

Torrence, Rufus

From: Torrence, Rufus
Sent: Tuesday, June 29, 2010 10:40 AM
To: Denise.Georgiou@CH2M.com
Subject: AFIN 72-00102 AR0020010, AR0050288 City of Fayetteville 2009 Annual Report

ADEQ

ARKANSAS
Department of Environmental Quality

June 28, 2010

David Jurgens, P.E., Utilities Director
City of Fayetteville
113 W. Mountain Avenue
Fayetteville, AR 72701

Re: City of Fayetteville 2009 Annual Pretreatment Report
(Permit No. AR0020010, AR0050288 AFIN 72-00102)

Dear Mr. Jurgens:

The Department has reviewed the City's 2009 Annual Pretreatment Report and the report is complete. However, the Department has some recommendations to improve the City's program operation and reporting:

1. Please include a cover letter with your report addressed to:

Rufus Torrence, Engineer / Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

2. The City may submit any pertinent information but the Departments requires only the following:

Cover Letter
Newspaper Publication of SIUs in SNC (If applicable)
List of SIUs in SNC (If applicable)
Influent/Effluent Chart
Attachment A (Updated SIU List)
Attachment B (Enf Actions)
Attachment C (PPS)

The Department appreciates the City's continued efforts in annual reporting.

If you have any questions or concerns, please contact the Department at (501) 682-0626 or by email at torrence@adeq.state.ar.us.

Sincerely,



Rufus Torrence, Pretreatment Engineer
Water Division

- ① INF/EFF to Katie
- ② ICIS sheet to David
- ③ IU's checked
- ④ ANRT's updated

CITY OF FAYETTEVILLE, AR

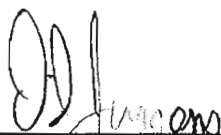
CITY OF FAYETTEVILLE PAUL R. NOLAND WWTP INDUSTRIAL PRETREATMENT PROGRAM ANNUAL REPORT

NPDES PERMIT # AR0020010 *

PROGRAM YEAR
January 2009 - December 2009

Submitted by:

City of Fayetteville
113 W. Mountain Ave.
Fayetteville, AR 72701
(479) 575-8330
(479) 575-8257 Fax



David Jurgens, P.E.
Utilities Director

May 2010

* logged into Zylab under "AR0050288" as "correspondence"
assigned to "S..."

TABLE OF CONTENTS

	<u>Page</u>
<u>Overview</u>	1
<u>POTW Monitoring Efforts</u>	1
<u>Control Mechanisms</u>	1
<u>Inspection and Monitoring of SIUs</u>	2
<u>Compliance Status of SIUs</u>	2
<u>POTW Compliance Status</u>	2
<u>Change in Pollutants</u>	2
<u>Acomplishments</u>	3

ATTACHMENTS

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

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: January 2009 TO December 2009
TREATMENT PLANT: City of Fayetteville Paul R. Noland WWTP NPDES PERMIT #AR0020010
AVERAGE POTW FLOW: 6.5 MGD % IU FLOW: 17.5%

METALS, CYANIDE and PHENOLS	MAHC (Total) (µg/L) (2)	INFLUENT DATES SAMPLED (µg/L) Once/quarter				WQ level/ limit (µg/L) (2)	EFFLUENT DATES SAMPLED (µg/L) Once/quarter				LABORATORY ANALYSIS					
		Date	Date	Date	Date		Date	Date	Date	Date	EPA MQL (µg/L) (1)	EPA Method Used (1)	Detection Level Achieved (µg/L)			
		2/24/09	4/14/09	7/16/09*	10/14/09**		2/24/09	4/14/09	7/16/09*	10/14/09**						
Antimony	N/A	0	0	0	0	N/A	0	0	0	0	0	0	60	200.8	60	
Cadmium	21.2	0	0	0.77	0	7.0	0	0	0	0	0	0	0.5	200.8	0.5	
Copper	684.66	34	14	39	9.9	41.1	2.1	3	0.59	1.1	0.5	0.5	200.8	200.8	0.5	
Lead	39.02	2.7	1.2	3.0	1.1	18.7	0.59	0	0	0	0	0	0.5	200.8	0.5	
Mercury	0.03	0.0027	0.0094	0.1000	0.0430	0.01	0	0	0	0.0024	0.005	0.005	245.7	200.8	0.0018	
Nickel	235.34	7	9.6	7.8	5.7	422.02	4.6	4.5	4.2	3.4	0.5	0.5	200.8	200.8	0.5	
Selenium	11.16	0	8.2	0	0	5.6	0	0	0	0	5	5	200.8	200.8	5	
Silver	44.34	1.5	0	0.93	0	20.0	0	0	0	0	0.5	0.5	200.8	200.8	0.5	
Zinc	300.00	89	59	100	37	372.9	0	0	0	0	20	20	200.8	200.8	20	
Chromium	676.51	8.8	0	0	0	1255.0	0	0	0	0	10	10	200.8	200.8	10	
Cyanide	18.72	0	0	0	0	5.8	0	0	0	0	10	10	SM4500- CN C,E	200.8	5	
Arsenic	30.82	0	1.8	0.81	0	342.4	0	0	0	0	0.5	0.5	200.8	200.8	0.5	
Molybdenum	27.74	0	0	0	0	N/A	0	0	0	0	--	--	200.8	200.8	8	
Phenols	N/A	41	43	18	44	N/A	0	0	12	0	5	5	420.1	200.8	5	
Beryllium	11.83	0	0	0	0	5.9	0	0	0	0	0.5	0.5	200.8	200.8	0.5	
Thallium	N/A	0	0	0	0	N/A	0	0	0	1.4	0.5	0.5	200.8	200.8	0.5	
Flow, MGD	N/A	6.02	10.26	4.33	15.15	N/A	7.5	8.25	5.19	13.05						
(3)																

