

CITY OF FAYETTEVILLE, AR

PAUL R. NOLAND WASTEWATER TREATMENT FACILITY INDUSTRIAL PRETREATMENT PROGRAM ANNUAL REPORT

NPDES PERMIT # AR0020010

PROGRAM YEAR
January 2005 - December 2005

Submitted by:

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- A. POTW Monitoring Program
- B. Monitoring Results
- C. Updated Significant Industrial User List
- D. Pretreatment Performance Summary
- E. Enforcement Actions
- F. Public Notice

PRETREATMENT PROGRAM STATUS REPORT

Overview

Operations Management International, Inc. has a contract with the City of Fayetteville to administer the industrial pretreatment program.

The Industrial Pretreatment Program included 9 permitted significant industrial users this pretreatment year; five of these are metal-based categorical users. The City collected over \$328,000 from the food industries participating in the surcharge program for excess BOD and TSS loading. Along with administering the program, industrial pretreatment personnel are the liaisons who provide education and training for industrial users and the general public.

In addition to industrial discharges to the sewer, hauled septic tank and portable toilet waste are discharged to the head of the POTW. A total of 282 loads of hauled waste were accepted from 8 haulers. The City collected \$14,100 through the hauled waste program.

POTW Monitoring Efforts

A chart summarizing the POTW monitoring program is contained in Attachment A. Samples of influent, effluent, and sludge were analyzed to fulfill requirements contained in NPDES Permit # AR0020010, Part III, 7, c. Results from monitoring conducted in the program year are contained in Attachment B.

Control Mechanisms

There were 9 permitted industries in Fayetteville, Arkansas. A summary of all control mechanism efforts is contained in Attachment C, the Updated Significant Industrial User List. The City collected \$1000 through Industrial Wastewater Discharge Permits fees and liquid waste hauler application fees.

No significant industrial user's authorization to discharge was terminated or revoked.

The four metal finishing CIU's have permit concentration limits from 40 CFR 433. They also have mass limits for the categorical pollutants based on which ever is most restrictive, performance or allocation. Elkhart Products Corporation is a 40 CFR 468 copper former so permit limits are solely mass limits based on which ever is most restrictive, performance, allocation or categorical. Comparison of limits resulted in performance based mass limits in the CIU permits except the following are allocated limits: Elkhart's nickel, K-D Tools' nickel, and Superior's nickel and cyanide; Elkhart's lead and oil and grease limits are categorical limits. No industrial permits were subject to only local limits.

Inspection and Monitoring of SIU's

Inspections were conducted and monitoring was performed on all nine permitted industries at least once during the pretreatment year. A summary of inspection and monitoring efforts are

Fayetteville, Arkansas

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Fayetteville, Arkansas

contained in Attachment C, the Updated Significant Industrial User List and Attachment D, the Pretreatment Performance Summary.

Monitoring was performed on three permitted non-categorical industries for surcharge purposes.

Compliance Status of SIUs

To comply with NPDES permit No. AR0020010 for the City of Fayetteville, Arkansas, Paul R. Noland Wastewater Treatment Facility, part III, 7, d, a review to determine compliance status was conducted on the collective data for each of the nine permitted industries. The criteria in 40 CFR Part 403.8(f)(2)(vii) were used to determine significant noncompliance. Attachment C, Updated Significant Industrial User List, contains a summary of the results and compliance status for significant industrial users; Attachment D is the pretreatment Performance Summary; Attachment E is a summary of enforcement actions taken; Attachment F contains the Public Notice.

POTW Compliance Status

The POTW did not experience any interference, pass through, upset, or POTW permit violations known or suspected to be caused by industrial contributors.

The Industrial Pretreatment Program, the sewer use ordinance, and the technically based local limits are approved. The sewer use ordinance is codified. No changes were made during the pretreatment year.

In 2004, third quarter biomonitoring showed lethal and sublethal effects. The effluent passed for the quarter after retesting. The priority pollutant scan run at the same time as the initial test showed interference, and lindane and heptachlor were quantifiable. As required, quarterly sampling for lindane and heptachlor was instituted. This sampling was completed in 2005 as the next 4 quarters showed nondetectable results for both pollutants.

Change in Pollutants

Average influent BOD loading increased in 2005 from 18000 pounds per day in January to 28000 pounds per day in November. This is due to higher BOD concentrations, which were averaging 200 mg/L and then averaged 250 mg/L from mid-2005 on. The food-processing industries account for a portion of this increased loading. Growth, however, including restaurants and water conservation fixtures and equipment, may be responsible for a majority of the elevated loadings.

Lindane and heptachlor were at detectable levels in 3rd quarter 2004. The next four quarterly samples showed nondetectable levels for both pollutants and sampling was completed.

There was no significant change in other pollutants in the pretreatment year.

Septic haulers brought 282 loads (405,000 gallons) of septic tank and portable toilet waste to the

Fayetteville, Arkansas

POTW in 2005, down from 351 loads (445,160 gallons) in 2004.

Accomplishments

No new Significant Industrial Users were added to the program in 2005. Review of new customer lists from the city business office, building permit lists including new commercial, commercial alterations/additions, and miscellaneous building permits resulted in no new significant industrial users or modifications to current permits.

