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

Waterford Estates at Hissom Ranch POA PERMITTEE ADDRESS FACILITY ADDRESS 2323 Boven Bive 72-00974	PERMITTEE NAME	FERENT)		PERMIT NO.				
1233 Bowen Blud 12323 Bowen	Waterford Estates at Hisson Ranch POA Waterford Estates at Hissom Ranch POA						4815-VVR-1]
MM/DD/YYYY MM/DD/YYYY MM/DD/YYYY S/1/2016 S/31/2016 S/	3567 W New Hope Rd		. A * (1. 1) - (4 - 1)]		
TREATED WASTEWATER EFFLUENT SAMPLING PARAMETER Limit Sample Measurement UNITS Monitoring Reporting Reporting Flow, Monthly total REPORT S12,585 MG Total Flow per celendar month REPORT 32,330 MGD Carbonaceous Blochemical Oxygen Demand (CBOD5) 15 42 mg/l Total Suspended Solids (TSS) Focal Colliform Bacteria (FCB) pH 60-9.0 7.7 s.u. Grab Sample once per month Flowing Month Flowing Month Prior to the 15th of the following Month Total Phosphorus (TP) REPORT Total Kjeldahi Nitrogen (ND3-N) + Nitrite Nitrogen (NO2-N) REPORT Nitrate Nitrogen (ND3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT REPORT See Attached gpd/t12 Daily TELEPHONE TELEPHONE TELEPHONE AMAMANAMA TELEPHONE TELEPHONE TELEPHONE AMAMANAMA TELEPHONE	1103610,711172700		TWACT	<u> </u>			1	
Parameter Limit Sample Measurement UNITS Monitoring Reporting			MM/DD/YYYY					
Flow, Monthly total REPORT 912,585 MG Total Flow per calendar month Flow, Mally maximum REPORT 32,330 MGD Daily Carbonaceous Blochemical Oxygen Demand (CBODS) 15 <2 mg/l Total Suspended Solids (TSS) 15 2.5 mg/l Fecal Coliform Bacteria (FCB) 2,000 <4 colonies/100ml pH 6,0-9,0 7.7 s.u. Total Phosphorus (TP) REPORT 7.9 mg/l Total Kjeldahl Nitrogen (TKN) REPORT mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT gent mg/l Plant Available Nitrogen (PAN) Loading Rate REPORT See Attached gpd/t 2 Daily PAME/ITILE PRINCIPAL EXECUTIVE OFFICER CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND DAM WITH THE INFORMATION OF SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF KINCIPAL (479) 530-506	TREATED WASTEWATER EFFLUE	NT SAMPLING]
Flow, daily maximum REPORT 32,330 MGD Daily Total Suspended Solids (TSS) 15 2.5 Mg/l Fecal Coliform Bacteria (FCB) 15 2,000 44 colonies/100ml PH 6.09.0 7.7 s.u. Total Phosphorus (TP) REPORT 7.9 Mg/l Ammonia Nitrogen (NI3-N) REPORT Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT REPORT REPORT Mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT REPORT REPORT REPORT REPORT REPORT See Attached gpd/t2 Daily TetLEPHONE 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 SIGNATURE OF FIRE INC. 193. 100. 100. 100. 100. 100. 100. 100. 10	PARAMETER		Limit	Sample Measurement	UNITS	Monitoring	Reporting	
Carbonaceous Blochemical Oxygen Demand (CBOD5) 15 < 2 mg/l 7 Total Suspended Solids (TSS) 15 2.5 mg/l 2,000 < 4 colonies/100ml PH 6,0 - 9,0 7.7 s.u. Total Phosphorus (TP) REPORT 7.9 mg/l Ammonia Nitrogen (NH3-N) Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT See Attached gpd/ft 2 NAME/ITILE PRINCIPAL EXECUTIVE OFFICER 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 Signature of Ficien Nog Signature of	Flow, Monthly total		REPORT	912,585	MG	Total Flow per calendar month]