* All parameters were sampled 7/16/09 except mercury Influent and Effluent sample date is 7/14/09 and phenol Effluent date is 7/24/09.
 ** All parameters were sampled 10/14/09 except mercury Influent and Effluent sample date is 10/13/09.

Paul R. Noland

Sample	Parameter	Analyst	Type	Frequency	Purpose
Groundwater Wells	Phosphorus	Lab	Grab	Quarterly	Land Application Permit
	Static Water Level	SMS	In-Situ	Monthly	Land Application Permit
	Nitrate+Nitrite	Outside Services	Grab	Quarterly	Land Application Permit
Annual	Phosphorus	Outside Services	Grab	Quarterly	Land Application Permit
Grit and Screenings	TCLP	Outside Services	Grab	Annually	Landfill Certification

(1) It is advised that the influent and effluent samples are collected considering flow detention time through each plant. **Analytical MQLs must be met for the effluent (and SHOULD be met for the influent) so the data can also be used for Local Limits assessment and NPDES application purposes.**

(2) This value was calculated during the development of TBLL based on State WQ criteria, EPA guidance and either ADEQ Pretreatment staff Excel spreadsheets or the Permittee's consultant with concurrence from Pretreatment staff. Table & values provided by R. Torrence of ADEQ in a letter dated October 1, 2009.

(3) Record the name of any pollutant [40 CFR 122, Appendix D, Table II and/or Table V] detected and the concentration at which they were detected.

MAHL - Maximum Allowable Headworks Level / MAHC – Maximum Allowable Headworks Concentration

WQ - "Water Quality Levels not to exceed" OR actual permit limit.

Influent – Table II

	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Volatiles	acrolein	0	50
	acrylonitrile	0	20
	benzene	0	4.4
	bromoform	0	4.7
	carbon tetrachloride	0	2
	chlorobenzene	0	6
	chlorodibromomethane	0	3.1
	chloroethane	0	8.7
	2-chloroethylvinyl ether	0	5.1
	chloroform	6.2	1.6
	dichlorobromomethane	0	2.2
	1,1-dichloroethane	0	4.7
	1,2-dichloroethane	0	2.8
	1,1-dichloroethylene	0	2.8
	1,2-dichloropropane	0	6
cis-1,3-dichloropropylene	0	5	
trans-1,3-dichloropropylene	0	1.3	
ethylbenzene	0	7.2	
methyl bromide	0	8.9	
methyl chloride	0	7.8	
methylene chloride	0	10	
1,1,2,2-tetrachloroethane	0	6.9	
tetrachloroethylene	0	4.1	
toluene	0	6	
1,2-trans-dichloroethylene	0	1.6	
1,1,1-trichloroethane	0	3.8	
1,1,2-trichloroethane	0	5	
trichloroethylene	0	1.9	
vinyl chloride	0	6.4	
Acids	2-chlorophenol	0	17
	2,4-dichlorophenol	0	14
	2,4-dimethylphenol	0	14
	4,6-dinitro-o-cresol	0	120
	2,4-dinitrophenol	0	210
	2-nitrophenol	0	18
	4-nitrophenol	0	12
	p-chloro-m-cresol	0	15
	pentachlorophenol	0	18
	phenol	8.6	7.5
	2,4,6-trichlorophenol	0	14
	acenaphthene	0	9.5
	acenaphthylene	0	18
	anthracene	0	9.5
	benzidine	0	220
	benzo(a)anthracene	0	25
	benzo(a)pyrene	0	13
	3,4-benzofluoranthene	0	24
	benzo(g,h,i)perylene	0	21
	benzo(k)fluoranthene	0	13
bis(2-chloroethoxy)methane	0	27	
bis(2-chloroethyl)ether	0	29	
bis(2-chloroisopropyl)ether	0	29	
bis(2-ethylhexyl)phthalate	0	13	
4-bromophenyl phenyl ether	0	9.5	
butylbenzyl phthalate	0	13	
2-chloronaphthalene	0	9.5	
4-chlorophenyl phenyl ether	0	21	
chrysene	0	13	
Base/Neutral			

Influent – Table II (con't)