Operator 10, which utilizes a database system, is used in conjunction with Excel spreadsheets for industrial pretreatment data tracking and handling. We use OMI's Industrial Pretreatment Quality Control (IPQC) workbook for tracking influent, domestic, and industrial loading. The IPQC workbook displays graphs that compare the average monthly influent loading to the maximum allowable headworks loading and to statistical warning and control limits. The graphs make loading trends and potential problems more immediately conspicuous than reviewing columns of data.

Approximately 30 tours of the wastewater treatment plant were conducted in 2005. As usual, tours were given to Fayetteville elementary schools, Fayetteville High School science classes, and University of Arkansas Civil Engineering classes. In addition, several home school groups and a number of other civic groups, engineering teams, and individuals visited the facility. We also hosted several students from Ramay and Woodland Junior High Schools as part of the Vital Link program giving students valuable exposure to work environments. Another educational tool of which we are proud to continue exhibiting has been the trailer-mounted 9-hole miniature golf course, with each hole patterned after a step in the overall wastewater treatment process. The OMI Mini-Golf course was enjoyed by many at the City's Autumnfest celebration in October while they learned about wastewater treatment.

OMI continued to be active at both the district and state level in wastewater activities in 2005. Three associates received distinguished individual awards at the 2005 joint Arkansas Water Environment Association (AWEA) and Arkansas Water Works and Water Environment Association (AWW&WEA) Conference in Hot Springs. Duyen Tran received the Wastewater Manager of the Year Award, Tim Luther received the Operator of the Year Award, and Denise Georgiou received the Safety Professional of the Year Award. Denise also participated in the filming of the nationally released Wastewater Treatment Security Training video.

OMI also received two 2005 Watershed Education and Stewardship Awards from the University of Arkansas, Division of Agriculture Cooperative Extension Service in November 2005.

The annual industrial awareness seminar was held at the Fayetteville Chamber of Commerce December 9, 2005. David Jurgens, City of Fayetteville Water and Wastewater Director presented the West Plant and Noland upgrades, Duyen Tran, OMI Project Manager gave a Noland Wastewater Treatment Facility process update, Robert Morgan from Beaver Water District discussed water quality issues in the White River watershed, and Denise Georgiou, OMI Industrial Pretreatment Coordinator gave an update on the Pretreatment program. Participant evaluations showed the seminar was well received and appreciated. Mr. Jurgens presented 6

achievement awards to significant industrial users - three for 100% effluent compliance and three for 100% compliance.

Master Sampling Schedule

Sample	Parameter	Analyst	Type	Frequency	Purpose
Influent	Temperature	Operations	Grab	Daily	Process control
	pH	Operations	Grab	3/day	Process control
	Alkalinity	Operations	Grab	Daily	Process control
	TSS/VSS	Lab	12-hr comp	Daily	Mass balance, process control
	BOD/SBOD	Lab	12-hr comp	Daily	Process control, pretreatment
	COD	Lab	12-hr comp	Daily	Process control, pretreatment
	Total Phosphorus	Lab	12-hr comp	Weekly	Process control, pretreatment
	Ortho Phosphorus	Operations	Grab	3/day	Process control
	Ammonia	Lab	12-hr comp	Daily	Process control/NPDES Permit
	Ammonia	Operations	Grab	3/day	Process control
	TKN	Lab	12-hr comp	1 Wk/Qtr	Process control
	Metals	Lab	24-hr comp	Monthly	Pretreatment/NPDES Permit
	CN	Outside Services	24-hr comp of 3 grabs	Monthly	Pretreatment/NPDES Permit
	Phenols	Outside Services	24-hr comp of 3 grabs	Monthly	Pretreatment/NPDES Permit
Priority Pollutants	Outside Services	24-hr comp	Yearly	Pretreatment/NPDES Permit	
RAS	TSS/VSS	Lab	12-hr comp of 3 grabs	Daily	Process control
Sec Clarifier cores	Blanket Depth	Operations	In-Situ	3/day	Process control
A1 (East Aeration Basin)	Ortho-Phosphorus	Operations	Grab	Daily	Process control
A1 (West Aeration Basin)	Ortho-Phosphorus	Operations	Grab	Daily	Process control
A6 East	Ammonia	Operations	Grab	3/week	Process control
Oxic 7 East	Ammonia	Operations	Grab	3/week	Process control
	% Spin	Operations	Grab	3/week	Process control
	D.O.	Operations	In-Situ	Daily	Process control
Oxic 7/8 East	OUR	Operations	Grab	2/week	Process control
Oxic 8 East	Ammonia	Operations	Grab	3/week	Process control
	% Spin	Operations	Grab	3/week	Process control
	D.O.	Operations	In-Situ	Daily	Process control
Oxic 9 East	Ammonia	Operations	Grab	3/week	Process control
	% Spin	Operations	Grab	3/week	Process control
	D.O.	Operations	In-Situ	Daily	Process control
Oxic 10 East	Ammonia	Operations	Grab	3/week	Process control
	Ammonia	Operations	Grab	3/day	Process control
	% Spin	Operations	Grab	3/week	Process control
	D.O.	Operations	In-Situ	Daily	Process control
	TSS/VSS	Lab	12-hr comp of 3 grabs	Daily	Process control
	Ortho-Phosphorus	Operations	Grab	Daily	Process control
	pH	Operations	Grab	Daily	Process control
Nitrate	Lab	12-hr comp of 3 grabs	Daily	Process control	
A6 West	Ammonia	Operations	Grab	3/week	Process control
Oxic 7 West	Ammonia	Operations	Grab	3/week	Process control
	% Spin	Operations	Grab	3/week	Process control
	D.O.	Operations	In-Situ	Daily	Process control
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	Ammonia	Operations	Grab	3/day	Process control
	% Spin	Operations	Grab	3/week	Process control
	D.O.	Operations	In-Situ	Daily	Process control
	TSS/VSS	Lab	12-hr comp of 3 grabs	Daily	Process control
	Ortho-Phosphorus	Operations	Grab	3/day	Process control
	pH	Operations	Grab	3/day	Process control
Nitrate	Lab	12-hr comp of 3 grabs	Daily	Process control	
Secondary Effluent	TSS	Lab	Grab	Daily	Process control
	TKN	Lab	Grab	1 Wk/Qtr	Process control
	Phosphorus	Lab	Grab	Weekly	Process control
	Alkalinity	Operations	Grab	Daily	Process control
Process Effluent	D.O.	Lab	In-Situ	Daily	NPDES Permit
	pH	Lab	Grab	Daily	NPDES Permit
	Temperature	Lab	In-Situ	Daily	NPDES Permit
	Residual Cl2	Lab	Grab	Daily	NPDES Permit
	Fecal Coliform	Lab	Grab	Daily	NPDES Permit
	pH	Operations	Grab	3/day	Process control
	Ortho-Phosphorus	Operations	Grab	3/day	Process control
	CN	Outside Services	composite of 3 grabs	Monthly	Pretreatment/NPDES Permit
	Phenols	Outside Services	composite of 3 grabs	Monthly	Pretreatment/NPDES Permit
	Priority Pollutants	Outside Services	12-hr comp & grab	Yearly	Pretreatment/NPDES Permit
	Ammonia	Operations	Grab	3/day	Process control

