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Form Approved OMB No. 2040-0003 Approval Expires 7-31-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY								A	Approvai Expires 7-31-83																				
Section A: National Data System Coding																													
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	Permit No. AR0020605
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS DETAILS:	ON ATTACHED <u>No</u>)
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	$\square Y \square N \blacksquare NA$
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	■ Y □N □ NA
4. ALL DISCHARGES ARE PERMITTED	\blacksquare Y \square N \square NA
SECTION B – RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT DETAILS: □S ■ M □ U □ NA (FURTHER EXPLANATION	N ATTACHED <u>ves</u>)
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.	
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.	S ■ M □ U □ NA
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	■Y □N □ NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	■Y □N □ NA
c) ANALYTICAL METHODS AND TECHNIQUES.	□Y ■N □ NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	■Y □N □ NA
e) DATES AND TIMES OF ANALYSES.	■Y □N □ NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	■Y□N□ NA
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.	
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.	S 🗆 M 🗆 U 🗆 NA
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.	■Y □N □NA
SECTION C – OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED DETAILS: □ S ■ M □ U □ NA (FURTHER EXPLANATION A	ATTACHED <u>ves</u>)
1. TREATMENT UNITS PROPERLY OPERATED. ■ S	
2. TREATMENT UNITS PROPERLY MAINTAINED. □ S	■ M □ U □ NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED. ■ S	
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. ■ S	
5. ALL NEEDED TREATMENT UNITS IN SERVICE. ■ S	
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. ■ S	
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED. □ S	
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	\blacksquare Y \square N \square NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	$\blacksquare Y \square N \square NA$

PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.

 \blacksquare Y \square N \square NA

		PERMIT NO. AR0020605
SECTION C – OPERATIONS AND MAINTENANCE (CONT'D)		
9.HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE PAST YEAR? IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	□ '	Y □ N ■ NA Y □ N ■ NA Y □ N ■ NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?		Y ■ N □ NA Y □ N ■ NA
SECTION D – SAMPLING		
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS. □ S ■ M □ U □ NA (FURTHER EXPLANAT) DETAILS:	ON .	ATTACHED <u>ves</u>).
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	- 3	Y □ N □ NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	= 3	Y □ N □ NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	- '	Y □ N □ NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	- '	Y □ N □ NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	- '	Y □ N □ NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	<u> </u>	Y ■ N □ NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	- '	Y 🗆 N 🗆 NA
b) PROPER PRESERVATION TECHNIQUES USED.	- '	Y 🗆 N 🗆 NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.		Y ■ N □ NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	.	Y 🗆 N 🗆 NA
SECTION E – FLOW MEASUREMENT		
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. □ S □ M ■ U □ NA (FURTHER EXPLANATIO	N A	TTACHED <u>ves)</u>
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE 4.125 foot rectangular weir without end contractions		Y 🗆 N 🗆 NA
2. FLOW MEASURED AT ALL OUTFALLS AS REQUIRED.		Y 🗆 N 🗆 NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAIN	ED 🗆	IY ■N □NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION 1-14-06 PRECORDS MAINTAINED OF CALIBRATION PROCEDURES. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.		Y ■ N □ NA Y ■ N □ NA Y ■ N □ NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.		Y □N □NA
6. HEAD MEASURED AT PROPER LOCATION.		Y □ N □ NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.		Y □ N □ NA
SECTION F – LABORATORY		
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. DETAILS: □ S ■ M □ U □ NA (FURTHER EXPLANATION	ATT	'ACHED <u>yes)</u>
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)		У П N П NA

