Ş	SEPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D.C. 20460								Form Approved OMB No. 2040-0003 Approval Expires 7-31-85														
	NPDES			-	-						Rei	or	·t										
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	Section A: National Data System Coding           Transaction Code         NPDES         yr/mo/day         Inspector         Fac Type																						
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ĺ	Inspection Work Days	I	Facility	Evalua	ntion F	Rating		1	BI		QA							Reserved					
	67 69		70	) 3				71	Ν	72	Ν	73			74	75							80
							Se	ection	B: Fa	cility	Data												
<i>inclı</i> Ci	ne and Location of Facility Inspected ude POTW name and NPDES permit ty of Fayetteville			rial use	ers dis	scharg	ging to	o POT	TW, als	80		ry Tii 820/0						Per		ffect /01/0	ive Da )6	te	
	00 North Fox Hunter Rd. yetteville, AR 72701											it Tim 545/0		-				Per		xpira /31/0	ation D )11	ate	
	ne(s) of On-Site Representative(s)/Ti yan Tran, Project Manager, 479-443						;)				ı						GF					discha	arge at White
Dav City 11	ne, Address of Responsible Official/ id Jurgens/Water and Wastewater Di of Fayetteville 3 West Mountain yetteville, AR 72701						75-82	257			Yes		Con	tacted No	X	]		N 3 W-9 tfall 00 eek N 3	6-05-10 4-05-0 2@diso 66-05-2 94-06-3	1.3 charg 4.0	e at trib	outary 1	to Mudd
			(S	= Satis					E <b>valua</b> l, U = ¹						uatec	l)							
s	Permit	S	Flow	v Meas	urem	lent			S	Operations & Maintenance				М	Samping								
S	Records/Reports	M	Self-	Monito	oring	rrogram			S	Sludge Handling/Disposal			N	Pollution Prevention									
S M	Facility Site Review	N M	Com	pliance	e Sche	edules	dules Pretreatment				N	Multimedia											
141	Effluent/Receiving Waters	Effluent/Receiving Waters M Laboratory N Storm Water					Other:																
for an	Section D: Summary of Findings/Comments (Attach additional sheets if necessary) DMRs for July, August and September 2006, flow and lab analysis datasheets for July & August 2006, chain-of-custody reports for August 2006, biomonitoring results (composite Outfall 001 & Outfall 002 samples collected during week beginning 7/16/06), and 40 CFR 122 Table II and Table III toxic pollutant test results were reviewed. No final effluent limit excursions were noted for these months.																						
	Name(s) and Signature(s) of Inspector(s)     Agency/Office/Telephone/Fax     Date       John Fazio     Arkansas Dept. of Environmental Quality     04/04/07       John 749.7     479-267-0816/479-267-0819     04/04/07																						
Dal	e Washam																						
Sig	Signature of Reviewer     Agency/Office/Phone and Fax Numbers     Date																						

EPA Form 3560-3 (Rev. 9-94) Previous editions are obsolete.

	PERMIT NO. AR0020010
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS $\blacksquare S \Box M \Box U \Box NA$ DETAILS:	(FURTHER EXPLANATION ATTACHED NO)
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	■Y□N □NA
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES None	□Y□N ■NA
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	■Y□N □NA
4. ALL DISCHARGES ARE PERMITTED	■Y□N □NA
SECTION B - RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT.	(FURTHER EXPLANATION ATTACHED $NO$ )
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.	■Y□N □NA
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	
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. Contract Laboratory	■S□M □U □NA
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. $\blacksquare S \Box M \Box U \Box NA$ DETAILS:	(FURTHER EXPLANATION ATTACHED NO)
1. TREATMENT UNITS PROPERLY OPERATED.	■S□M□U □NA
2. TREATMENT UNITS PROPERLY MAINTAINED	■S□M□U □NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED. (Standby Generator)	■S□M□U □NA
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. (SCADA)	■S□M□U □NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE.	■S□M□U □NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. 7 Class I; 7 Class II; 6 Class III; 7 Class IV	■S□M□U □NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	■S□M□U □NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	■ Y □ N □ NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	■Y□N □NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	□Y □N ■NE

	PERMIT NO. AR0020010
SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)	
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? ( IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	Overflows) ■ Y □ N □ NA ■ 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 I DETAILS: (Outfall 001 - White River)	EXPLANATION ATTACHED Yes ).
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	■Y □N □NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	■ 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	■Y □N □NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	■Y □N □NA
b) PROPER PRESERVATION TECHNIQUES USED. Improper techniques according to some COC reports.	□Y ■N □NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136	■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.	(FURTHER EXPLANATION ATTACHED <u>NO</u> )
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE	■ Y □ N □ NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	■ Y □ N □ NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	■Y □N □NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION <u>(12/14/06)</u> RECORDS 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
	PAGE 3 OF 5