Master Sampling Schedule

Sample	Parameter	Analyst	Type	Frequency	Purpose
White River - 001	TSS	Lab	12-hr comp	Daily	NPDES Permit
	CBOD	Lab	12-hr comp	Daily	NPDES Permit
	Ammonia	Lab	12-hr comp	Daily	NPDES Permit
	Ammonia	Operations	12-hr comp	Daily	Process control
	Phosphorus	Lab	12-hr comp	Daily	NPDES Permit
	Ortho-Phosphorus	Operations	12-hr comp	Daily	Process control
	Metals	Lab	12-hr comp	Monthly	Pretreatment/NPDES Permit
	Chronic Bioassays	Outside Services	12-hr comp	Jan & July	NPDES Permit
White River Stream	Flow	Operations	In-Situ	Jul, Aug, Sep	NPDES Permit
	Temperature	Operations	In-Situ	Jul, Aug, Sep	NPDES Permit
Mud Creek - 002	TSS	Lab	12-hr comp	Daily	NPDES Permit
	CBOD	Lab	12-hr comp	Daily	NPDES Permit
	Ammonia	Lab	12-hr comp	Daily	NPDES Permit
	Ammonia	Operations	12-hr comp	Daily	Process control
	Phosphorus	Lab	12-hr comp	Daily	NPDES Permit
	Ortho-Phosphorus	Operations	12-hr comp	Daily	Process control
	Metals	Lab	12-hr comp	Monthly	Pretreatment/NPDES Permit
	Chronic Bioassays	Outside Services	12-hr comp	Apr & Oct	NPDES Permit
Belt Filter Press Metals (for LA): As, Cd, Cu, Hg, K, Mo, Ni, Pb, Se, Zn Metals (for IPP/NPDES): Ag, As, Be, Cd, Cr, Cu, Hg, K, Ni, Pb, Sb, Se, Ti, Zn (IPP Frequency 4/Yr)	% TS/%VS	Lab	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	Phosphorus	Lab	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	Ammonia	Lab	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	Nitrate	Outside Services	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	Nitrite	Outside Services	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	CN	Outside Services	Grab	6/Year	Pretreatment/Sludge/NPDES
	Phenols	Outside Services	Grab	6/Year	Pretreatment/Sludge/NPDES
	TKN	Outside Services	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	pH	Lab	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	Metals	Lab	Grab	6/Year	IPP/Sludge/NPDES/Land Appl
	PCB	Outside Services	Grab	1/year	Pretreatment/Sludge/NPDES
	TCLP	Outside Services	Grab	1/year	Pretreatment/Sludge/NPDES
Belt Filter Press	%TS - Cake	Operations	Grab	1/Truck	Sludge/NPDES
	%TS - Pre-cake	Operations	Grab	1/Truck	Sludge/NPDES
	%TS Filtrate	Lab	Grab	Daily	Sludge/NPDES
	Paint Filter Test	Lab	Grab	Annually	Landfill Certification
WAS GT Filtrate	TSS	Lab	Grab	Daily	Process control
Industries (Surcharge)	BOD	Lab	24-hr comp	Quarterly	Pretreatment
	TSS	Lab	24-hr comp	Quarterly	Pretreatment
	Phosphorus	Lab	24-hr comp	Quarterly	Pretreatment
	pH	Lab	Grab	Quarterly	Pretreatment
Industries (Compliance) (AYR, EPC, KDT, MTT, WM, SUP, COO) (KDT, MTT, SUP, COO) (PFC, TYS, HD, MOE, EPC)	pH	Lab/Pretreatment	Grab	As needed	Pretreatment
	BOD	Lab	24-hr comp	As needed	Pretreatment
	TSS	Lab	24-hr comp	As needed	Pretreatment
	Phosphorus	Lab	24-hr comp	As needed	Pretreatment
	Metals	Lab	24-hr comp	Yearly	Pretreatment
	TTO	Outside Services	Grab	As needed	Pretreatment
	Cyanide	Outside Services	Grab	Yearly	Pretreatment
Oil/Grease	Outside Services	Grab	Yearly	Pretreatment	
Soil (As, Cd, Cu, Hg, K, Mg, Ni, Pb, Se, Zn)	pH	Outside Services	Grab	1/year	Sludge/NPDES
	CEC	Outside Services	Grab	1/year	Sludge/NPDES
	Metals	Outside Services	Grab	1/year	Sludge/NPDES
	Nitrate	Outside Services	Grab	1/year	Sludge/NPDES
	Phosphorus	Outside Services	Grab	1/year	Sludge/NPDES
	EC (Salt Content)	Outside Services	Grab	1/year	Sludge/NPDES
	%TS (for calc only)	Outside Services	Grab	1/year	Sludge/NPDES
Irrigation Water (MC)	Flow	SMS	In-Situ	Daily	Land Application Permit
	Depth Irrigated	SMS	In-Situ	Daily	Land Application Permit
	Area Irrigated (acres)	SMS	In-Situ	Daily	Land Application Permit
	Nitrate+Nitrite	Outside Services	Grab	Quarterly	Land Application Permit
	Phosphorus	Lab	Grab	Quarterly	Land Application Permit
Groundwater Wells	Static Water Level	SMS	In-Situ	Monthly	Land Application Permit
	Nitrate+Nitrite	Outside Services	Grab	Quarterly	Land Application Permit
	Phosphorus	Lab	Grab	Quarterly	Land Application Permit
Grit and Screenings	TCLP	Outside Services	Grab	Annually	Landfill Certification