Base/Neutral	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
	dibenzo(a,h)anthracene	0	13
	1,2-dichlorobenzene	0	1.9
	1,3-dichlorobenzene	0	1.9
	1,4-dichlorobenzene	0	4.4
	3,3'-dichlorobenzidine	0	25
	diethyl phthalate	0	9.5
	dimethyl phthalate	0	8
	di-n-butyl phthalate	0	13
	2,4-dinitrotoluene	0	29
	2,6-dinitrotoluene	0	9.5
	di-n-octyl phthalate	0	13
	1,2-diphenylhydrazine	0	55
	fluoranthene	0	11
	fluorene	0	9.5
	hexachlorobenzene	0	9.5
	hexachlorobutadiene	0	4.5
	hexachlorocyclopentadiene	0	25
	hexachloroethane	0	8
	indeno(1,2,3-cd)pyrene	0	19
	isophorone	0	11
	naphthalene	0	8
	nitrobenzene	0	9.5
	N-nitrosodimethylamine	0	4.8
	N-nitrosodi-n-propylamine	0	4.2
	N-nitrosodiphenylamine	0	9.5
	phenanthrene	0	27
	pyrene	0	9.5
	1,2,4-trichlorobenzene	0	9.5

Pesticides	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
	aldrin	0	0.02
	alpha-BHC	0	0.015
	beta-BHC	0	0.03
	gamma-BHC	0	0.02
	delta-BHC	0	0.045
	chlordane	0	0.07
	4,4'-DDT	0	0.06
	4,4'-DDE	0	0.02
	4,4'-DDD	0	0.055
	dieldrin	0	0.01
	alpha-endosulfan	0	0.07
	beta-endosulfan	0	0.02
	endosulfan sulfate	0	0.33
	endrin	0	0.03
	endrin aldehyde	0	0.12
	heptachlor	0	0.015
	heptachlor epoxide	0	0.05
	PCB 1242	0	1
	PCB 1254	0	1
	PCB 1221	0	1
	PCB 1232	0	1
	PCB 1248	0	1
	PCB 1260	0	1
	PCB 1016	0	1
	toxaphene	0	1.2

Effluent – Table II

	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Volatiles	acrolein	0	50
	acrylonitrile	0	20
	benzene	0	4.4
	bromoform	0	4.7
	carbon tetrachloride	0	2
	chlorobenzene	0	6
	chlorodibromomethane	0	3.1
	chloroethane	0	8.7
	2-chloroethylvinyl ether	0	5.1
	chloroform	0	1.6
	dichlorobromomethane	0	2.2
	1,1-dichloroethane	0	4.7
	1,2-dichloroethane	0	2.8
	1,1-dichloroethylene	0	2.8
	1,2-dichloropropane	0	6
	cis-1,3-dichloropropylene	0	5
	trans-1,3-dichloropropylene	0	1.3
ethylbenzene	0	7.2	
methyl bromide	0	8.9	
methyl chloride	0	7.8	
methylene chloride	0	10	
1,1,2,2-tetrachloroethane	0	6.9	
tetrachloroethylene	0	4.1	
toluene	0	6	
1,2-trans-dichloroethylene	0	1.6	
1,1,1-trichloroethane	0	3.8	
1,1,2-trichloroethane	0	5	
trichloroethylene	0	1.9	
vinyl chloride	0	6.4	
Acids	2-chlorophenol	0	3.3
	2,4-dichlorophenol	0	2.7
	2,4-dimethylphenol	0	2.7
	4,6-dinitro-o-cresol	0	24
	2,4-dinitrophenol	0	42
	2-nitrophenol	0	3.6
	4-nitrophenol	0	2.4
	p-chloro-m-cresol	0	3
	pentachlorophenol	0	3.6
	phenol	0	1.5
	2,4,6-trichlorophenol	0	2.7
	acenaphthene	0	1.9
	acenaphthylene	0	3.5
	anthracene	0	1.9
	benzidine	0	44
	benzo(a)anthracene	0	5
	benzo(a)pyrene	0	2.5
	3,4-benzofluoranthene	0	4.8
	benzo(g,h,i)perylene	0	4.1
	benzo(k)fluoranthene	0	2.5
bis(2-chloroethoxy)methane	0	5.3	
bis(2-chloroethyl)ether	0	5.7	
bis(2-chloroisopropyl)ether	0	5.7	
bis(2-ethylhexyl)phthalate	16	2.5	
4-bromophenyl phenyl ether	0	1.9	
butylbenzyl phthalate	0	2.5	
2-chloronaphthalene	0	1.9	
4-chlorophenyl phenyl ether	0	4.2	
chrysene	0	2.5	
Base/Neutral			

Attachment C
Pretreatment Program Status Report
Updated Significant Industrial Users List

