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

Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.  Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, AUTHORIZED AGENT  MM/DD/YY	PERMITTEE NAME		PERMIT								
1233 Bowen Blvd	Waterford Estates at Hisson Ra		4815-WR	-1							
Rogers, AR 72758    MAN/DD/YYY   G/1/2016   MM/DD/YYY   G/30/2016   MM/DD/YY   MM/DD/YY   G/30/2016   MM/DD/YY   MM											
WASTEWATER EFFLUENT MONITORING PERIOD MM/DD/YYYY 6/30/2016  TREATED WASTEWATER EFFLUENT SAMPLING PARAMETER Limit Sample Measurement UNITS Monitoring Reporting  Flow, Monthly total REPORT 886,680 Gallons Total Flow per calendar month Flow, daily maximun REPORT 28,383 Gallons Carbonaccous Blochemical Oxygen Demand (CBODS) 15 3.7 mg/f. Total Suspended Solids (TSS) 15 6 mg/f. Pacal Coliform Bacteria (FCB) 2,000 4.4 colonise/100mil pH 60.9.0.0 7.3 s.u. Total Phosphorus (TP) REPORT 8.1 mg/f. Total Kjeldahi Nitrogen (RN-N) REPORT no report mg/f. Ammonia Nitrogen (ND-N) + Nitro Nitrogen (ND-N) REPORT no report mg/f. Nitrate Nitrogen (ND-N) + Nitro Nitro Nitrogen (ND-N) REPORT no report mg/f. Nitrate Nitrogen (PAN) REPORT no report mg/f. Pack Available Nitrogen (ND-N) + Nitro Nitro Nitrogen (ND-N) REPORT no report mg/f.  VASTEWATER EFFLUENT MONITORING PERIOD  WASTEWATER EFFLUENT MONITORING PERIOD  WASTEWATER EFFLUENT SAMPLED AND AND WITH THE INFORMATION SUBMITTED FERRING AND GASED ON MY MOURY OF THOSE MONITOUALS IMMEDIATELY RESPONSIBLE FOR AUMSTITUS PERSONALTY OF FINES ROMENIATION IS TRUE, ACCURATE, AND SIGNATURE OF PERIOD AND THE RESIBILITY OF FINE AND MASSED CHAPTED INFORMATION, IS TRUE, ACCURATE, AND ALTONOMY OF THOSE MONITOUALS IMMEDIATELY RESPONSIBLE FOR AUMSTITUS PERSONALTIES FOR SUBMITTING PASS INFORMATION, STORMATION IS TRUE, ACCURATE, AND ACCURATE PER AND DASSED ON MY MOURY OF THOSE MONITOUALS IMMEDIATELY RESPONSIBLE FOR AUMSTITUS PASS PONSIBLE FOR AUMSTITUS PAS	•	· · · · · · · · · · · · · · · · · · ·									
MM/DD/YYYY   G/12016   G/12016   G/12016	Rogers, AR 72756						-				
TREATED WASTEWATER EFFLUENT SAMPLING  PARAMETER Limit Sample Measurement UNITS Monitoring Reporting Flow, Monthly total REPORT 686,680 Gallons Total Flow per calendar month REPORT 28,383 Gallons Carbonaccous Blochemical Oxygen Demand (CBOD5) 15 3.7 mg/l Total Suspended Solids (TSS) 15 6 mg/l Pecal Coliform Bacteria (FCB) 2,000 4 d coloniae/floom PH Total Phosphorus (TP) REPORT 8.1 mg/l Total Phosphorus (TR) REPORT 10.1 mg/l Ammonia Nitrogen (NH-N) REPORT 10.1 ro report 10.1 mg/l Nitrate Nitrogen (NO-N) + Nitrite Nitrogen (NO-N) REPORT 10.1 ro report 10.1 mg/l Nitrate Nitrogen (PAN) REPORT 10.1 ro report 10.1 mg/l REPORT 10.1 ro report 10.1 mg/l Nitrate Nitrogen (NO-N) + Nitrite Nitrogen (NO-N) REPORT 10.1 ro report 10.1 mg/l Nitrate Nitrogen (PAN) REPORT 10.1 ro report 10.1 mg/l Nitrate Nitrogen (PAN) REPORT 10.1 ro report 10.2 mg/l Nitrate Nitrogen (RO-N) REPORT 10.3 report 10.4 repositional Repositional Report 10.4 repositional Repositional Report 10.4 repositional Repos				TEWATER EFFLUENT MO	NITORING PERIO						