Reporting Year: January 1, 2005 – December 31, 2005
 Treatment Plant: Fayetteville Municipal Pollution Control Facility NPDES Permit # AR0020010
 Average POTW Flow: 12.39 MGD %IU Flow: 14.1 %

Laboratory Analysis for Influent and Effluent			
Metals and Cyanide	EPA Method Used	Detection Level Achieved (µg/l)	Detection Level Required (µg/l)
Antimony, Total Recoverable	200.8	3	60
Arsenic, Total Recoverable	200.8	1	10
Beryllium, Total Recoverable	200.8	0.3	5
Cadmium, Total Recoverable	200.8	0.1 & 0.4	1
Chromium, Total Recoverable	200.8	1	10
Chromium, (6+) Dissolved	SM 3500-CrB	7	10
Copper, Total Recoverable	200.8	1	10
Lead, Total Recoverable	200.8	1	5
Mercury, Total Recoverable	245.2	0.2	0.2
Nickel, Total Recoverable	200.8	10	40
Selenium, Total Recoverable	200.8	2	5
Silver, Total Recoverable	200.8	0.2	2
Thallium, Total Recoverable	200.8	1	10
Zinc, Total Recoverable	200.8	2	20
Cyanide, Total Recoverable	335.2	5	20
Phenols, Total Recoverable	420.1	5	5

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Metals, Cyanide, & Phenols	MAHL lb/day (3) & (4)	Influent (mg/l) (2) Dates Sampled																		
		01/23/05	01/24/05	02/22/05	03/14/05	03/16/05	04/12/05	05/16/05	05/17/05	06/06/05	06/07/05	07/09/05	07/10/05	08/22/05	08/23/05	09/14/05	09/15/05	10/09/05	10/10/05	11/06/05
Antimony	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic	13.83	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	<0.0004	<0.0004	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Cadmium	0.44	0.0004	0.0004	0.0004	0.0004	0.0002	0.0005	0.0002	0.0002	0.0002	0.0004	0.0003	0.0003	0.0003	0.0008	0.0003	0.0004	0.0003	0.0003	0.0003
Chromium	10.82	0.0053	0.0068	0.0310	0.0310	<0.0010	0.0060	0.0015	0.0015	0.0015	0.0035	0.0072	0.0072	0.012	0.012	0.012	<0.0010	<0.0010	0.022	0.022
Copper	6.10	0.042	0.030	0.057	0.041	0.029	0.041	0.015	0.015	0.015	0.046	0.040	0.040	0.068	0.068	0.040	0.040	0.040	0.078	0.078
Lead	3.18	0.002	0.003	0.003	0.003	0.002	0.003	0.001	0.001	0.001	0.004	0.003	0.003	0.007	0.007	0.003	0.003	0.003	0.005	0.005
Mercury	0.0018	0.0002	0.0002	0.0003	0.0003	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	<0.0002	<0.0002	0.0002	0.0002
Molybdenum																				
Nickel	6.61	0.028	0.017	0.037	0.037	0.016	0.025	0.012	0.012	0.012	0.011	0.044	0.044	0.030	0.030	0.030	<0.010	<0.010	0.055	0.055
Selenium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	24.96	0.0011	0.0026	0.0033	0.0033	0.0012	0.0018	0.0006	0.0006	0.0006	0.0010	0.0015	0.0015	0.0018	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	36.60	0.08	0.08	0.11	0.11	0.05	0.09	0.14	0.14	0.14	0.12	0.10	0.10	0.12	0.12	0.12	0.09	0.09	0.12	0.12
Cyanide	0.60	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenols		0.074	0.028		0.034	0.013		0.055	0.055	0.055	0.055	0.035	0.035	0.019	0.019	0.019	0.038	0.038	0.035	0.035
Flow, MGD		11.60	12.32	12.76	11.01	11.75	22.08	10.41	14.61	15.73	9.57	9.65	11.79	11.97	14.15	17.89	11.29	11.97	10.58	10.58
(5)																				