Industrial User	SIC Code/ NAICS Code	Categorical Determination	Control Document		New User or Newly ID	Times Inspected	Times Sampled (SIU+POTW / POTW sampling)	Compliance Status ¹				Nature of Violation	
			Y or N	Effective Date/ Action				Reports			Efflu- ent Limits		
								B M R	90-Day Compli- ance	Semi Annual			Self Monitor -ing
Ayrshire Electronics, LLC, 1101 S. Beechwood Ave.	3672/334412	Non-Categorical	Y	030108/ Reissued	No	1	13/1	NA	C	C	NC	C	Missing zinc results and report 3 days late.
Custom Powder Coating Services, Inc, 1629 W. Farmington St.	3479/332812	40 CFR 433	Y	010108/ Issued	No	2	3/1	NA	NA	NC	C	C	Report 29 days late
Elkhart Products Corporation, 3265 Hwy 71 S.	3498/332996 3351/331421 3366/331525 3432/332913	40 CFR 468	Y	090108/ Reissued	No	2	25/1	NA	NA	C	C	C	
Hiland Dairy Company, 301 E. 15 th St.	2026/311511 2086/312111	Non-Categorical	Y	030105/ Reissued	No	1	364/4	NA	NA	C	C	NC	Monthly Average TSS > 847 lb/day (1425)

NA = 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.

Effluent – Table II (con't)

	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Base/Neutral	dibenzo(a,h)anthracene	0	2.5
	1,2-dichlorobenzene	0	1.9
	1,3-dichlorobenzene	0	1.9
	1,4-dichlorobenzene	0	4.4
	3,3'-dichlorobenzidine	0	5
	diethyl phthalate	0	1.9
	dimethyl phthalate	0	1.6
	di-n-butyl phthalate	2.6	2.5
	2,4-dinitrotoluene	0	5.7
	2,6-dinitrotoluene	0	1.9
	di-n-octyl phthalate	0	2.5
	1,2-diphenylhydrazine	0	11
	fluoranthene	0	2.2
	fluorene	0	1.9
	hexachlorobenzene	0	1.9
	hexachlorobutadiene	0	0.9
	hexachlorocyclopentadiene	0	5
	hexachloroethane	0	1.6
	indeno(1,2,3-cd)pyrene	0	3.7
	isophorone	0	2.2
	naphthalene	0	1.6
	nitrobenzene	0	1.9
	N-nitrosodimethylamine	0	0.96
	N-nitrosodi-n-propylamine	0	0.84
	N-nitrosodiphenylamine	0	1.9
	phenanthrene	0	5.4
	pyrene	0	1.9
1,2,4-trichlorobenzene	0	1.9	

	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Pesticides	aldrin	0	0.004
	alpha-BHC	0	0.003
	beta-BHC	0	0.006
	gamma-BHC	0	0.004
	delta-BHC	0	0.009
	chlordane	0	0.014
	4,4'-DDT	0	0.012
	4,4'-DDE	0	0.004
	4,4'-DDD	0	0.011
	dieldrin	0	0.002
	alpha-endosulfan	0	0.01
	beta-endosulfan	0	0.004
	endosulfan sulfate	0	0.066
	endrin	0	0.006
	endrin aldehyde	0	0.023
	heptachlor	0	0.003
	heptachlor epoxide	0	0.01
	PCB 1242	0	0.2
	PCB 1254	0	0.2
	PCB 1221	0	0.2
PCB 1232	0	0.2	
PCB 1248	0	0.2	
PCB 1260	0	0.2	
PCB 1016	0	0.2	
toxaphene	0	0.24	

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											

2009 Industrial Pretreatment Year

There were no industrial users in significant noncompliance so newspaper publication was not necessary for the 2009 industrial pretreatment year.

Attachment C
Pretreatment Program Status Report
Updated Significant Industrial Users List

Industrial User	SIC Code/ NAICS Code	Categorical Determination	Y or N	Control Document		New User or Newly ID	Times Inspected	Times Sampled (SIU+POTW / POTW sampling)	Compliance Status ¹				Nature of Violation
				Effective Date/ Action	90-Day Compli- ance				Reports			Efflu- ent Limits	
									B M R	Semi Annual	Self Monitor- ing		
K-D Tools (Danaher Tool Group), 2900 City Lake Road	3423/332212	40 CFR 433	Y	090106/ Reissued 12/21/09 Voided	No	2	46/1	NA	NA	C	NC	NC	Compliance statement not indicating violation called in & in report. Data reporting errors. Daily zinc > 2.61 mg/L (2.79)
Marshalltown Company, 2200 Industrial Drive	3423/332212	40 CFR 433	Y	120108/ Reissued	No	2	3/1	NA	NA	C	C	C	
Pinnacle Foods Corporation, 100 W 15 th St.	2038/311412	Non- Categorical	Y	060105/ Reissued	No	2	156/4	NA	NA	C	NC	C	Report 3 days late
Superior Industries International Arkansas, LLC, 1901 Borrick Dr.	3714/336399	40 CFR 433	Y	110108/ Reissued	No	2	25/1	NA	NA	C	C	C	
Tyson Foods, Inc., 2615 S. School	2038/311412 2099/31183	Non- Categorical	Y	030105/ Reissued	No	1	364/4	NA	NA	C	NC	NC	pH < 5 (4.1). Not reporting pH violation.