TREATED WASTEWATER EFFLUENT SAMPLING  PARAMETER  Limit Sample Measurement UNITS Monitoring Reporting  Flow, Monthrity total REPORT 688,680 Gallons Total Flow per calendar month Report 128,383 Gallons Dally  REPORT 15 3.7 mg/l  Grab Sample Once per month Proving Monthrity (Carbonaccous Blochemical Oxygen Demand (CBODS) 15 3.7 mg/l  Total Suspended Solids (TSS) 15 6 mg/l  6.0 - 9.0 7.3 s.u  Total Phosphorus (TP) REPORT REPORT REPORT 10 report 1											
PARAMETER			6/1/2016	İ							
REPORT   S88,680   Gallons   Total Flow per calendar month   REPORT   28,383   Gallons   Daily	TREATED WASTEWATER EFFLUE	NT SAMPLING									
Flow, daily maximum	PARAMETER		Limit	Sample Measurement	UNITS	Monitoring	Reporting				
Carbonaceous Blochemical Oxygen Demand (CBODS) 15 3.7 mg/l  Total Suspended Solids (TSS) -15 6 mg/l  Fecal Coliform Bacteria (FCB) -2,000 -4 colonies/100ml  PH	Flow, Monthly total		REPORT	686,680	Gallons	Total Flow per calendar month					
Total Suspended Solids (TSS)  15 6 mg/l  2,000 44 colonies/100ml pH 6.0-9.0 7.3 s.u.  Total Phosphorus (TP) REPORT 8.1 mg/l  Ammonia Nitrogen (N3-N) + Nitrite Nitrogen ( N02-N) REPORT no report mg/l Nitrate Nitrogen (N03-N) + Nitrite Nitrogen ( N02-N) REPORT no report mg/l Piant Available Nitrogen (PAN) REPORT no report mg/l Piant Available Nitrogen (PAN) REPORT no report mg/l  REPORT no report mg/l Piant Available Nitrogen (PAN) REPORT no report mg/l  REPORT no report mg/l  REPORT no report mg/l  REPORT no report mg/l  Piant Available Nitrogen (PAN)  REPORT no report mg/l  REPORT no report mg/l  REPORT Daily  TOTAL (PRINCIPAL EXECUTIVE OFFICER OFFICER OBJANING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF PRINCIPAL  EXECUTIVE OFFICER OR AUTHORIZED AGENT  MM/DD/NY	Flow, daily maximun		REPORT	28,383	Gallons	Daily					
Fecal Coliform Bacteria (FCB) 2,000 4,4 colonies/100ml pH 6,0-9,0 7,3 s.u.  Total Phosphorus (TP) REPORT 8,1 mg/l Ammonia Nitrogen (N3-N) Nitrate Nitrogen (N3-N) REPORT no report Nitrate Nitrogen (N0-N) + Nitrite Nitrogen (N02-N) REPORT no report	Carbonaceous Biochemical Oxygen De	mand (CBOD5)	15	3.7	mg/l						
PH 6.0 - 9.0 7.3 S.U.  Total Phosphorus (TP) REPORT 8.1 mg/l  Total Kjeldahl Nitrogen (TKN) REPORT no report mg/l  Ammonia Nitrogen (Nd3-N) + Nitrite Nitrogen (NO2-N) REPORT no report mg/l  Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT no report mg/l  Plant Available Nitrogen (PAN)  REPORT no report mg/l  Cadding Rate REPORT no report mg/l  NAME/ITILE PRINCIPAL EXECUTIVE OFFICER OBJUNITY 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 EXECUTIVE OFFICER OR AUTHORIZED AGENT  NOTAL PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  MM/DD/YY  MM/DD/YY	Total Suspended Solids (TSS)		-15	6	mg/i						
Total Phosphorus (TP)  REPORT	Fecal Coliform Bacteria (FCB)		2,000	< 4	colonies/100ml	Grab Sample once per month					
Total Kjeldahl Nitrogen (TKN)  REPORT  no report  mg/l  Ammonia Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)  REPORT  no report  mg/l  Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)  REPORT  no report  mg/l  Plant Available Nitrogen (PAN)  REPORT  no report  mg/l  Loading Rate  REPORT  see attached  gpd/ft 2  Daily  TELEPHONE  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  Kathy Bartlett  COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, I BULIEVE THE AND IMPRISONMENT.  NM/DD/YY  MM/DD/YY  MM/DD/YY  MM/DD/YY	рН		6.0 - 9.0	7.3	S.U.			e			
