

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

PERMITTEE NAME

Waterford Estates at Hissom Ranch POA

PERMITTEE ADDRESS

3567 W New Hope Rd
Rogers, AR 72756

FACILITY NAME (IF DIFFERENT)

Waterford Estates at Hissom Ranch POA

FACILITY ADDRESS

2323 Bowen Blvd
Fayetteville AR 72703

PERMIT NO.

4815-WR-4

AFIN NO.

72-00974

WASTEWATER EFFLUENT MONITORING PERIOD

MM/DD/YYYY

1/1/2019

MM/DD/YYYY

1/31/2019

TREATED WASTEWATER EFFLUENT SAMPLING

TREATED WASTEWATER EFFLUENT SAMPLING					
PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	1.091349	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.043038	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	6.4	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	6.2	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	< 4	colonies/100ml		
pH	6.0 - 9.0	7.9	s.u.		
Total Phosphorus (TP)	REPORT	7.03	mg/l	Grab sample once per quarter	
Total Kjeldahl Nitrogen (TKN)	REPORT	71	mg/l		
Ammonia Nitrogen (NH3-N)	REPORT	62	mg/l		
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)	REPORT	0.47	mg/l		
Plant Available Nitrogen (PAN)	REPORT	65.2	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	TELEPHONE	DATE
Kathy Bartlett TYPED OR PRINTED	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.	(479) 530-5926	2/6/2019
			MM/DD/YYYY

Kenneth Rogers

SIGNATURE OF PRINCIPAL

EXECUTIVE OFFICER OR

AUTHORIZED AGENT

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

Jan 2019 WATERFORD ESTATES LOADING RATES 43,038 Max Day

Zone Identification	GPD/sq 2
Zone 1A	3,572
Zone 1B	3,400
Zone 2A	3,400
Zone 2B	3,228
Zone 3A	3,400
Zone 3B	3,400
Zone 4A	3,400
Zone 4B	3,400
Zone 5A	3,766
Zone 5B	3,942
Zone 6A	3,766
Zone 6B	4,304

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: 1901020180
Customer Name : WATERFORD UTILITY, LLC
Customer/Permit No. : 1886 / 4815-WR-4
Report Date : 01/23/19

Sample Date : 01/16/19
Sample Time : 0925
Sample Type : GRAB WATERFORD
Sample From : EFFLUENT DOSE TANK

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

Laboratory Analysis

Analysis						
Date	Time	By	Parameter	Result	Notes	Quantity
01/17	0930	TSB	Ammonia as N, (HACH 10205)	62.00 mg/L		
01/22	0900	TSB	Total Kjeldahl Nitrogen	71.0 mg/L		
01/16	0930	JEW	pH	7.9 S.U.		
01/21	1100	TSB	Phosphorous, Total (as P)	7.030 mg/L		
01/21	1600	AKA	Solids, Total Suspended	6.2 mg/L		
01/16	1700	TSB	Fecal Coliform (MPN/100mL)	< 4.0 /100ml		
01/16	1400	TSB	BOD, Carbonaceous	6.4 mg/L		
01/22	1450	TSB	Nitrate + Nitrite	0.47 mg/L		
01/22	1600	TSB	Nitrogen, Plant Available	65.2 mg/L		
01/18	1000		Sample Collection/Travel	1 each		

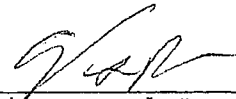
Quality Assurance

Precision	Accuracy
% RPD	% Recovery
0.14	101.0 *
6.83	108.0 *
0.00	N/A *
0.00	109.0 *
23.05	N/A *
13.66	0.0 *
4.75	109.9 *
0.00	96.0 *

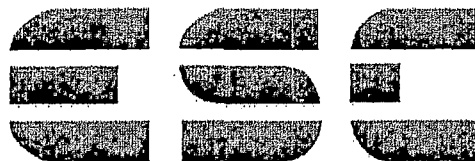
* QA data shown is from a different sample or standard on the same date.

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: Waterford Estates						Permit/Project #:					<p>pH(23) F. Coliform(43.IF) CBOD(70), TSS(28), PAN(99.99) NH3(15.A), Phos(25) TKN(16.A), N+N(91)</p>									
Address: 1695 Electric Avenue						Purchase Order #:														
Springdale AR 72764						Sampler Name(s): James Willett Jones Wiltsie														
Telephone: (479)751-8868						and Signature(s):														
FAX: (479)757-7650																				
ESC Client Number: 1886																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	pH(23)	F. Coliform(43.IF)	CBOD(70), TSS(28), PAN(99.99)	NH3(15.A), Phos(25)	TKN(16.A), N+N(91)						
Dose Tank/Effluent	1901020180	1-16-19	0925	Grab	Water	Teflon	150 ml	none	1	X										
Waterford Estates				Grab	Water	whirlpak	300 ml	none/ice	1		X									
				Grab	Water	Plastic	1/2 gal	none/ice	1			X								
				Grab	Water	Plastic	8 oz	H ₂ SO ₄ , pH <2	1				X	X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:												
James Willett Jones Wiltsie		1-16-19	1230					Used? <input 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 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 Brook James Brook		1-16-19	1230	Yes <input type="checkbox"/> No <input type="checkbox"/>												
Comments:						FLOW DATA		Field Test	Time	Analyst	Result	Result	Units							
						Analyst:		pH:	0930	WJ	7.9	7.9	°C							
						Time:		Temp.:	0930	WJ	11.4	11.3	°F							
						Reading:		DO:												
						Units:		Debris:												
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page <u> </u> of <u> </u>										