- (1) It is advised that the influent and effluent samples are collected considering flow detention time through each plant.
- (2) Analytical MQLs should be used so that the data can also be used for Local Limits assessments and NPDES application purposes.
- (3) Indicate reported unit of measure.
- (4) This value was calculated during development of TBLL and based on State Water Quality Standards and implementation procedures.
- (5) This can be reported in ppm (mg/l), ppb, lb/day.
- (6) Record the name of any pollutants [40 CFR 122, Appendix D, Table II and/or Table V] detected and the quantity in which they were detected.

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 Treatment Plant: Fayetteville Municipal Pollution Control Facility NPDES Permit # AR00020010
 Average POTW Flow: 12.39 MGD %IU Flow: 14.1%

Metals, Cyanide, & Phenols	WQ Level/Limit (mg/l) (3) & (4)	Effluent (mg/l) (2)															
		Dates Sampled															
		MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC
		01/23/05	01/24/05	02/22/05	02/23/05	03/14/05	03/16/05	04/12/05	05/17/05	06/07/05	07/10/05	08/23/05	09/15/05	10/10/05	11/07/05	12/19/05	12/20/05
Antimony	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic	0.34	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Cadmium	0.007	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	1.26	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	0.04	0.002	0.010	0.002	0.002	0.010	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.006
Lead	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury	0.00001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum																	
Nickel	0.42	0.018	0.016	0.016	0.016	0.015	0.016	0.010	0.012	0.011	0.010	0.026	0.016	0.015	0.012	0.01	0.01
Selenium	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	0.37	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.04	0.04
Cyanide	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenols	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Flow, MGD		7.84	7.00	3.58	7.70	6.00	5.96	6.76	5.48	4.12	4.96	5.36	6.82	5.98	5.46	6.04	5.44
	(5)																

Metals, Cyanide, & Phenols	WQ Level/Limit (mg/l) (3) & (4)	Effluent (mg/l) (2)															
		Dates Sampled															
		WR	WR	WR	WR	WR	WR	WR	WR	WR	WR	WR	WR	WR	WR	WR	WR
		01/23/05	01/24/05	02/22/05	02/23/05	03/14/05	03/16/05	04/12/05	05/17/05	06/07/05	07/10/05	09/15/05	10/10/05	11/07/05	12/19/05	12/20/05	12/20/05
Antimony	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic	0.34	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Cadmium	0.007	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	1.26	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	0.04	0.002	0.002	0.002	0.002	0.011	0.004	0.004	0.003	0.004	0.002	0.004	0.002	0.002	0.002	0.003	0.003
Lead	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury	0.00001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum																	
Nickel	0.42	0.017	0.016	0.017	0.017	0.016	0.016	0.010	0.013	0.012	0.02	0.016	0.014	0.013	<0.010	<0.010	<0.010
Selenium	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	0.37	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.03	0.03
Cyanide	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenols	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Flow, MGD		4.42	5.92	7.90	6.64	7.84	9.52	14.66	9.80	5.06	5.66	5.44	9.30	4.50	3.70	4.00	4.00
	(5)																

MC = Mud Creek
 WR = White River
 Only one day of discharge to WR in August 2005
 it is advised that the influent and effluent samples are collected considering flow detention time through each plant.
 Analytical MQLs should be used so that the data can also be used for Local Limits assessments and NPDES application purposes.
 Indicate reported unit of measure.
 (2) This value was calculated during development of TBLL and based on State Water Quality Standards and implementation procedures.
 (3) This can be reported in ppm (mg/l), ppb, lb/day.
 (4) Record the name of any pollutants [40 CFR 122, Appendix D, Table II and/or Table V] detected and the quantity in which they were detected.
 (5) (See next two tables in this report, influent and effluent organics, for 40 CFR 122, Appendix D, Table II data)