Ammonia Nitrogen (NHs-N)  REPORT  no report  mg/l  Plant Available Nitrogen (NO <sub>3</sub> -N) + Nitrite Nitrogen (NO <sub>2</sub> -N)  REPORT  REPORT  no report  mg/l  Loading Rate  REPORT  REPORT  see attached  gpd/ft 2  Daily  Daily  NAME/ITITLE 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  Kathy Bartlett  COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.  REPORT  no report  mg/l  grab sample once per quarter  mg/l  Grab sample once per quarter  Baily  TELEPHONE  TELEPHONE  AUTHORIZED AGENT  (479) 530- 5926  MM/DD/YY  MM/DD/YY	Total Phosphorus (TP)		REPORT	8.1	mg/l		following Month				
Nitrate Nitrogen ( NO3-N) + Nitrite Nitrogen ( NO2-N)  REPORT	Total Kjeldah! Nitrogen (TKN)		REPORT	no report	mg/l						
Nitrate Nitrogen ( NO3-N) + Nitrite Nitrogen ( NO2-N)  REPORT  no report  mg/l  Loading Rate  REPORT	Ammonia Nitrogen (NH3-N)		REPORT	no report	mg/l	Grah sample once per quarter					
Loading Rate  REPORT  See attached  Gpd/ft 2  Daily  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  Kathy Bartlett  COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,  TYPED OR PRINTED  REPORT  See attached  Gpd/ft 2  Daily  TELEPHONE  DATE  AUTHORIZED AGENT  (479) 530- 5926  MM/DD/YY	Nitrate Nitrogen ( NO3-N) + Nitrite Nitrog	gen ( NO2-N)	REPORT	no report	mg/l	Stab sample stills per quality					
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-  SIGNATURE OF PRINCIPAL  COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,  TYPED OR PRINTED  INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.  AUTHORIZED AGENT  MM/DD/YY	Plant Available Nitrogen (PAN)		REPORT	no report	mg/l						
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 Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.  SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR SIGNATURE OF PRINCIPAL (479) 530- 5926  MM/DD/YY	Loading Rate		REPORT	see attached	gpd/ft 2	Daily					
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OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF PRINCIPAL (479) 530-  Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, EXECUTIVE OFFICER OR MM/DD/YY  INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AUTHORIZED AGENT MM/DD/YY		SUBMITTED HEREIN;	AND BASED ON MY INQUIRY OF THOSE	Land Holowy	_						
Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, EXECUTIVE OFFICER OR MM/DD/YY  TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.  AUTHORIZED AGENT		OBTAINING THE INF	ORMATION, I BELIEVE THE SUBMITTE	D INFORMATION IS TRUE, A			(479) 530	7/14/2016			
TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.  AUTHORIZED AGENT  MM/DD/YY	Kathy Bartlett	COMPLETE LAM AW	ARE THAT THERE ARE SIGNIFICANT PEN	IALTIES FOR SUBMITTING FALS	E INFORMATION.		5926				
					,			MM/DD/YYYY			
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)	COMMENTS AND EXPLANATION C	_ <u></u>		<del></del>							

