:45	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?									
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									
Comments:						FLOW DATA	Field Test	Time	Analyst	Result	Result	Units									
						Analyst:	pH:	11:45	WRS	7.1											
						Time:	Temp.:	11:45	WRS	17.8		°C									
						Reading:	DO:														
						Units:	Debris:														
Cool all samples to 6 degrees C.						Chlorinated? Yes No					This Document is Page ___ of ___										