						Permit No. AR002	0605
SECTION F – LABORATO	RY (CONT'D)						
2. IF ALTERNATIVE ANA	LYTICAL PROCED	URES ARE USED, P	ROPER APPROVAL	. HAS BEEN OBTAI	NED □Y□N	■ NA	
3. SATISFACTORY CALIB		•			■S □ M □ U	□NA	
4. QUALITY CONTROL PI				•	□S ■M □U		
5. DUPLICATE SAMPLES			TIME.		□Y■N		
6. SPIKED SAMPLES ARE			•				
7. COMMERCIAL LABOR					■Y□N		
LAB NAME Sorrells R							
LAB ADDRESS 8002 S		e Rock, AR					
PARAMETERS PERFOR							
TAKAMETEKS TEKTOK	TOTAL DIO MONITORI	<u> </u>					
SECTION G - EFFLUENT	T/RECEIVING WAT	ERS OBSERVATIO	N. ■S□M□U	J □ NA (FURTHI	ER EXPLANATION	ATTACHED no).	T
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHE R
001	none	none	trace	none	none	trace green	-
	-	-	-	-	-	-	-
RECEIVING WATER OB	SERVATIONS <u>The</u>	Ouachita River ap	opeared normal at	this time.			
SECTION H – SLUDGE I	DISPOSAL						
SLUDGE DISPOSAL ME DETAILS:	ETS PERMIT REQU	UREMENTS.		NA (FURTHER EX	PLANATION ATTA	CHED <u>no</u>).	
1. SLUDGE MANAGEMI	ENT ADEQUATE TO) MAINTAIN EFFLU	JENT QUALITY.		■S□M□U	J □ NA	
2. SLUDGE RECORDS M	IAINTAINED AS RE	QUIRED BY 40 CFF	R 503.			J ■ NA	
3. FOR LAND APPLIED	SLUDGE, TYPE OF	LAND APPLIED TO):(e.g.,	FOREST, AGRICUI	LTURAL, PUBLIC	CONTACT SITE)	
SECTION I – SAMPLING	G INSPECTION PRO	CEDURES (FURT	HER EXPLANATIO	ON ATTACHED no).		
1. SAMPLES OBTAINED	THIS INSPECTION				□Y	N □ NA	
2. TYPE OF SAMPLE OF	BTAINED						
GRAB	COMPO	OSITE SAMPLE	METHOD	FREQUENCY			
3. SAMPLES PRESERVE	ZD.					N ■ NA	
4. FLOW PROPORTION	ED SAMPLES OBTA	AINED.			□У□	N ■ NA	
5. SAMPLE OBTAINED I	FROM FACILITY'S	SAMPLING DEVIC	Е.			N ■ NA	
6. SAMPLE REPRESENT	CATIVE OF VOLUM	E AND MATURE O	F DISCHARGE.		□У□	N ■ NA	
7. SAMPLE SPLIT WITH	I PERMITTEE.					N ■ NA	
8. CHAIN-OF-CUSTODY	PROCEDURES EM	PLOYED.			□У□	N ■ NA	
9 SAMPLES COLLECTE	ED IN ACCORDANC	E WITH PERMIT			пуп	N ■ NA	

DMR Calculation Check

Reporting Period: from 07 03 01 to 07 03 31 vear month day

Parameter Checked: <u>TSS, mg/L</u>

Quantity

	Monthly Avg.	7 Day avg.
Reported Value:	16.3	35.3
Calculated Value:	16.3	35.3
Permit Value:	90	135

If calculated value does not equal reported value, explain:

Same

Flow Calculation Sheet

Field Data: Date <u>6-28-07</u> Time <u>1322</u> hrs.

Head <u>0.2</u> feet

Type & Size of Flow Monitoring Device 4.125 Rectangular Weir

Name & Model of Flow Monitoring Device Milltronics Ultrasonic Flow Meter

1.5

Recorded Flow at date & time listed above 0.75 MGD

Reference for Flow Calculations <u>Isco Open Channel Flow Measurement Handbook</u>

Calculations:

-- MCD O 9 159111

For MGD Q=2.152LH L=length of weir in feet

H=head on the weir

1.5

Q= 2.152(4.125)0.2

Q= 2.152(4.125)0.0894

Q=0.794 MGD

% error = $\frac{\text{Recorded value} - \text{calculated value}}{\text{(100)}}$

calculated value

% error = $\frac{.75 - .794}{.794}$ x 100

% error = -5.54 % error

Further Explanations

- **Section B(2)** The following required information is not being recorded for the grab samples: Analytical method and reference for each individual parameter. Specifically, the methods were not reference pH, and Chlorine.
- **Section C(2)** The Limna System had high concentrations of Marsh Pennywort. According to the operator, they are having a difficult time trying to control it. He had recently sprayed 2-4-D on the Pennywort in an effort to kill it back.
- **Section C(2)** The pump used to draw water to the chlorination system has a leaking seal. This leak bypasses chlorination and is discharged onto the ground.
- **Section D(6c)** The fecal coliform sample is not being collected properly. Currently, the sample is being collected utilizing an unsterilized plastic funnel.
- **Section E (3&4)** The flow measuring device has not been calibrated on an annual basis. The last calibration was performed on 1/14/06. Furthermore, monthly flow calibration checks are not being performed as required to ensure 10% accuracy to true value.
- **Section F(5)** Duplication of the pH analysis and the dissolved oxygen analysis is not being performed at a minimum frequency of 10% of each set of samples analyzed.