PRETREATMENT PERFORMANCE SUMMARY

NOTE: All questions refer to the industrial pretreatment program as approved by ADEQ.
The Permittee should not answer the questions based on changes made to the approved program without Department authorization.

I. General Information

Control Authority: **City of Fayetteville**
1400 N Fox Hunter Road
Fayetteville, AR 72701

Contact Person: Denise Georgiou, IPC
(479) 443-3292

NPDES No.: **AR0020010**

Reporting Period: January 2009 - December 2009

Total Categorical IUs: 5

Total Significant Noncategorical IUs: 4

Total Non-Significant (yet permitted) IUs: 0

The following certification must be signed in order for this form to be considered complete:

I certify that the information contained herein is complete and accurate to the best of my knowledge.



David Jurgens, P.E.
Utilities Director
Authorized Representative

22 MAY 10
Date

II. Significant Industrial User Compliance

Significant Industrial Users	
Categorical	Noncategorical

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	

III. Compliance Monitoring Program

1) No. of Control Documents Issued/No. Required.....	5 / 5	4 / 4
2) No. of Nonsampling inspections Conducted.....	10	5
3) No. of Sampling Visits Conducted.....	5	13
4) No. of Facilities Inspected (nonsampling).....	5	4
5) No. of Facilities Sampled.....	5	4

IV. Enforcement Actions

1) Compliance Schedules Issued/Schedules Required.....	0 / 0	0 / 0
2) Notices of Violation Issued to SIUs.....	1	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

PPS Program Report

* NPDES ID:

AR 0020010

Permittee's Name Fayetteville

* Report Received/Event Date:

06/01/2010

Date 6-21-2010

Report Type

- Biosolids Program Report
- CAFO Annual Report
- CSO Event Report
- Local Limits Report
- MS4 Program Report

- Pretreatment Performance Summary Report
- SSO Annual Report
- SSO Event Report
- SSO Monthly Event Report
- Storm Water Event Report

Report Information

* Pretreatment Performance Summary Start Date: 01/01/2009

Significant Industrial Users (SIUs)

- SIUs: 8
- SIUs Without Control Mechanism: 0
- SIUs Not Inspected: 0
- SIUs Not Sampled: 0
- SIUs in SNC with Pretreatment Standards: 0
- SIUs in SNC with Reporting Requirements: 0
- SIUs in SNC with Pretreatment Schedule: 0
- SIUs in SNC Published in Newspaper: 0
- SIUs Schedules: 0
- Violation Notices Issued to SIUs: 2
- Administrative Orders Issued to SIUs: 0
- Civil Suits Filed Against SIUs: 0
- Criminal Suits Filed Against SIUs: 0

Categorical Industrial Users (CIUs)

- CIUs: 4
- CIUs in SNC: 0

Penalties

- Dollar Amount of Penalties Collected: \$ 0
- Industrial Users (IUs) from which Penalties have been collected: 0

Other Information

- SUO Reference: _____
- SUO Date: _____
- Annual Pretreatment Budget: \$ _____
- Pass-Through/Interference Indicator:
- Adoption of IU Schedule for Remedial Measures: No
- Local Response to Violation of IU Schedule for Remedial Measures:

Local Limits

- Date of Most Recent Technical Evaluation & or Local Limits: _____
 - Date of Most Recent Adoption of Technically Based Local Limits: _____
 - Local Limit Pollutants: _____
- ADD / REMOVE

Removal Credits

- Removal Credits Application Status: Not Applicable
 - Date of Most Recent Removal Credits Approval: _____
 - Removal Credits: _____
- ADD / REMOVE

Acceptance of Waste

- Acceptance of Hazardous Waste: No
- Acceptance of Non-Hazardous Industrial Waste: No
- Acceptance of Hauled Domestic Wastes: No

Deficiencies

- Deficiencies Identified During IU File Review: No
- Control Mechanism Deficiencies: No
- Legal Authority Deficiencies: No
- Deficiencies in Data Management and Public Participation: No
- Deficiencies in Interpretation and Application of Pretreatment Standards: No
- Inadequacy of Sampling and Inspections: No
- Adequacy of Pretreatment Resources: Yes

Annual Frequency

- Annual Frequency of Influent Toxicant Sampling: _____
- Annual Frequency of Effluent Toxicant Sampling: _____
- Annual Frequency of Sludge Toxicant Sampling: _____

CITY OF FAYETTEVILLE, AR

CITY OF FAYETTEVILLE WEST SIDE WWTP INDUSTRIAL PRETREATMENT PROGRAM ANNUAL REPORT

NPDES PERMIT # AR0050288

**PROGRAM YEAR
January 2009 - December 2009**

Submitted by:

City of Fayetteville
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David Jurgens, P.E.
Utilities Director

May 2010

PRETREATMENT PROGRAM STATUS REPORT

Overview

CH2M HILL has a contract with the City of Fayetteville to administer the industrial pretreatment program. This report was prepared in accordance with Part III, 7, D of City of Fayetteville NPDES permit # AR0050288 effective December 1, 2005.