WATERFORD ESTATES LOADING RATES									
Zone Identification	GPD/sq 2								
Zone 1A	2,356								
Zone 1B	2,242								
Zone 2A	2,242								
Zone 2B	2,129								
Zone 3A	2,242								
Zone 3B	2,242								
Zone 4A	2,242								
Zone 4B	2,242								
Zone 5A	2,484								
Zone 5B	2,600								
Zone 6A	2,484								
Zone 6B	2,838								

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## 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: 1606020141

Customer Name : GREENFIELD CAP DEV-WATERFORD

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

Report Date : 06/22/16

Sample Date : 06/16/16

Sample Time : 0955

Sample Type : GRAB WATERFORD

Sample From : DOSE TANK EFFLUENT

Collected By: VLP

Delivery By : VLP Work Order :

Purchase Order :

	Quality Assurance				
Analysis				Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes Quantity	Method	% RPD	% Recovery
06/16 0956 VLP	pH	7.3 S.U.	SM 2000 4500-H+ B	0.00	N/A
06/20 900 TSB	Phosphorous, Total (as P)	8.1 mg/L	EPA 365.3	1.83	101.1 *
06/20 1427 JCB	Solids, Total Suspended	$6.0~{ m mg/L}$	SM 1997 2540 D	0.00	N/A *
06/16 1645 TSB	Coliform, Fecal	<pre>&lt; 4 /100ml</pre>	SM 9222 D 1997	0.00	N/A *
06/17 1400 VLP	BOD, Carbonaceous	3.7  mg/L	SM 2001 5210 B	7.34	86.0 *

\* 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

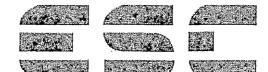
Environmental Services Co., Inc.

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

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: Waterford Estates				Permit/Project #:						Γ		(66					********		
Address:		1695 Electric Aven	ue		Purchase	Order #:								66					
		Springdale AR 727	64									ĺ		AN					
Telephone: (479)751-8868				Sampler N	lame(s):	V.2	\ \\ \/A}	P					9,P	3					
FAX:		(479)757-7650			1		1/-	·SA)						S(2)	08(7	(91)			
-					and Signa								(43)	TS	Ę.	2 +			
ESC Client Nu	ımber:	1886				,						1	F. Coliform(43)	CBOD(70), TSS(28),PAN(99.99)	(A)	A),		İ	
Sar	nple Iden	tification		Sample	Collection			Sample	Containers	5		33		<u> </u>	3(15	(16.			
Identifica	ation	ESC Control#	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	pH(23)	Ш	CBC	NH3(15.A), Phos(25)	TKN(16.A),N+N(91)			
Dose Tank/	Effluent	1606020141	6/16/16	0955	Grab	Water	Teflon	150 ml	none		1	х				-	2.,(\$0)		
Waterford I	Estates	1606020141-F			Grab	Water	whirlpak	300 ml	none/ice		1		х						
		1606020141-P1			Grab	Water	Plastic	1 qt	none/ice		1			х					
		1606020141-P2			Grab	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> ,pH	<2	1				х	х			
																		_	
Relinquished By: (Signa	ature and Printed	Name)	6/16/16	Time 1/30	Received By: (Signature and Printed Name) Date Time				18	Custody Seals: Used? /t/ Intact?						-			
Relinquished By: (Signa	ature and Printed	Name)		Time	Received By: (Si	gnature and Printed	Name)		Date	Date Time			round	: // : /		Intac	17		-
Relinquished By: (Signs	ature and Printed	Name)	Date	Time	Received for Lab	By: (Signature and	Printed Name	<del></del>	( Data)	Tier	Reg			es pro	operly	Spec			
				(	Mineral	By: (Signature and	UNATOT	3) (S	6/15/16	113			Yes	L L	- peny		No		
Comments:		V		-		FLOW DA	\TA	Field Test		Analys		Resu		Resu			Units		
			<del></del>			Analyst: Time:		pH: Temp.:	0956	9/0	P	7.8	<i>+</i> 9	7-1-0		°C	ic	°F	
						Reading:		DO:										·	$\neg$
					Units:		Debris:				0-730510								
Cool all samples to 6 degrees C.					·		Chlorinated	? Yes No	0		This	Doc	umei	nt is	Page	=	of		