July 2, 2007

Dorinda Suitor, Utilities Manager City of Arkadelphia P.O. Box 151 Arkadelphia, AR 71923

Re: AFIN: No. 10-00047 NPDES Permit No. AR0020605

Dear Ms. Suitor:

On June 28, 2007, I performed a routine permit compliance evaluation inspection of your wastewater facility in accordance with the provisions of the federal Clean Water Act, the Arkansas Water and Air Pollution Control Act and the regulations promulgated thereunder. This inspection revealed the following violations:

- 1. The following required information is not being recorded for the grab samples: Analytical method and reference used for the analysis.
- 2. The fecal coliform sample is not being collected properly. Currently, the sample is being collected utilizing an unsterilized plastic funnel.
- 3. The flow measuring device has not been calibrated on an annual basis. The last calibration was performed on 1/14/06. Furthermore, monthly flow calibration checks are not being performed as required to ensure 10% accuracy to true value.
- 4. Duplication of the pH analysis and the dissolved oxygen analysis is not being performed at a minimum frequency of 10% of each set of samples analyzed.
- 5. The pump used to draw water to the chlorination system has a leaking seal. This leak bypasses chlorination and is discharged onto the ground.

The aforementioned violations require your immediate attention. Please submit a written response to these findings to the NPDES Section of this Department when the violations have been corrected. This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible and the written response is due by July 25, 2007.

AR0020605 7/2/2007 Page 2

If you have any questions concerning this inspection, please feel free to contact me at (501) 520-0541.

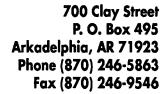
Sincerely,

Jin McSwain

District Field Inspector

Water Division

cc: NPDES Branch





November 1, 2007

Mr. Greg Hurley NPDES Enforcement Section Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, AR 72118-5317

RE: NPDES Permit NO: AR0020605 AFIN: 10-00061

Dear Mr. Hurley:

and straight

In regards to comments of our routine permit compliance evaluation inspection of Arkadelphia's wastewater facility I have the following response to Mr. McSwain's comments:

- 1. Laboratory personnel have proposed that the funnel used in collecting the fecal coliform grab samples will be kept in a separate container and sprayed with alcohol and allowed to air dry immediately before use. If this is not satisfactory please advise.
- 2. Staff has scheduled with Instrument and Supply to have the flow meter calibrated early next week.
- 3. Staff believes that samples are duplicated more than 10% of the time. Duplicates were not being performed on DO and staff has added DO to the duplicates being performed.
- 4. The water coming from the pump used to draw water to the chlorination system is actually chlorinated water. To prevent the water from running onto the ground staff is constructing a small retaining wall that will cause the seepage from the pump to run back into the chlorine contact basin. The pump has a packing seal and not a mechanical seal, therefore it seeps.

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I trust that staff's corrective actions will satisfy. If you need anything further please let me know.

Sincerely,

Dorinda Suitor

Manager



700 Clay Street • P. O. Box 495 Arkadelphia, Arkansas 71923 136 7721 00.410 NOV 01 07 7029 ARKADELPHIA AR 71923

Mr. Greg Hurley NPDES Enforcement Section Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, AR 72118-5317



POST NOV 1 9 2007 MARKED 700 Clay Street P. O. Box 495 Arkadelphia, AR 71923 Phone (870) 246-5863

Fax (870) 246-9546

November 25, 2007

Mr. Dennis Benson
Technical Assistance Manager
NPDES Enforcement Section
Arkansas Department of Environmental Quality
5301 North Shore Drive
North Little Rock, AR 72118-5317

RE: NPDES Permit # AR0020605 and AFIN: 10-00061

Dear Mr. Benson:

I apologize for the oversight of not properly addressing each item in the first response. I trust that this letter will add closure to the issues.

- 1. Staff has been instructed to include the analytical method used when recording grab samples for pH and DO, this procedure was intuited after the inspector's visit..
- 2. Staff is currently disinfecting the funnel with alcohol and storing it in a separate container. Other methods of sampling and collection are being reviewed.
- 3. Staff will establish monthly calibration checks for accuracy of the flow meter.

If you have further questions or need to contact me I can be reached at 870-246-5863 or by e-mail dsuitor@cityofarkadelphia.com.

Sincerely,

Dorinda Suitor

Manager