In May 2008, Fayetteville's West Side WWTP went online with approximately half the flow diverted from the Noland Plant to the West Side. All significant industrial user discharges and hauled septic tank waste flow remains at the Noland Plant.

POTW Monitoring Efforts

A chart summarizing the POTW monitoring program is contained in Attachment A. Samples of influent and effluent were analyzed to fulfill requirements contained in NPDES Permit # AR0050288, Part III, 7, C. Results from monitoring conducted in the program year are contained in Attachment B.

Control Mechanisms

No significant industrial users discharge to the West Side WWTP, therefore no permits have been issued, no inspection and monitoring of SIU's was conducted, there is no Significant Industrial User List, Pretreatment Performance Summary, Summary of Enforcement Actions for significant violators, and 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 technically based local limits were derived from Noland POTW data only. The Noland and West Side local limits will be evaluated when sufficient data is collected. The sewer use ordinance is codified. No changes were made during the pretreatment year.

Change in Pollutants

There was no significant change in pollutants.

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: January 2009 TO December 2009
TREATMENT PLANT: City of Fayetteville West Side WWTP NPDDES PERMIT #AR0050288
AVERAGE POTW FLOW: 6.3 MGD % IU FLOW: 0%

METALS, CYANIDE and PHENOLS	MAHC (Total) (µg/L) (2)	INFLUENT DATES SAMPLED (µg/L) Once/quarter				WQ level/ limit (µg/L) (2)	EFFLUENT DATES SAMPLED (µg/L) Once/quarter				LABORATORY ANALYSIS		
		Date	Date	Date	Date		Date	Date	Date	Date	EPA MQL (µg/L) (1)	EPA Method Used (1)	Detection Level Achieved (µg/L)
		2/26/09	4/17/09*	7/22/09	10/22/09**		2/25/09***	4/16/09	7/22/09	10/22/09***			
Antimony	N/A	0	0	0	0	N/A	0	0	0	0	60	200.8	60
Cadmium	21.2	0	0	2.4	0	7	0	0	0.54	0	0.5	200.8	0.5
Copper	456.44	50	22	31	40	41.08	2.9	1.2	2.1	5.4	0.5	200.8	0.5
Lead	74.91	1.4	0.62	3.8	1.2	18.73	0	0	2.7	0	0.5	200.8	0.5
Mercury	0.03	0.0042	0.0082	0	0.027	0.01	0	0	0	0	0.005	245.7	0.0018, 0.005
Nickel	844.04	7.4	6.1	9.2	8.4	422.02	3.5	4.7	5.7	6.1	0.5	200.8	0.5
Selenium	11.16	0	0	0	0	5.58	0	0	0	0	5	200.8	5
Silver	86.74	2.5	0.8	1.5	1.0	19.95	0	0	0	0	0.5	200.8	0.5
Zinc	300.00	120	59	140	99	372.89	48	27	42	26	20	200.8	20
Chromium	1000.0	0	0	0	0	1255.02	0	0	0	0	10	200.8	10
Cyanide	18.72	0	0	0	0	5.80	0	0	0	0	10	SM4500- CN,C,E	5
Arsenic	100.0	0	0	1.0	0	342.39	0	0	0.5	0	0.5	200.8	0.5
Molybdenum	200.0	14	0	0	0	N/A	0	0	0	0	--	200.8	8
Phenols	N/A	110	110	39	28	N/A	33	0	0	0	5	420.1	5
Beryllium	11.83	0	0	0	0	5.91	0	0	0	0	0.5	200.8	0.5
Thallium	N/A	0	0	1.5	0	N/A	0	0	0	1.6	0.5	200.8	0.5
Flow, MGD	N/A	5.06	7.23	6.26	6.54	N/A	5.07	8.15	6.19	6.91			

* All parameters were sampled 4/17/09 except mercury, cyanide, and phenols Influent sample date is 4/16/09.
 ** All parameters were sampled 10/22/09 except mercury Influent and Effluent sample date is 10/20/09.
 *** All parameters were sampled 2/25/09 except mercury, cyanide, and phenols Effluent sample date is 2/26/09.

West Side

Sample	Parameter	Analyst	Type	Frequency	Purpose
Belt Filter Press	PCB	Outside Services	Grab	1/year	Pretreatment/Sludge/NPDES
	TCLP	Outside Services	Grab	1/year	Pretreatment/Sludge/NPDES
	%TS - Cake	Operations	Grab	1/Truck	Sludge/NPDES
	%TS - Pre-cake	Operations	Grab	1/Truck	Sludge/NPDES
Irrigation Water/Wetlands	%TS Filtrate	Lab	Grab		Sludge/NPDES
	Paint Filter Test	Outside Services	Grab	Annually	Landfill Certification
Grit and Screenings	Flow	Operations	In-Situ	Daily	-
	TCLP	Outside Services	Grab	Annually	Landfill Certification

(1) It is advised that the influent and effluent samples are collected considering flow detention time through each plant. **Analytical MQLs must be met for the effluent (and SHOULD be met for the influent) so the data can also be used for Local Limits assessment and NPDES application purposes.**

(2) This value was calculated during the development of TBL based on State WQ criteria, EPA guidance and either ADEQ Pretreatment staff Excel spreadsheets or the Permittee's consultant with concurrence from Pretreatment staff. Table & values provided by R. Torrence of ADEQ in a letter dated October 1, 2009.