Influent - Organic Pollutants

less than	Pollutant (ug/l)	6/6/2005 ug/L
Volatiles	acrolein	50
	acrylonitrile	50
	benzene	4.4
	bromoform	4.7
	carbon tetrachloride	2.8
	chlorobenzene	6
	chlorodibromomethane	3.1
	chloroethane	8.7
	2-chloroethylvinyl ether	5.1
	chloroform	12
	dichlorobromomethane	2.2
	1,1-dichloroethane	4.7
	1,2-dichloroethane	2.8
	1,1-dichloroethylene	2.8
	1,2-dichloropropane	6
	cis-1,3-dichloropropylene	5
	trans-1,3-dichloropropylene	1.3
	ethylbenzene	7.2
	methyl bromide	8.9
	methyl chloride	7.8
	methylene chloride	10
	1,1,2,2-tetrachloroethane	6.9
	tetrachloroethylene	4.1
	toluene	6
	1,2-trans-dichloroethylene	1.6
	1,1,1-trichloroethane	3.8
1,1,2-trichloroethane	5	
trichloroethylene	1.9	
vinyl chloride	6.4	
Acids	2-chlorophenol	14
	2,4-dichlorophenol	11
	2,4-dimethylphenol	11
	4,6-dinitro-o-cresol	96
	2,4-dinitrophenol	170
	2-nitrophenol	15
	4-nitrophenol	9.6
	p-chloro-m-cresol	12
	pentachlorophenol	15
	phenol	6
2,4,6-trichlorophenol	11	
Base/Neutral	acenaphthene	7.6
	acenaphthylene	14
	anthracene	7.6
	benzidine	180
	benzo(a)anthracene	32
	benzo(a)pyrene	10
	3,4-benzofluoranthene	20
	benzo(g,h,i)perylene	17
	benzo(k)fluoranthene	10
	bis(2-chloroethoxy)methane	22
	bis(2-chloroethyl)ether	23
	bis(2-chloroisopropyl)ether	23
	bis(2-ethylhexyl)phthalate	10
	4-bromophenyl phenyl ether	7.6
	butylbenzyl phthalate	10
	2-chloronaphthalene	7.6

less than	Pollutant (ug/l)	1/23/2005 ug/l	6/6/2005 ug/l	8/22/2005 ug/L	
Base/Neutral	4-chlorophenyl phenyl ether			17	
	chrysene			10	
	dibenzo(a,h)anthracene			10	
	1,2-dichlorobenzene			7.6	
	1,3-dichlorobenzene			7.6	
	1,4-dichlorobenzene			18	
	3,3'-dichlorobenzidine			66	
	diethyl phthalate			7.6	
	dimethyl phthalate			6.4	
	di-n-butyl phthalate			10	
	2,4-dinitrotoluene			23	
	2,6-dinitrotoluene			7.6	
	di-n-octyl phthalate			10	
	1,2-diphenylhydrazine			44	
	fluoranthene			8.8	
	fluorene			7.6	
	hexachlorobenzene			7.6	
	hexachlorobutadiene			3.60	
	hexachlorocyclopentadiene			20	
	hexachloroethane			6.4	
	indeno(1,2,3-cd)pyrene			15	
	isophorone			8.8	
	naphthalene			6.4	
nitrobenzene			7.6		
N-nitrosodimethylamine			3.9		
N-nitroso-di-n-propylamine			3.4		
N-nitrosodiphenylamine			7.6		
phenanthrene			22		
pyrene			7.6		
1,2,4-trichlorobenzene			7.6		
Pesticides	aldrin			0.02	
	alpha-BHC			0.02	
	beta-BHC			0.03	
	gamma-BHC (lindane)	0.004		0.02	0.004
	delta-BHC			0.05	
	chlordane			0.07	
	4,4'-DDT			0.06	
	4,4'-DDE			0.02	
	4,4'-DDD			0.055	
	dieldrin			0.01	
	alpha-endosulfan			0.07	
	beta-endosulfan			0.02	
	endosulfan sulfate			0.33	
	endrin			0.03	
	endrin aldehyde			0.12	
	heptachlor	0.01		0.02	0.003
	heptachlor epoxide			0.42	
	PCB 1242			0.3	
	PCB 1254			1	
	PCB 1221			1	
PCB 1232			0.3		
PCB 1248			0.4		
PCB 1260			0.3		
PCB 1016			0.4		
toxaphene			1.2		
Others	Dioxin (2,3,7,8-TCDD)			4	

Effluent - Organic Pollutants

less than	Pollutant (ug/l)	6/7/2005 ug/L
Volatiles	acrolein	50
	acrylonitrile	50
	benzene	4.4
	bromoform	4.7
	carbon tetrachloride	2.8
	chlorobenzene	6
	chlorodibromomethane	3.1
	chloroethane	8.7
	2-chloroethylvinyl ether	5.1
	chloroform	1.6
	dichlorobromomethane	2.2
	1,1-dichloroethane	4.7
	1,2-dichloroethane	2.8
	1,1-dichloroethylene	2.8
	1,2-dichloropropane	6
	cis-1,3-dichloropropylene	5
	trans-1,3-dichloropropylene	1.3
	ethylbenzene	7.2
	methyl bromide	8.9
	methyl chloride	7.8
	methylene chloride	10
	1,1,2,2-tetrachloroethane	6.9
	tetrachloroethylene	4.1
	toluene	6
	1,2-trans-dichloroethylene	1.6
	1,1,1-trichloroethane	3.8
	1,1,2-trichloroethane	5
	trichloroethylene	1.9
	vinyl chloride	6.4
	Acids	2-chlorophenol
2,4-dichlorophenol		2.7
2,4-dimethylphenol		2.7
4,6-dinitro-o-cresol		24
2,4-dinitrophenol		42
2-nitrophenol		3.6
4-nitrophenol		2.4
p-chloro-m-cresol		3
pentachlorophenol		3.6
phenol		1.5
2,4,6-trichlorophenol	2.7	
Base/Neutral	acenaphthene	1.9
	acenaphthylene	3.5
	anthracene	1.9
	benzidine	44
	benzo(a)anthracene	7.8
	benzo(a)pyrene	2.5
	3,4-benzofluoranthene	4.8
	benzo(g,h,i)perylene	4.1
	benzo(k)fluoranthene	2.5
	bis(2-chloroethoxy)methane	5.3
	bis(2-chloroethyl)ether	5.7
	bis(2-chloroisopropyl)ether	5.7
	bis(2-ethylhexyl)phthalate	2.5
	4-bromophenyl phenyl ether	1.9
	butylbenzyl phthalate	2.5
	2-chloronaphthalene	1.9