Total Suspended Solids (TSS) 15 2.5 mg/l Pecal Coliform Bacteria (FCB) 2,000 4.4 colonies/100ml pH 6,0-9.0 7.7 s.u. Total Phosphorus (TP) REPORT 7.9 mg/l Ammonia Nitrogen (NH3-N) REPORT REPORT Mitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT MEPORT MITRAL Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT REPORT Mg/l OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF FRINCIPAL (479) 530-5926	Flow, daily maximun		REPORT	32,330	MGD	Daily		
Fecal Coliform Bacteria (FCB) 2,000 4 colonies/100ml PH 6,0 - 9,0 7,7 8,u. Total Phosphorus (TP) REPORT 7,9 mg/l Ammonia Nitrogen (NH3-N) REPORT	Carbonaceous Biochemical Oxygen De	mand (CBOD5)	15	< 2	mg/l			
Prior to the 15th of the following Month Total Phosphorus (TP) Total Kjeldahi Nitrogen (TKN) Ammonia Nitrogen (NH3-N) Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) Plant Available Nitrogen (PAN) REPORT	Total Suspended Solids (TSS)		15	2.5	mg/l			
Total Phosphorus (TP) REPORT	Fecal Coliform Bacteria (FCB)		2,000	< 4	colonies/100ml	Grab Sample once per month		
Total Kjeldahl Nitrogen (TKN) REPORT REPORT Mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT Mg/l Plant Available Nitrogen (PAN) REPORT REPORT REPORT REPORT REPORT REPORT REPORT REPORT REPORT See Attached See Attached See Attached See Attached See Attached 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 SIGNATURE OF PRINCIPAL (479) 530-5026	рН		6.0 - 9.0	7.7	s.u.		Prior to the 15th of the	
Ammonia Nitrogen (NH3-N) REPORT REPORT Mitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT REPORT Mg/I Loading Rate REPORT REPORT See Attached REPORT Submitted Principal executive officer 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 SIGNATURE OF ARINCIPAL (479) 530-5926	Total Phosphorus (TP)		REPORT	7.9	mg/l		following Month	
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT REPORT REPORT REPORT See Attached gpd/ft 2 Daily Daily REPORT Submitted Principal executive officer 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 SIGNATURE OF PRINCIPAL (479) 530-5926	Total Kjeldahl Nitrogen (TKN)		REPORT		mg/l			
Nitrate Nitrogen (NO2-N) + Nitrite Nitrogen (NO2-N) REPORT mg/l Plant Available Nitrogen (PAN) REPORT mg/l Loading Rate REPORT See Attached gpd/ft 2 Daily NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF FRINCIPAL (479) 530-5926	Ammonia Nitrogen (NH3-N)		REPORT		mg/l	Grah sample once per quarter		
Loading Rate REPORT See Attached gpd/ft 2 Daily 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 SIGNATURE OF PRINCIPAL (479) 530- 5926	Nitrate Nitrogen (NO3-N) + Nitrite Nitrog	en (NO2-N)	REPORT		mg/l	Giab sample once per quarter		
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 SIGNATURE OF PRINCIPAL (479) 530- 5926	Plant Available Nitrogen (PAN)		REPORT					
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 SIGNATURE OF PRINCIPAL (479) 530-	Loading Rate		REPORT See Attached gpd/ft 2 Daily					
OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF PRINCIPAL (479) 530-	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PER	NALTY OF LAW THAT I HAVE PERSONALI	71 11	TELEPHONE	DATE		
COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, EXECUTIVE OFFICER OR	Kathy Bartlett	OBTAINING THE INFO	ORMATION, I BELIEVE THE SUBMITTE	D INFORMATION IS TRUE, A	CCURATE, AND	SIGNATURE OF PRINCIPAL	5926	6/12/2016
TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)	TYPED OR PRINTED	E INFORMATION,			MM/DD/YYYY			