	PERMIT NO. AR0020010
SECTION D - SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER E DETAILS: Outfall 002 - Mudd Creek	EXPLANATION ATTACHED Yes ).
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	■Y □N □NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	■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	■Y □N □NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	■Y □N □NA
b) PROPER PRESERVATION TECHNIQUES USED. Improper techniques according to some COC reports.	□Y■N □NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136	■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.         DETAILS:       (Outfall 002 - Mudd Creek)	FURTHER EXPLANATION ATTACHED $NO$ )
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICEUse a magmeter for flow measurement	■Y □N □NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	■Y □N □NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	■Y □N □NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION <u>(12/15/06)</u> RECORDS 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. $\Box S \blacksquare M \Box U \Box NA$ (DETAILS:	(FURTHER EXPLANATION ATTACHED Yes)
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	■ Y □ N □ NA

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						PERMIT	NO. AR0020010	
SECTION F - LABOR	ATORY (CONT'D)							
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED								
3. SATISFACTORY C		□S■M□U □NA						
4. QUALITY CONTRO	DL PROCEDURES ADE	EQUATE.				<b>■</b> S □	M 🗆 U 🗆 NA	
5. DUPLICATE SAMP	LES ARE ANALYZED.	<u>10 - 100</u> % OF THE T	IME.			■Y□	□N □NA	
6. SPIKED SAMPLES	ARE ANALYZED. 10	<u>– 100_</u> % of the time				■Y□	□N □NA	
7. COMMERCIAL LAE	BORATORY USED.					■Y□	□ N □ NA	
LAB NAME       American Interplex       EcoTox, Arkansas State University         LAB ADDRESS       8600 Kanis Road, Little Rock, AR 72204       P.O. Box 847, State University, AR 72467         PARAMETERS       PERFORMED       Sludge – table III metals, organics, PCB, TCLP, Cn, phenol, Hg, NO3, NO2, TKN       Biomonitoring         Water – table II and table III parameters       Note: No								
SECTION G - EFFLUI	ENT/RECEIVING WAT	ERS OBSERVATIONS		□S ■M□U □	NA (FURTHER E	XPLANATION A	ttached <u>No</u> ).	
Based on visual	observations or	ıly.						
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER	
001	None	None	Trace	Trace	None	Clear	Algae	
002	None	None	Trace	Trace	None	Clear	Algae	
Comments: Co	nsiderable green a	and black algae ob	served downstrea	am of both outfalls.	Little algae observe	ed above ou	utfalls.	
SECTION H - SLUDG	E DISPOSAL							
	MEETS PERMIT REQ udge is being disp	UIREMENTS. osed of at a landfill	in Oklahoma.)	■S□M□U		R EXPLANATION	NATTACHED <u>NO</u> ).	
1. SLUDGE MANAGE	EMENT ADEQUATE TO	D MAINTAIN EFFLUEN	T QUALITY.			S□M□	U 🗆 NA	
2. SLUDGE RECORD	OS MAINTAINED AS R	EQUIRED BY 40 CFR 5	503.		[	⊐ S ⊡ M ⊡	U 🔳 NA	
3. FOR LAND APPLIE	ED SLUDGE, TYPE OF	LAND APPLIED TO:	N/A (e.g., FOREST,	AGRICULTURAL, PUB	LIC CONTACT SITE)			
SECTION I - SAMPLI	NG INSPECTION PRO	DCEDURES		(FL	JRTHER EXPLANATION ATT	ached <u>No</u> )		
1. SAMPLES OBTAIN	ED THIS INSPECTIO	N.				□ Y ■ I	N 🗆 NA	
2. TYPE OF SAMPLE	OBTAINED							
GRAB COMPOSITE SAMPLE METHOD FREQUENCY								
3. SAMPLES PRESE	3. SAMPLES PRESERVED. □ Y □ N ■ NA							
4. FLOW PROPORTI	ONED SAMPLES OBT	AINED.					□ N ■ NA	
5. SAMPLE OBTAINE	ED FROM FACILITY'S	SAMPLING DEVICE.					] N ■ NA	
		IE AND NATURE OF D	ISCHARGE.				] N ■ NA	
7. SAMPLE SPLIT W								
	DY PROCEDURES EI							
9. SAMPLES COLLE	CTED IN ACCORDANC	CE WITH PERMIT.				ΠΥΙ	□ N ■ NA	

AR0020010 2/3/06 Attachment # 1

## FLOW CALCULATION SHEET

OUTFALL 001 (White River)

Field Data: Date <u>3/22/07</u> Time <u>1037</u>
Head in Inches <u>10</u> = <u>0.8333</u> ft.
Type & Size of Primary Flow Measurement Device
Name & Model of Secondary Flow Measurement Device <u>Millitronics OCM III Open Channel Meter</u>
Recorded Flow at date & time listed above 5.84 MGD

Flows are calculated from flow charts taken from the ISCO Open Channel Flow Measurement Handbook, 5<sup>th</sup> Ed.

0.83 ft. = 5.79 M.G.D. Calculated Flow

% error = <u>recorded value - calculated value</u> x 100 calculated value

% error = 5.84 MGD - 5.793 MGD x 100 5.793 MGD

% error = 0.0081 x 100 = 0.81

% error = <u>0.81 %</u>

## **DMR Calculation Check – Outfall 002**

<b>Reporting Period:</b>	From <u>2006</u>	August	1	To <u>20</u>	006	August	31
	Year	Month	Day	Yea	ar	Month	Day

Parameter Checked: <u>Total Phosphorus</u>

	Loading Mass Monthly Avg. (lbs/ day)	Concentration Monthly Avgmg/L	7-day Avg- mg/L
Reported Value:	9	0.2	0.2
Calculated Value:	9	0.2	0.2
Permit Value:	50	1.0	2.0

If calculated value does not equal reported value, explain:

## NPDES Compliance Inspection Report Further Explanation

Page <u>3 & 4 of 5</u>

Section <u>D</u>

Detail <u>6 b</u>

Chain-of-custody (COC) reports suggest, in some cases, inappropriate preservation methods for certain parameters. For example, on 08/01/06 it appears that Sample ID# 06-0779 parameters - TSS, CBOD, NH<sub>3</sub>-N, and PO<sub>4</sub> - were all preserved with both refrigeration and H<sub>2</sub>SO<sub>4</sub>.

In addition, it is unclear from some COC reports if samples were preserved during apparent extended periods between sample collection times and the times the samples were received by the lab. For example, on 08/02/06, it appears that composite Sample ID# 06-0782 was collected at 1200 and received by the lab at 1700.

Page <u>5 of 5</u>

Section <u>F</u>

Detail <u>3</u>

Some of the laboratory thermometers have not been calibrated against an NBS traceable thermometer within the last 12 months.



April 10, 2007

Mr. David Jurgens, Water & Wastewater Director City of Fayetteville 113 West Mountain Fayetteville, Arkansas 72701

RE: AFIN: 72-00102

NPDES Permit No.: AR0020010

Dear Mr. Jurgens:

On March 22, 2007, Dale Washam, Inspector Supervisor, and I performed a routine compliance inspection of the Fayetteville waste water treatment 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. Chain-of-custody (COC) reports suggest, in some cases, inappropriate preservation methods for certain parameters. For example, on 08/01/06, it appears that Sample ID# 06-0779 parameters TSS, CBOD, NH<sub>3</sub>-N, and PO<sub>4</sub> were all preserved with both refrigeration and H<sub>2</sub>SO<sub>4</sub>. This is in violation of Part II.C.3 of the permit. Discussion with laboratory personnel revealed that appropriate methods of preservation had been used for each parameter, and that modification of the means of recording this information on the COC forms will remedy this matter. In addition, it is unclear from some COC reports if samples were preserved during apparent extended periods between the sample collection times and the times the samples were received by the lab. For instance, on 08/02/06, it appears that composite Sample ID# 06-0782 was collected at 1200 and was received by the lab at 1700.
- 2. Some of the laboratory thermometers have not been calibrated against an NBS traceable thermometer within the last 12 months. This calibration is required annually.

Although monthly concentration averages were found to be calculated weighted by flow rather than by arithmetic average, comparison of the results using both methods were not significant for the months reviewed. Lab analyses were reviewed for July and August 2006. The results of calculations using the arithmetic average method were consistent with the data reported on the July and August 2006 discharge monitoring reports, however, please note that your permit requires that this calculation be performed using an arithmetic average.

Page Two Mr. David Jurgens April 10, 2007 ARR0020010

The above items require your immediate attention. Please submit a written response to these findings to the Enforcement Branch of the Water Division when the violations have been corrected. This response should contain documentation describing the course of action taken to correct the items noted. This corrective action should be completed as soon as possible, and the written response is due by April 30, 2007.

If I can be any assistance, please contact me at 479-267-0816.

Sincerely,

John Fazio District Field Inspector Water Division

cc: Enforcement Branch Permit Branch