

**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

4/1/2020

MM/DD/YYYY

4/30/2020

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	1,126,367	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.047205	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	13.9	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	8.4	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	4,106	colonies/100ml		
pH	6.0 - 9.0	7.9	s.u.		
Total Phosphorus (TP)	REPORT	7.46	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	81.7	mg/l	Grab sample once per quarter	
Ammonia Nitrogen (NH3-N)	REPORT	81.2	mg/l		
Nitrate Nitrogen ( NO3-N) + Nitrite Nitrogen ( NO2-N)	REPORT	0.38	mg/l		
Plant Available Nitrogen (PAN)	REPORT	81.7	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.

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

TELEPHONE

(479) 530-5926

DATE

5/12/2020

MM/DD/YYYY

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

We missed fecals last month mainly due to sludge tank needs to be sucked out and clarifier had allowed some floaties to get over the weir and into the pump tank. This allows the fecal to have food to populate

April 2020 WATERFORD ESTATES LOADING RATES

Daily Max

47,205

Zone Identification

GPD/sq 2

Zone 1A

3,918

Zone 1B

3,729

Zone 2A

3,729

Zone 2B

3,606

Zone 3A

3,729

Zone 3B

3,729

Zone 4A

3,729

Zone 4B

3,729

Zone 5A

4,130

Zone 5B

4,324

Zone 6A

4,130

Zone 6B

4,721

# 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: 2004020083  
Customer Name : WATERFORD UTILITY, LLC  
Customer/Permit No. : 1886 / 4815-WR-4  
Report Date : 04/24/20

Sample Date : 04/15/20  
Sample Time : 0910  
Sample Type : GRAB WATER  
Sample From : DOSE TANK/EFFLUENT

Collected By: BRS  
Delivery By : BRS  
Work Order :  
Purchase Order :

## Laboratory Analysis

Analysis							Quality Assurance	
Date	Time	By	Parameter	Result	Notes	Quantity	Precision % RPD	Accuracy % Recovery
04/16	0900	TSB	Ammonia as N, (HACH 10205)	81.20 mg/L			0.29	103.0 *
04/21	0900	TSB	Total Kjeldahl Nitrogen	81.7 mg/L			0.00	100.1 *
04/15	0910	BRS	pH	7.9 S.U.			0.00	N/A *
04/23	0830	TSB	Phosphorous, Total (as P)	7.46 mg/L			1.85	110.0 *
04/16	1000	TSB	Solids, Total Suspended	8.4 mg/L			7.75	N/A *
04/15	1545	TSB	Fecal Coliform (MPN/100mL)	4106.0 /100ml	(b)		0.00	N/A *
04/15	1400	TSB	BOD, Carbonaceous	13.9 mg/L			3.17	103.9 *
04/16	1115	TSB	Nitrate + Nitrite	0.38 mg/L			0.49	97.0 *
04/23	1430	TSB	Nitrogen, Plant Available	81.7 mg/L				

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

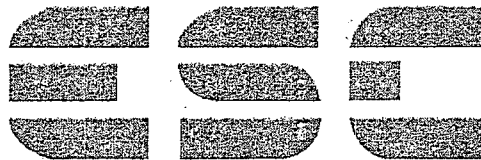
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

Signature

Environmental Services Co., Inc.

1,120,307  
47,205

Environmental Services Company, Inc.  
Northwest Arkansas  
1107 Century Street  
Springdale, Arkansas 72762  
website: [www.esclabs.com](http://www.esclabs.com)



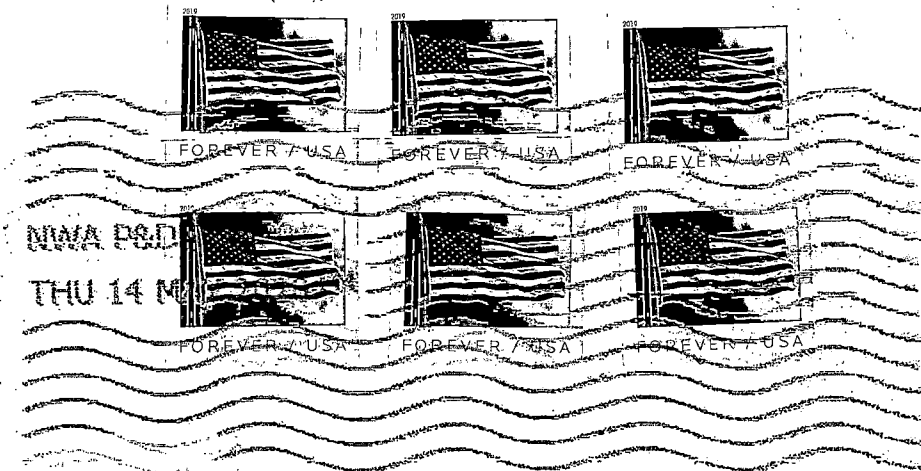
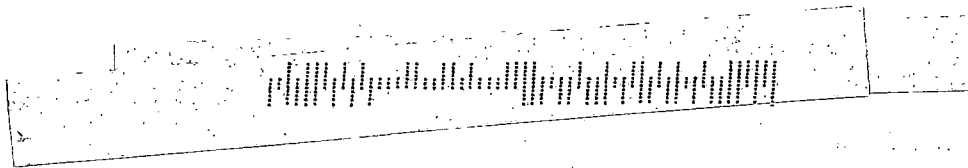
Corporate Office, Little Rock, Arkansas  
501-221-2565


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 #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH(23)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">F. Coliform(43.1F)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CBOD(70), TSS(28), PAN(99.99)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NH3(15.A), Phos(25)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">s-TKN(16.C), NO<sub>3</sub>+NO<sub>2</sub> (91)</div> </div>					
Address: 1695 Electric Avenue				Purchase Order #:									
Springdale AR 72764													
Telephone: (479)751-8868				Sampler Name(s): <i>Brian Steichman</i>									
FAX: (479)757-7650				and Signature(s): <i>[Signature]</i>									
ESC Client Number: 1886													
Sample Identification		Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
Dose Tank/Effluent	2004032083	4/15/20	09:10	Grab	Water	Glass	150 ml	none	1	X			
Waterford Estates	↓	↓	↓	Grab	Water	Sterile	120ml	none/ice	1		X		
				Grab	Water	Plastic	1/2 gal	none/ice	1			X	
				Grab	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> , pH <2	1			X	X
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	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:					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Comments:				FLOW DATA		Field Test		Time		Analyst		Result	
				Analyst:		pH:		09:10		DBS		7.9	
				Time:		Temp.:		✓				14.1 14.2 (C) °F	
				Reading:		DO:							
				Units:		Debris:							
Cool all samples to 6 degrees C.								Chlorinated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		This Document is Page 1 of 1			



 **NWA Utility Services Inc**  
**PO Box 9299**  
**Fayetteville, AR 72703**

ADEQ  
Water Division/Branch  
5301 Northshore Dr  
N Little Rock, AR 72118