

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

PERMITTEE NAME
Bethel Oaks Subdivision
PERMITTEE ADDRESS
PO Box 3008 Fort Smith AR 72901

FACILITY NAME (IF DIFFERENT)
Bethel Oaks Subdivision

PERMIT NO.
4875-WR-1


FACILITY ADDRESS
WA County Hwy 62 at Bethel Blacktop Rd Farmington AR

AFIN NO.
72-01656

WASTEWATER EFFLUENT MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
10/1/2017	10/31/2017

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.157469	MGD	Grab Sample once per month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.005472	MGD		
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l		
Total Suspended Solids (TSS)	15	6.7	mg/l		
Fecal Coliform Bacteria (FCB)	7,800	< 4	colonies/100ml		
pH	6.0 - 9.0	7.3	s.u.		
Total Phosphorus (TP)	REPORT	6.8	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	33.7	mg/l		
Ammonia Nitrogen	REPORT	32.2	mg/l		
Nitrate Nitrogen (NO3-N)	REPORT	11.8	mg/l		
Nitrite Nitrogen (NO2-N)	REPORT	0.094	mg/l		
Plant Available Nitrogen (PAN)	REPORT	44.5	mg/l		
Total Solids	REPORT	0.033	Percentage (%)		
Loading Rate	0.138	See Attached	gpd/ft 2		

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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			(479) 530-5926	11/10/2017
TYPED OR PRINTED				MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

Oct 2017 BETHEL OAKS LOADING RATES 5,472 Max Day Flow

Zone Identification	GPD/sq 2
Zone 1	755
Zone 2	755
Zone 3	755
Zone 4	755
Zone 5	755
Zone 6	755
Zone 7	755
Zone 8	755
Zone 9	755
Zone 10	755
Zone 11	755
Zone 12	755

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: 1710020215	Sample Date : 10/20/17	Collected By: JCB
Customer Name : GREENFIELD CAP DEV-BETHEL OAKS	Sample Time : 1400	Delivery By : JCB
Customer/Permit No. : 1855 / 4875-WR-2	Sample Type : GRAB	Work Order :
Report Date : 10/27/17	Sample From : EFFLUENT	Purchase Order :

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/20	1300	TSB	Ammonia Nitrogen	32.2 mg/L			SM 1997 4500-NH3 F	0.00	99.1 *
10/26	0800	TSB	Total Kjeldahl Nitrogen	33.7 mg/L			02/2014 HACH 10242	0.00	91.3 *
10/24	1500	TSB	Nitrate Nitrogen	11.80 mg/L			01/2013 HACH 10206	0.99	100.5 *
10/23	1400	AEU	Nitrite Nitrogen	0.094 mg/L			06/2017 HACH 10207	1.23	99.7
10/20	1400	JCB	pH	7.3 S.U.			SM 2000 4500-H+ B	0.00	N/A
10/23	1500	TSB	Phosphorous, Total (as P)	6.8 mg/L			EPA 365.3	1.55	99.7 *
10/24	1650	AEU	Solids, Total Suspended	6.7 mg/L			SM 1997 2540 D	1.55	N/A *
10/20	1500	JCB	Coliform, Fecal	< 4 /100ml			SM 9222 D 1997	7.41	N/A *
10/20	1400	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	18.85	98.8 *
10/23	1630	AEU	Solids, % Total by mass	0.033 %			SM 1997 2540 G	9.23	N/A
10/27	0900	JCB	Nitrogen, Plant Available	44.5 mg/L			SM 1997 4500-N		
10/20	1400	JCB	Sample Collection/Travel	1 each					

* 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 Richard Brown
 Environmental Services Co., Inc.

