

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

PERMITTEE NAME
Legacy Estates Utility

FACILITY NAME (IF DIFFERENT)
Legacy Estates Wastewater Treatment Facility

PERMIT NO.
4890-WR-3

PERMITTEE ADDRESS
PO Box 9299
Fayetteville AR 72702

FACILITY ADDRESS
13158 Randolph Rd
Tontitown AR


AFIN NO.
72-01642

WASTEWATER EFFLUENT MONITORING PERIOD
MM/DD/YYYY
4/1/2021

MM/DD/YYYY
4/31/2021

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.388,820	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.015,449	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	30	< 2.0	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	45	39	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	10	colonies/100ml		
pH	6.0 - 9.0	10	s.u.		
Total Phosphorus (TP)	REPORT	7.5	mg/l	Grab sample once per quarter	
Total Kjeldahl Nitrogen (TKN)	REPORT	72.9	mg/l		
Ammonia Nitrogen	REPORT	65.4	mg/l		
Nitrate Nitrogen (NO ₃ -N) + Nitrite Nitrogen (NO ₂ -N)	REPORT	2.59	mg/l		
Plant Available Nitrogen (PAN)	REPORT	70.2	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	5/14/2021
TYPED OR PRINTED				MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

APRIL 2021 LEGACY ESTATES

PERMIT # 4890-WR-3

MAXIMUM DAILY FLOW GPD 15,449

ZONE IDENTIFICATION

LOADING RATE BY ZONE

A 1	1144
B 1	1162
C 1	692
D 1	1550
E 1	1550
F 1	961
G 1	1445
H 1	1279
I 1	1264
J 1	1270
K 1	1802
L 1	1330

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: 2104020063
 Customer Name : LEGACY UTILITY, LLC
 Customer/Permit No. : 2440 / 4890-WR-2 N/A
 Report Date : 04/30/21

Sample Date : 04/22/21
 Sample Time : 1435
 Sample Type : GRAB
 Sample From : EFFLUENT

Collected By: HNS
 Delivery By : HNS
 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>
04/26	1250	HNS	Ammonia as N, (HACH 10205)	65.40 mg/L		SM 2011 4500-NH3 F	2.87	100.0 *
04/30	1000	TWM	Total Kjeldahl Nitrogen	72.9 mg/L		02/2014 HACH 10242	0.68	101.0 *
04/22	1440	HNS	pH	7.5 S.U.		SM 2011 4500-H+ B	0.00	N/A *
04/26	1130	HNS	Phosphorous, Total (as P)	10.00 mg/L		EPA 365.3	2.74	101.0 *
04/26	1050	HNS	Solids, Total Suspended	39.0 mg/L		SM 2011 2540 D	66.67	N/A *
04/22	1645	HNS	Fecal Coliform (MPN/100mL)	10.0 /100ml		06/2012 Colilert18	1.94	N/A *
04/22	1745	NTR	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	33.96	105.3 *
04/26	1340	HNS	Nitrate + Nitrite	2.59 mg/L		01/2013 HACH 10206	2.02	101.0 *
04/30	1335	TWM	Nitrogen, Plant Available	70.2 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.

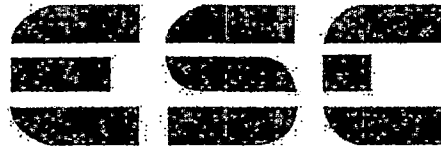
Signature _____

J. Beck
 Environmental Services Co., Inc.

388920 15449

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Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



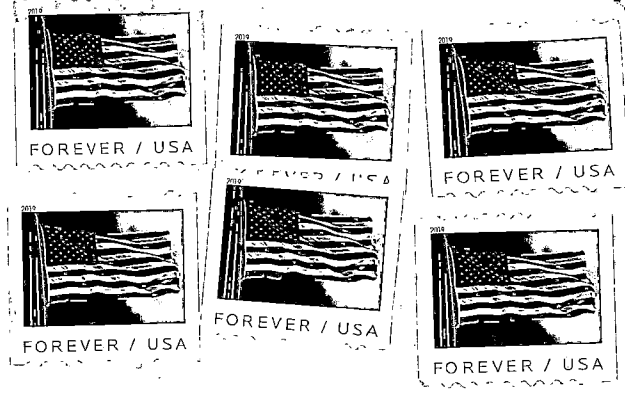
Corporate Office, Little Rock, Arkansas
 501-221-2565


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		Permit/Project #:		Purchase Order #:		Sampler Name(s): <i>Hayden Smith</i>		Fecal Coliform (43.1F)		T-Phos (25)		CBOD (70), TSS (28)		pH (23)	
Telephone: Ken Gregory's Cell- (479) 790-3813		Telephone:		and Signature(s): <i>Hayden Smith</i>													
ESC Client Number: 2440		Sample Identification				Sample Collection			Sample Containers								
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
EFFLUENT	2104020063	4/22/21	1635	GRAB	Water	Sterile	125 ml	Na ₂ S ₂ O ₃	1	X							
EFFLUENT	↓	↓	↓	GRAB	Water	Plastic	8 oz	H ₂ SO ₄ , pH<2	1		X						
EFFLUENT	↓	↓	↓	GRAB	Water	Plastic	1/2 gal	none/ice	1			X					
EFFLUENT	↓	↓	↓	GRAB	Water	Glass	150 ml	none	0				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"/>		Turnaround:		Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>		Were samples properly preserved:	
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time										
<i>Hayden Smith</i>		4-22-21	1625	<i>Hayden Smith</i>		4-22-21	1625										
Comments:				FLOW DATA		Field Test		Time		Analyst		Result		Result		Units	
				Analyst:		pH:		1940		HMS		7.5		7.5			
				Time:		Temp.:								°C		°F	
				Reading:		DO:											
<i>LINS</i>				Units:		Debris:											
				Chlorinated? Yes No													



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

ADEQ
WATER DIVISION/PERMITS BRANCH
5301 Northshore Drive
N Little Rock, AR 72118-5317