

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

1/1/2020

MM/DD/YYYY

1/30/2020

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.920,760	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximun	REPORT	0.045455	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	10.1	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	8	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	96	colonies/100ml		
pH	6.0 - 9.0	7.9	s.u.		
Total Phosphorus (TP)	REPORT	7.17	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	69.5	mg/l	Grab sample once per quarter	
Ammonia Nitrogen (NH3-N)	REPORT	57.6	mg/l		
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)	REPORT	0.46	mg/l		
Plant Available Nitrogen (PAN)	REPORT	61.6	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.

Kathy Bartlett

TYPED OR PRINTED

Kathy Bartlett

**SIGNATURE OF PRINCIPAL
EXECUTIVE OFFICER OR
AUTHORIZED AGENT**

TELEPHONE

(479) 530-5926

DATE

2/12/2020

MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

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: 2001020125
Customer Name : WATERFORD UTILITY, LLC
Customer/Permit No. : 1886 / 4815-WR-4
Report Date : 01/24/20

Sample Date : 01/15/20
Sample Time : 1135
Sample Type : GRAB
Sample From : DOSE TANK EFFLUENT

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
								% Recovery
01/16	0830	TSB	Ammonia as N, (HACH 10205)	57.60 mg/L			SM 2011 4500-NH3 F	1.72
01/21	1100	TSB	Total Kjeldahl Nitrogen	69.5 mg/L			02/2014 HACH 10242	2.02
01/15	1135	JEW	pH	7.9 S.U.			SM 2011 4500-H+ B	0.00
01/21	1000	TSB	Phosphorous, Total (as P)	7.17 mg/L			EPA 365.3	1.74
01/20	1230	TSB	Solids, Total Suspended	8.0 mg/L			SM 2011 2540 D	1.08
01/15	1650	TSB	Fecal Coliform (MPN/100mL)	96.0 /100mL			06/2012 Colilert18	0.00
01/15	1600	TSB	BOD, Carbonaceous	10.1 mg/L			SM 2001 5210 B	3.91
01/23	1000	TSB	Nitrate + Nitrite	0.46 mg/L			01/2013 HACH 10206	1.90
01/23	1115	TSB	Nitrogen, Plant Available	61.6 mg/L			SM 1997 4500-N	

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

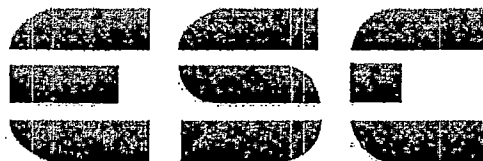
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

Signature

Environmental Services Co., Inc.

920, 760
45, 455

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 #: <u> </u>						<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD (3), TSS (28) CBOD (70)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">T-Phos (25)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Fecal Coliform (43 IF)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH (23)</div> </div>						
Address: 1695 Electric Avenue				Purchase Order #: <u> </u>												
Springdale AR 72764				Sampler Name(s): <u>James W. Hse</u>												
Telephone: (479)751-8868				and Signature(s): <u> </u>												
FAX: (479)757-7650																
ESC Client Number: 1886																
Sample Identification		Sample Collection				Sample Containers										
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#							
Dose Tank/Effluent	2001020125	1-15-20	1135	Grab	Water	Plastic	1/2 gal	None, Cool	1	X						
Dose Tank/Effluent				Grab	Water	Plastic	250 mL	H2SO4, pH < 2	1		X					
Dose Tank/Effluent				Grab	Water	Sterile	100 mL	Na2S2O3, Cool	1			X				
Dose Tank/Effluent				Grab	Water	Glass	8 oz	None	0				X			
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Date	Time	Custody Seals:						
<u>James W. Hse</u>		1-15-20	1400	<u> </u>						Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Date	Time	Turnaround:						
				<u> </u>						Regular <input checked="" 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:						
				<u> </u>				1-15-20	1400	Yes <input type="checkbox"/> No <input type="checkbox"/>						
Comments:				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units				
				Analyst:		pH:		1135	KEW	7.9	7.9					
				Time:		Temp.:		1135	KEW	16.7	16.7	°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>						

January 2020 WATERFORD ESTATES LOADING RATES

Daily Max

45,455

Zone Identification

GPD/sq 2

Zone 1A

3,772

Zone 1B

3,590

Zone 2A

3,590

Zone 2B

3,409

Zone 3A

3,590

Zone 3B

3,590

Zone 4A

3,590

Zone 4B

3,590

Zone 5A

3,977

Zone 5B

4,163

Zone 6A

3,977

Zone 6B

4,617

NWA UTILITY SERVICES, INC

PO Box 9299
Fayetteville, AR
72703

LITTLE ROCK
SAT 15 FEB

ADEQ
WATER DIV. Permits
Branch
5301 Northshore Dr
N Little Rock, AR

72118-5317