less than	Pollutant (ug/l)	1/26/2005	6/7/2005 ug/L	8/23/2005 ug/L
Base/Neutral	4-chlorophenyl phenyl ether		4.2	
	chrysene		2.5	
	dibenzo(a,h)anthracene		2.5	
	1,2-dichlorobenzene		1.9	
	1,3-dichlorobenzene		1.9	
	1,4-dichlorobenzene		4.4	
	3,3'-dichlorobenzidine		17	
	diethyl phthalate		1.9	
	dimethyl phthalate		1.6	
	di-n-butyl phthalate		2.5	
	2,4-dinitrotoluene		5.7	
	2,6-dinitrotoluene		1.9	
	di-n-octyl phthalate		2.5	
	1,2-diphenylhydrazine		11	
	fluroranthene		2.2	
	fluorene		1.9	
	hexachlorobenzene		1.9	
	hexachlorobutadiene		1.90	
	hexachlorocyclopentadiene		5	
	hexachloroethane		1.6	
	indeno(1,2,3-cd)pyrene		3.7	
isophorone		2.2		
naphthalene		1.6		
nitrobenzene		1.9		
N-nitrosodimethylamine		0.96		
N-nitrosodi-n-propylamine		0.84		
N-nitrosodiphenylamine		1.9		
phenanthrene		5.4		
pyrene		1.9		
1,2,4-trichlorobenzene		1.9		
Pesticides	aldrin		0.004	
	alpha-BHC		0.003	
	beta-BHC		0.006	
	gamma-BHC (lindane)	0.004	0.007	0.004
	delta-BHC		0.009	
	chlordane		0.014	
	4,4'-DDT		0.012	
	4,4'-DDE		0.004	
	4,4'-DDD		0.011	
	dieldrin		0.002	
	alpha-endosulfan		0.014	
	beta-endosulfan		0.004	
	endosulfan sulfate		0.066	
	endrin		0.006	
	endrin aldehyde		0.023	
	heptachlor	0.003	0.003	0.003
	heptachlor epoxide		0.083	
	PCB 1242		0.06	
PCB 1254		0.2		
PCB 1221		0.2		
PCB 1232		0.05		
PCB 1248		0.07		
PCB 1260		0.06		
PCB 1016		0.07		
toxaphene		0.24		
Others	Dioxin (2,3,7,8-TCDD)		1	

Monitoring Results (1) for the Annual Pretreatment Report
Reporting Year: January 1, 2005 - December 31, 2005
Treatment Plant: Fayetteville Municipal Pollution Control Facility NPDES Permit # AR0020010
Average POTW Flow: 12.39 MGD %IU Flow: 14.1%

Metals, Cyanide, & Phenols	Biosolids (mg/kg) Dates Sampled			
	03/15/05	05/18/05	08/24/05	11/10/05
Antimony	<3.00	<3.00	<3.00	<3.00
Arsenic	<5.00	<5.00	<5.00	<5.00
Beryllium	0.12	0.10	0.17	0.17
Cadmium	1.30	1.30	2.20	1.60
Chromium	40	40	69	68
Copper	160	190	250	230
Lead	9	14	19	13
Mercury	0.48	3.40	0.74	0.60
Molybdenum	5.5	8.0	9.9	8.1
Nickel	27	31	39	45
Selenium	15	<7.00	<7.00	<7.00
Silver	9	9	10	7
Thallium	<4.00	<4.00	<4.00	<4.00
Zinc	300	380	600	350
Cyanide	<4.00	<4.00	<3.00	<3.00
Phenols	14.00	<0.70	9.900	3.800

Attachment C
Pretreatment Program Status Report
Updated Significant Industrial Users List

Industrial User	SIC Code	Categorical Determination	Control Document		New User or New ID	Times Inspected	Times Sampled (SIU+POTW/POTW sampling)	Compliance Status ¹					
			Y/N	Effective Date/Action				BMR	90-Day Compliance	Reports		Effluent Limits	
										Semi Annual	Self Monitoring		
Marshalltown Tools, 2200 Industrial Drive	3423	40 CFR 433	Y	120103/ Reissued	No	1	7/1	N/A	N/A	C	C	C	C
Pinnacle Foods Corporation, 100 W 15 th St.	2038	Non-Categorical	Y	060105/ Reissued	No	1	150/4	N/A	N/A	C	C		NC
Superior Industries International, 1901 Borick Dr.	3365 3398 3471 3714	40 CFR 433	Y	100103/ Reissued	No	1	135/1	N/A	N/A	C	C	C	C
Tyson Foods (South), 2615 S. School	2038 2099	Non-Categorical	Y	030105/ Reissued	No	1	365/4	N/A	N/A	C	C	C	C

Attachment C
Pretreatment Program Status Report
Updated Significant Industrial Users List