WATERFORD ESTATES I	OADING RATES
Zone Identification	GPD/sq 2
Zone 1A	2,683
Zone 1B	2,554
Zone 2A	2,554
Zone 2B	2,425
Zone 3A	2,554
Zone 3B	2,554
Zone 4A	2,554
Zone 4B	2,554
Zone 5A	2,829
Zone 5B	2,961
Zone 6A	2,829
Zone 6B	3,233

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: 1605020248

Customer Name : GREENFIELD CAP DEV-WATERFORD

Customer/Permit No.: 1886 / 4815-WR-4

Report Date : 05/24/16

Sample Date : 05/18/16

Sample Time : 0900

Sample Type : GRAB WATERFORD Sample From : DOSE TANK EFFLUENT Collected By: VLP Delivery By : VLP

Work Order : Purchase Order :

	Quality Assurance					
Analysis		,			Precision	Accuracy
Date Time By	<u> Parameter</u>	Result Notes	Quantity	Method	% RPD	% Recovery
05/18 0905 VLP	_	7.7 S.U.		SM 2000 4500-H+ B	0.00	N/A *
05/19 1330 TSB	Phosphorous, Total (as P)	7.9 mg/L		EPA 365.3	1.60	104.8 *
	Solids, Total Suspended	2.5 mg/L		SM 1997 2540 D	0.00	N/A *
05/18 1700 RHB	Coliform, Fecal	< 4 /100ml		SM 9222 D 1997	0.00	N/A *
05/18 1430 TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	0.00	90.6 *

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.

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

Environmental Services Company, Inc. Northwest Arkansas 1107 Century Street Springdale, Arkansas 72762

Fax: 479-750-1172

website: www.esclabs.com

Phone: 479-750-1170

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

> Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

Client Information				Project Information						************	Requested Parameters							
Company Name: Address:	e: Waterford Estates 1695 Electric Avenue			Permit/Project #: Purchase Order #:									CBOD(70), TSS(28),PAN(99.99)					
Tolombono:	Springdale AR 72	764			1	12	1 00	با					PAN,			,		
Telephone: FAX:	(479)751-8868 (479)757-7650				Sampler Name(s):			L. PATE			- - - -	3)	SS(28)	NH3(15.A), Phos(25)	FKN(16.A),N+N(91)			
ESC Client Number	er: 1886	· · · · · · · · · · · · · · · · · · ·		and Signat	and Signature(s):						•	F. Coliform(43)	70), T	A), P	A),N+			
Sample	e Identification		Sample	Collection		Sample Containers					ଛି		ğ	3(15	(16.			
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	Preservative #		pH(23)	F. C	CBC	NHI	M			
Dose Tank/Efflu	uent 1605020248	5/18/11	0400	Grab	Water	Teflon	150 ml	none		1	x							
Waterford Esta	ites			Grab	Water	whirlpak	300 mi	none/ice		1		х						
			-	Grab	Water	Plastic	1 qt	none/ice		1			х					
				Grab	Water	Plastic	8 oz	H ₂ SO ₄ ,pH	<2	1								
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													 	\square				
Refinquished By: (Signature and Way AM Way Refinquished By: (Signature and Refinquished By: (S	nd Printed Name)	Date 5 / / & / / / / Date	71me 091/0 Time	Received By: (Signature and Printed Name) Received By: (Signature and Printed Name)				Date Time			Custody Seals: Used?		 	Intact?				
Relinquished By: (Signature and Printed Name)		Date	Time							Turnaround: Regular V			Special					
		Date	rime	Received for Lab By: (Signature and Printed Name) Richard Brown Richard Brown S18111			11m	10		Were samples prope Yes		peny	No No					
Comments:				FLOW DATA		Field Test	Time	Analys		Resu		Result		Units				
					Analyst: Time:		pH: Temp.:	0905	W	\$	7-	11	7.	73	°C	540	~ °F	
					Reading:		DO:											
		Units:		Debris:														
	Cool all samples to 6 de	Chlorin				orinated? Yes No				Doc	ume	nt is	Page	3	of			