

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

PERMITTEE NAME
Legacy Estates Homeowners Association Inc

FACILITY NAME (IF DIFFERENT)
Legacy Estates Wastewater Treatment Facility

PERMIT NO.
4890-WR-2

PERMITTEE ADDRESS
PO Box 8835
Fayetteville AR 72702

FACILITY ADDRESS
13158 Randolph Rd
Tontitown AR


AFIN NO.
72-01642

WASTEWATER EFFLUENT MONITORING PERIOD

MM/DD/YYYY	MM/DD/YYYY
10/1/2019	10/31/2019

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.403726	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.017375	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	2	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	5.91	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	< 1.0	colonies/100ml		
pH	6.0 - 9.0	7.4	s.u.		
Total Phosphorus (TP)	REPORT	5.91	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	43.8	mg/l	Grab sample once per quarter	
Ammonia Nitrogen	REPORT	25.2	mg/l		
Nitrate Nitrogen (NO ₃ -N) + Nitrite Nitrogen (NO ₂ -N)	REPORT	4.13	mg/l		
Plant Available Nitrogen (PAN)	REPORT	34.9	mg/l		
Loading Rate	REPORT	See Attached	gpd/ft ²	Daily	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Kathy Bartlett	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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			(479) 530-5926	11/14/2019
TYPED OR PRINTED				MM/DD/YYYY

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

OCT
2019 LEGACY ESTATES

PERMIT # 4890-WR-1

MAXIMUM DAILY FLOW GPD 17375.00

ZONE IDENTIFICATION	LOADING RATE BY ZONE
A 1	1417
B 1	1306
C 1	774
D 1	1994
E 1	1994
F 1	1080
G 1	941
H 1	972
I 1	1421
J 1	1562
K 1	1876
L 1	2038

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: 1910020133
 Customer Name : LEGACY UTILITY, LLC
 Customer/Permit No. : 2440 / 4890-WR-2 N/A
 Report Date : 10/28/19

Sample Date : 10/18/19
 Sample Time : 0848
 Sample Type : GRAB
 Sample From : EFFLUENT

Collected By: NTR
 Delivery By : NTR
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
10/18	1345	TSB	Ammonia as N, (HACH 10205)	25.20 mg/L		SM 2011 4500-NH3 F	1.14	98.0 *
10/21	1230	TSB	Total Kjeldahl Nitrogen	43.8 mg/L		02/2014 HACH 10242	2.11	95.2 *
10/18	0850	NTR	pH	7.4 S.U.		SM 2011 4500-H+ B	0.00	N/A *
10/21	1544	TSB	Phosphorous, Total (as P)	5.91 mg/L		EPA 365.3	0.90	108.0 *
10/23	1430	TSB	Solids, Total Suspended	5.7 mg/L		SM 2011 2540 D	4.85	N/A *
10/18	1500	TSB	Fecal Coliform (MPN/100mL)	< 1.0 /100mL		06/2012 Colilert18	0.00	0.0 *
10/18	0800	TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	6.84	118.0 *
10/21	1300	TSB	Nitrate + Nitrite	4.13 mg/L		01/2013 HACH 10206	1.82	98.4 *
10/22	1500	TSB	Nitrogen, Plant Available	34.9 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.

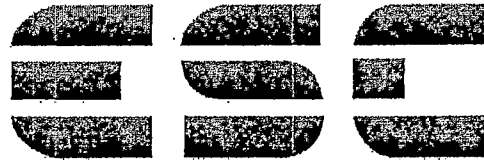
Signature

Environmental Services Co., Inc.

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17375

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

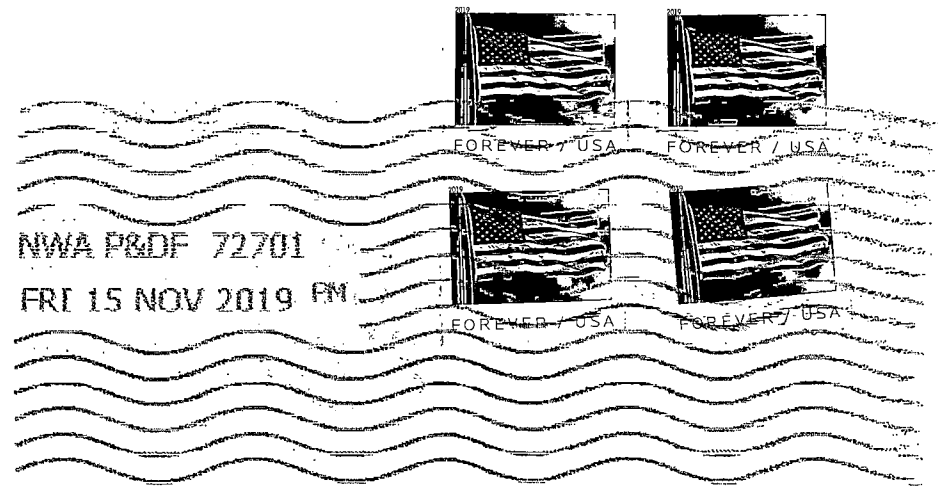
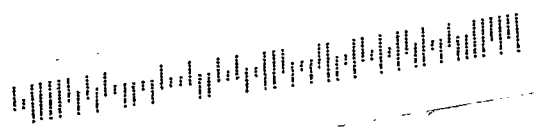
Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information						Project Information				Requested Parameters									
Company Name: Legacy Estates		Address: 13158 Randolph Rd. Tontitown, AR 72770		Telephone: Ken Gregory's Cell- (479) 790-3813		Permit/Project #:		Purchase Order #:		Sampler Name(s): Ned Ryerson		and Signature(s): Ned Ryerson		pH (23)	T-Phos (25)	CBOD (70), TSS (28)	Fecal Coliform (43,IF)	NO ₃ +NO ₂ (91), s-TKN (16)	NH ₃ -N (15.A), PAN (99.99)
ESC Client Number: 2440																			
Sample Identification		Sample Collection				Sample Containers				pH (23)	T-Phos (25)	CBOD (70), TSS (28)	Fecal Coliform (43,IF)	NO ₃ +NO ₂ (91), s-TKN (16)	NH ₃ -N (15.A), PAN (99.99)				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
EFFLUENT	1910020133	10-18-19	0848	GRAB	Water	glass	150 ml	none		X									
EFFLUENT				GRAB	Water	Plastic	8 oz	H ₂ SO ₄ , pH<2	1		X		X	X					
EFFLUENT				GRAB	Water	Plastic	1/2 gal	none/ice	1			X							
EFFLUENT				GRAB	Water	Whirlpak	100 ml	Na ₂ S ₂ O ₃	1				X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		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:		Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>						
Relinquished By: (Signature and Printed Name) Ned Ryerson - Ned Ryerson		Date	Time	Received By: (Signature and Printed Name) Damon Brock - Damon Brock		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>						
Comments:		FLOW DATA		Field Test		Time	Analyst	Result	Result	Units									
Quarterly		Analyst:		pH:		0850	NRL	7.4	7.4	Su									
		Time:		Temp.:		0850	NRL	18.8	18.9	°F									
		Reading:		DO:															
		Units:		Debris:															
Cool all samples to 6 degrees C.						Chlorinated? Yes No		This Document is Page 1 of 1											

NWA Utility Services
PO BOX 9299
Fayetteville, AR

72703



ADEG
Water Division Permits Branch
5301 Northshore Dr
North Little Rock, AR

72118-5317