(3) Record the name of any pollutant [40 CFR 122, Appendix D, Table II and/or Table V] detected and the concentration at which they were detected.

MAHL - Maximum Allowable Headworks Level / MAHC - Maximum Allowable Headworks Concentration

WQ - "Water Quality Levels not to exceed" OR actual permit limit.

Influent – Table II

Volatiles	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
	acrolein	0	50
	acrylonitrile	0	20
	benzene	0	4.4
	bromoform	0	4.7
	carbon tetrachloride	0	2
	chlorobenzene	0	6
	chlorodibromomethane	0	3.1
	chloroethane	0	8.7
	2-chloroethylvinyl ether	0	5.1
	chloroform	4.2	1.6
	dichlorobromomethane	0	2.2
	1, 1-dichloroethane	0	4.7
	1,2-dichloroethane	0	2.8
	1,1-dichloroethylene	0	2.8
	1,2-dichloropropane	0	6
	cis-1,3-dichloropropylene	0	5
	trans-1,3-dichloropropylene	0	1.3
	ethylbenzene	0	7.2
	methyl bromide	0	8.9
	methyl chloride	0	7.8
	methylene chloride	0	10
	1,1,2,2-tetrachloroethane	0	6.9
	tetrachloroethylene	0	4.1
	toluene	0	6
	1,2-trans-dichloroethylene	0	1.6
	1,1,1-trichloroethane	0	3.8
	1,1,2-trichloroethane	0	5
	trichloroethylene	0	1.9
	vinyl chloride	0	6.4

Acids	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
	2-chlorophenol	0	33
	2,4-dichlorophenol	0	27
	2,4-dimethylphenol	0	27
	4,6-dinitro-o-cresol	0	240
	2,4-dinitrophenol	0	420
	2-nitrophenol	0	36
	4-nitrophenol	0	2.4
	p-chloro-m-cresol	0	30
	pentachlorophenol	0	36
	phenol	0	15
	2,4,6-trichlorophenol	0	27
	acenaphthene	0	19
	acenaphthylene	0	35
	anthracene	0	19
	benzidine	0	440
	benzo(a)anthracene	0	50
	benzo(a)pyrene	0	25
	3,4-benzofluoranthene	0	48
	benzo(g,h,i)perylene	0	41
	benzo(k)fluoranthene	0	25
	bis(2-chloroethoxy)methane	0	53
	bis(2-chloroethyl)ether	0	57
	bis(2-chloroisopropyl)ether	0	57
	bis(2-ethylhexyl)phthalate	0	25
	4-bromophenyl phenyl ether	0	19
	butylbenzyl phthalate	0	25
	2-chloronaphthalene	0	19
	4-chlorophenyl phenyl ether	0	42
	chrysene	0	25

Base/Neutral

Influent – Table II (con't)

Base/Neutral	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
	dibenzo(a,h)anthracene	0	25
	1,2-dichlorobenzene	0	1.9
	1,3-dichlorobenzene	0	1.9
	1,4-dichlorobenzene	0	4.4
	3,3'-dichlorobenzidine	0	50
	diethyl phthalate	0	19
	dimethyl phthalate	0	16
	di-n-butyl phthalate	0	25
	2,4-dinitrotoluene	0	57
	2,6-dinitrotoluene	0	19
	di-n-octyl phthalate	0	25
	1,2-diphenylhydrazine	0	110
	fluoranthene	0	22
	fluorene	0	19
	hexachlorobenzene	0	19
	hexachlorobutadiene	0	9
	hexachlorocyclopentadiene	0	50
	hexachloroethane	0	16
	indeno(1,2,3-cd)pyrene	0	37
	isophorone	0	22
	naphthalene	0	16
	nitrobenzene	0	19
	N-nitrosodimethylamine	0	9.6
	N-nitrosodi-n-propylamine	0	8.4
	N-nitrosodiphenylamine	0	19
	phenanthrene	0	54
	pyrene	0	19
	1,2,4-trichlorobenzene	0	19

Pesticides	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
	aldrin	0	0.02
	alpha-BHC	0	0.015
	beta-BHC	0	0.03
	gamma-BHC	0	0.02
	delta-BHC	0	0.045
	chlordane	0	0.07
	4,4'-DDT	0	0.06
	4,4'-DDE	0	0.02
	4,4'-DDD	0	0.055
	dieldrin	0	0.01
	alpha-endosulfan	0	0.07
	beta-endosulfan	0	0.02
	endosulfan sulfate	0	0.33
	endrin	0	0.03
	endrin aldehyde	0	0.12
	heptachlor	0	0.015
	heptachlor epoxide	0	0.05
	PCB 1242	0	1
	PCB 1254	0	1
	PCB 1221	0	1
	PCB 1232	0	1
	PCB 1248	0	1
	PCB 1260	0	1
	PCB 1016	0	1
	toxaphene	0	1.2

Effluent – Table II

Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Volatiles		
acrolein	0	50
acrylonitrile	0	20
benzene	0	4.4
bromoform	0	4.7
carbon tetrachloride	0	2
chlorobenzene	0	6
chlorodibromomethane	0	3.1
chloroethane	0	8.7
2-chloroethylvinyl ether	0	5.1
chloroform	0	1.6
dichlorobromomethane	0	2.2
1, 1-dichloroethane	0	4.7
1,2-dichloroethane	0	2.8
1,1-dichloroethylene	0	2.8
1,2-dichloropropane	0	6
cis-1,3-dichloropropylene	0	5
trans-1,3-dichloropropylene	0	1.3
ethylbenzene	0	7.2
methyl bromide	0	8.9
methyl chloride	0	7.8
methylene chloride	0	10
1,1,2,2-tetrachloroethane	0	6.9
tetrachloroethylene	0	4.1
toluene	0	6
1,2-trans-dichloroethylene	0	1.6
1,1,1-trichloroethane	0	3.8
1,1,2-trichloroethane	0	5
trichloroethylene	0	1.9
vinyl chloride	0	6.4
Acids		
Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
2-chlorophenol	0	3.3
2,4-dichlorophenol	0	2.7
2,4-dimethylphenol	0	2.7
4,6-dinitro-o-cresol	0	24
2,4-dinitrophenol	0	42
2-nitrophenol	0	3.6
4-nitrophenol	0	2.4
p-chloro-m-cresol	0	3
pentachlorophenol	0	3.6
phenol	0	1.5
2,4,6-trichlorophenol	0	2.7
acenaphthene	0	1.9
acenaphthylene	0	3.5
anthracene	0	1.9
benzidine	0	44
benzo(a)anthracene	0	5
benzo(a)pyrene	0	2.5
3,4-benzofluoranthene	0	4.8
benzo(g,h,i)perylene	0	4.1
benzo(k)fluoranthene	0	2.5
bis(2-chloroethoxy)methane	0	5.3
bis(2-chloroethyl)ether	0	5.7
bis(2-chloroisopropyl)ether	0	5.7
bis(2-ethylhexyl)phthalate	8.4	2.5
4-bromophenyl phenyl ether	0	1.9
butylbenzyl phthalate	0	2.5
2-chloronaphthalene	0	1.9
4-chlorophenyl phenyl ether	0	4.2
chrysene	0	2.5
Base/Neutral		

Effluent -- Table II (con't)

	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Base/Neutral	dibenzo(a,h)anthracene	0	2.5
	1,2-dichlorobenzene	0	1.9
	1,3-dichlorobenzene	0	1.9
	1,4-dichlorobenzene	0	4.4
	3,3'-dichlorobenzidine	0	5
	diethyl phthalate	0	1.9
	dimethyl phthalate	0	1.6
	di-n-butyl phthalate	0	2.5
	2,4-dinitrotoluene	0	5.7
	2,6-dinitrotoluene	0	1.9
	di-n-octyl phthalate	0	2.5
	1,2-diphenylhydrazine	0	11
	fluoranthene	0	2.2
	fluorene	0	1.9
	hexachlorobenzene	0	1.9
	hexachlorobutadiene	0	0.9
	hexachlorocyclopentadiene	0	5
hexachloroethane	0	1.6	
indeno(1,2,3-cd)pyrene	0	3.7	
isophorone	0	2.2	
naphthalene	0	1.6	
nitrobenzene	0	1.9	
N-nitrosodimethylamine	0	0.96	
N-nitrosodi-n-propylamine	0	0.84	
N-nitrosodiphenylamine	0	1.9	
phenanthrene	0	5.4	
pyrene	0	1.9	
1,2,4-trichlorobenzene	0	1.9	

	Pollutant (ug/L)	7/16/2009 ug/L	Detection Level ug/L
Pesticides	aldrin	0	0.004
	alpha-BHC	0	0.003
	beta-BHC	0	0.006
	gamma-BHC	0	0.004
	delta-BHC	0	0.009
	chlordane	0	0.014
	4,4'-DDT	0	0.012
	4,4'-DDE	0	0.004
	4,4'-DDD	0	0.011
	dieldrin	0	0.002
	alpha-endosulfan	0	0.01
	beta-endosulfan	0	0.004
	endosulfan sulfate	0	0.066
	endrin	0	0.006
	endrin aldehyde	0	0.023
	heptachlor	0	0.003
	heptachlor epoxide	0	0.01
PCB 1242	0	0.2	
PCB 1254	0	0.2	
PCB 1221	0	0.2	
PCB 1232	0	0.2	
PCB 1248	0	0.2	
PCB 1260	0	0.2	
PCB 1016	0	0.2	
toxaphene	0	0.24	