Industrial User	SIC Code	Categorical Determination	Control Document		New User or New ID	Times Inspected	Times Sampled (SIU+POTW/POTW sampling)	Compliance Status ¹					
			Y/N	Effective Date/Action				BMR	90-Day Compliance	Semi Annual	Self Monitoring	Effluent Limits	
													90-Day Compliance
Ayrshire Electronics, LLC, 1101 S. Beechwood Ave.	3672	Non-Categorical	Y	033103/ Reissued	No	1	13/1	N/A	N/A	C	NC ✓	C	C
Cooper Power Systems/Kearney Operation, 3660 S. School	3643	40 CFR 433	Y	120101/ Reissued	No	1	14/1	N/A	N/A	C	C	C	NC ✓
Elkhart Products Corporation, 3265 Hwy 71 S.	3498 3351 3366 3432	40 CFR 468	Y	090103/ Reissued 080405/ Modified	No	2	24/1	N/A	N/A	C	C	C	NC ✓
Hiland Dairy Company, 301 E. 15 th St.	2026 2086	Non-Categorical	Y	030105/ Reissued	No	1	365/4	N/A	N/A	C	NC ✓	NC ✓	NC ✓
K-D Tools, 2900 City Lake Road	3423 3471	40 CFR 433	Y	090101/ Reissued	No	1	57/1	N/A	N/A	C	C	C	NC ✓

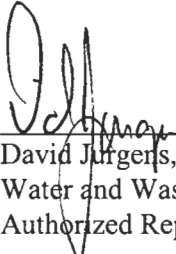
¹ N/A = Not Applicable

C = Compliant: no violations in pretreatment year.

NC = Noncompliant: 1 or more violations in pretreatment year, but not SNC.

SN = Significant Noncompliance: as defined in 40 CFR 403.8(f)(2) and calculated on rolling quarters.

PRETREATMENT PERFORMANCE SUMMARY

<p align="center"><u>I. General Information</u></p> <p>Control Authority: City of Fayetteville 1400 N Fox Hunter Road Fayetteville, AR 72701</p> <p>Contact Person: Denise Georgiou, IPC (479) 443-3292</p> <p>NPDES No.: AR0020010</p> <p>Reporting Period: January 2005 - December 2005</p> <p>Total Categorical IUs: 5</p> <p>Total Significant Noncategorical IUs: 4</p>	<p>I certify that the information contained herein is complete and accurate to the best of my knowledge.</p> <p align="center">  _____ David Jurgens, P.E. Water and Wastewater Director Authorized Representative </p> <p align="right"> <u>30 MAY 06</u> Date </p>
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<u>II. Significant Industrial User Compliance</u>	<u>Significant Industrial Users</u>	
	<u>Categorical</u>	<u>Noncategorical</u>
1) No. of SIUs submitting BMRs/No. Required.....	0 / 0	N/A
2) No. of SIUs submitting 90-Day Compliance Reports/No. Required.....	0 / 0	N/A
3) No. of SIUs submitting Semiannual Report/No. Required.....	5 / 5	4 / 4
4) No. of SIUs meeting Compliance Schedule/No. Required.....	0 / 0	0 / 0
5) No. of SIUs in Significant Noncompliance/Total No. of SIUs.....	0 / 5	0 / 4
6) Rate of Significant Noncompliance for all SIUs (categorical and noncategorical).....	0 / 9	
<u>III. Compliance Monitoring Program</u>		
1) No. of Control Documents Issued/No. Required.....	0 / 0	3 / 3
2) No. of Nonsampling inspections Conducted.....	6	4
3) No. of Sampling Visits Conducted.....	5	16
4) No. of Facilities Inspected (nonsampling).....	5	4
5) No. of Facilities Sampled.....	5	4
<u>IV. Enforcement Actions</u>		
1) Compliance Schedules Issued/Schedules Required.....	0 / 0	0 / 0
2) Notices of Violation Issued to SIUs.....	4	1
3) Administrative Orders Issued to SIUs.....	0	0
4) Civil Suits Filed.....	0	0
5) Criminal Suits Filed.....	0	0
6) Significant Violators (attach newspaper list).....	0	0
7) Amount of Penalties Collected (total dollars/IUs assessed).....	\$0 / 0	\$0 / 0
8) Other Actions (sewer bans, etc.).....	0	0

Attachment E
Significant Violators - Enforcement Actions Taken

Industrial User	Nature of Violation		Number of Actions Taken				Penalties Collected	Compliance Schedule to meet effluent limits		Current Status	Comments
	Reports	Limits	N.O.V.	A.O.	Civil	Criminal		Other	Date Issued		
No industrial users with significant violations											

There were no industrial users in significant noncompliance so newspaper publication was not necessary for the 2005 industrial pretreatment year.

CODE SHEET

Logged
AB

Annual Report

CODE

Auditor's Name	<u>Gilliam</u>	
Permit Number	<u>AR0020010</u>	
Period Report Covers End Date	<u>12/31/05</u>	PSED
Start Date	<u>1/1/05</u>	PSSD

PPETS WENDB DATA ELEMENTS

Significant IUs in Significant Noncompliance with Pretreatment Compliance Schedule	<u>0</u>	SSNC
NOV's and A.O.'s Issued Against Significant IUs	<u>5</u>	FENF
Civil and/or Criminal Judicial Actions Against Significant IUs	<u>0</u>	JUDI
Significant IUs with Significant Violations published in Newspaper	<u>0</u>	SVPU
IUs from which penalties have been collected	<u>0</u>	IUPN

COMMENTS:
