# AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended, Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. 1251 et seq.),

City of Rogers 4300 Rainbow Rd. Rogers, AR 72758

is authorized to discharge from a facility located at 4300 Rainbow Road, 2.7 miles south of the intersection of SE Walton Boulevard and Rainbow Road in Bentonville, Arkansas in Sections 19 and 30, Township 19 North, Range 30 West in Benton County, Arkansas

Latitude: 36° 17' 53"; Longitude: 94° 12' 50"

to receiving waters named:

Outfall 001: Osage Creek, thence to the Illinois River, thence to the Arkansas River in Segment 3J of the Arkansas River Basin. Latitude: 36° 18' 07"; Longitude: 94° 12' 58"

Outfall 002: Pinnacle Golf Course - "C" Lake; Latitude: 36° 17' 57"; Longitude: 94° 12' 04"

Discharge shall be in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and IV hereof. Response to comments is attached

Issue Date: January 31, 2006

Modification issue Date: September 30, 2006

Effective Date: March 1, 2006 Modified effective Date: November 1, 2006 Expiration Date: February 28, 2011

Martin Maner, P.E.

Chief, Water Division

Arkansas Department of Environmental Quality

Permit number: AR0043397 Page 1 of Part IA

# PART I PERMIT REQUIREMENTS

**SECTION A. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS:** OUTFALL 001 (design flow of 6.7mgd) - treated municipal wastewater

During the period beginning on the effective date of the permit and lasting until three years from the effective date of the permit, the permittee is authorized to discharge from outfall serial number 001. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitations			Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow <sup>1</sup>	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)					
(May-Oct)	558.8	10	15	Once/week	24-hr composite
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite
Total Suspended Solids (TSS)					
(May-Oct)	838.2	15	23	Once/week	24-hr composite
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite
Ammonia Nitrogen (NH3-N)					
(April)	134.1	2.4	5.7	Once/week	24-hr composite
(May-Oct)	83.8	1.5	2.3	Once/week	24-hr composite
(Nov-March)	223.5	4	6	Once/week	24-hr composite
Dissolved Oxygen <sup>2</sup>					
(May-Oct)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-April)	N/A	10 Min	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC) <sup>3</sup>	N/A	0.1 mg/l (	Inst. Max.)	Three/week	Continuous
Phosphorus, Total	55.9	1	Report	Once/week	24-hr composite
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethality (7-day NOEC) <sup>4,5</sup> 2241	Daily Average Min not < 68 %		lay Minimum ot < <b>68</b> %	Once/quarter	24-hr composite

Permit number: AR0043397 Page 2 of Part IA

Pimephales promelas (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Growth (7-day NOEC) TGP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP6C	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP6C	Report %	Once/quarter	24-hr composite
Growth (7-day NOEC) TPP6C	Report %	Once/quarter	24-hr composite
	_	_	
Ceriodaphnia dubia (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Production (7-day NOEC) TGP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP3B	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP3B	Report %	Once/quarter	24-hr composite
Reproduction (7-day NOEC) TPP3B	Report %	Once/quarter	24-hr composite

- 1 Report monthly average and daily maximum as MGD. See Condition No. 13 of Part III.
- 2 The monthly average Dissolved Oxygen must be equal or above the specified limit.
- 3. See Condition No. 10 of Part III.
- 4 See Condition No. 9 of Part III.
- The daily average lethality and 7-day minimum lethality (7-day NOEC) value shall not be less than **68** % effluent. The daily average lethality (7-day NOEC) value is defined as the greatest effluent concentration which does not elicit <u>lethality</u> that is statistically different from the control (0% effluent) at the 95% confident level.

There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit.

Permit number: AR0043397 Page 3 of Part IA

# PART I PERMIT REQUIREMENTS

**SECTION A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS:** OUTFALL 001 (design flow of 6.7mgd) - treated municipal wastewater

During the period beginning three years after the effective date of the permit, and lasting until date of expiration, the permittee is authorized to discharge from outfall serial number 001. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	<u>Discharge Limitations</u>			Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow <sup>1</sup>	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)					
(May-Oct)	558.8	10	15	Once/week	24-hr composite
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite
Total Suspended Solids (TSS)					
(May-Oct)	838.2	15	23	Once/week	24-hr composite
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite
Ammonia Nitrogen (NH3-N)					
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(May-Oct)	83.8	1.5	2.3	Once/week	24-hr composite
(Nov-March)	223.5	4	6	Once/week	24-hr composite
Dissolved Oxygen <sup>2</sup>					
(May-Oct)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-April)	N/A	10 Min	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC) <sup>3</sup>	N/A	0.1 mg/l (	Inst. Max.)	Three/week	Continuous
Phosphorus, Total	55.9	1	2	Once/week	24-hr composite
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethality (7-day NOEC) <sup>4,,5</sup> 2241	Daily Average Min not < 68 %	Daily Average Minimum 7-day Minimum			24-hr composite

Permit number: AR0043397 Page 4 of Part IA

Pimephales promelas (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Growth (7-day NOEC) TGP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP6C	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP6C	Report %	Once/quarter	24-hr composite
Growth (7-day NOEC) TPP6C	Report %	Once/quarter	24-hr composite
	_		
Ceriodaphnia dubia (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Production (7-day NOEC) TGP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP3B	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP3B	Report %	Once/quarter	24-hr composite
Reproduction (7-day NOEC) TPP3B	Report %	Once/quarter	24-hr composite

- 1 Report monthly average and daily maximum as MGD. See Condition No. 13 of Part III.
- 2 The monthly average Dissolved Oxygen must be equal or above the specified limit.
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- See Condition No. 9 of Part III.
- The daily average lethality and 7-day minimum lethality (7-day NOEC) value shall not be less than **68** % effluent. The daily average lethality (7-day NOEC) value is defined as the greatest effluent concentration which does not elicit <u>lethality</u> that is statistically different from the control (0% effluent) at the 95% confident level.

There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit.

Permit number: AR0043397 Page 5 of Part IA

# PART I PERMIT REQUIREMENTS

**SECTION A. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS:** OUTFALL 001 (design flow of 14 mgd) - treated municipal wastewater

During the period beginning on the effective date of the permit and lasting until three years from the effective date of the permit, the permittee is authorized to discharge from outfall serial number 001. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	<u>Discharge Limitations</u>			Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow <sup>1</sup>	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)					
(May-Oct)	1,168	10	15	Three/week	24-hr composite
(Nov-Apr)	1,751	15	23	Three/week	24-hr composite
Total Suspended Solids (TSS)					
(May-Oct)	1,751	15	23	Three/week	24-hr composite
(Nov-Apr)	2,335	20	30	Three/week	24-hr composite
Ammonia Nitrogen (NH3-N)					
(April)	234	2.0	4.5	Three/week	24-hr composite
(May-Oct)	175	1.5	2.3	Three/week	24-hr composite
(Nov-March)	350	3.0	4.5	Three/week	24-hr composite
Dissolved Oxygen <sup>2</sup>					
(May-October)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-April)	N/A	10 Min	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC) <sup>3</sup>	N/A	0.1 mg/l (	Inst. Max.)	Three/week	Continuous
Phosphorus, Total	117	1	Report	Three/week	24-hr composite
pH	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethality (7-day NOEC) <sup>4,5</sup> 2241	Daily Average Min not < 82 %		lay Minimum ot < <b>82</b> %	Once/quarter	24-hr composite

Permit number: AR0043397 Page 6 of Part IA

Pimephales promelas (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Growth (7-day NOEC) TGP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP6C	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP6C	Report %	Once/quarter	24-hr composite
Growth (7-day NOEC) TPP6C	Report %	Once/quarter	24-hr composite
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Pass/Fail Lethality (7-day NOEC) TLP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Production (7-day NOEC) TGP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP3B	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP3B	Report %	Once/quarter	24-hr composite
Reproduction (7-day NOEC) TPP3B	Report %	Once/quarter	24-hr composite

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- \* Five/week-Monday-Friday

There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit.

Permit number: AR0043397 Page 7 of Part IA

# PART I PERMIT REQUIREMENTS

**SECTION A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS:** OUTFALL 001 (design flow of 14 mgd) - treated municipal wastewater

During the period beginning three years after the effective date of the permit, and lasting until date of expiration, the permittee is authorized to discharge from outfall serial number 001. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	<u>Discharge Limitations</u>			<b>Monitoring Requirements</b>	
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow <sup>1</sup>	N/A	Report	Report	Daily	Totalizing meter
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(Nov-March)	350	3.0	4.5	Three/week	24-hr composite
Dissolved Oxygen <sup>2</sup>					
(May-October)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-April)	N/A	10 Min	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC) <sup>3</sup>	N/A	0.1 mg/l (	Inst. Max.)	Three/week	Continuous
Phosphorus, Total	117	1	2	Three/week	24-hr composite
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethality (7-day NOEC) <sup>4,5</sup> 2241	Daily Average Minimum         7-day Minimum           not < 82 %			Once/quarter	24-hr composite

Permit number: AR0043397 Page 8 of Part IA

Pimephales promelas (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Growth (7-day NOEC) TGP6C	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP6C	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP6C	Report %	Once/quarter	24-hr composite
Growth (7-day NOEC) TPP6C	Report %	Once/quarter	24-hr composite
Ceriodaphnia dubia (Chronic) <sup>4</sup>	7-Day Average		
Pass/Fail Lethality (7-day NOEC) TLP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Pass/Fail Production (7-day NOEC) TGP3B	Report (Pass=0/Fail=1)	Once/quarter	24-hr composite
Survival (7-day NOEC) TOP3B	Report %	Once/quarter	24-hr composite
Coefficient of Variation TQP3B	Report %	Once/quarter	24-hr composite
Reproduction (7-day NOEC) TPP3B	Report %	Once/quarter	24-hr composite

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- The daily average lethality and 7-day minimum lethality (7-day NOEC) value shall not be less than **82** % effluent. The daily average lethality (7-day NOEC) value is defined as the greatest effluent concentration which does not elicit **lethality** that is statistically different from the control (0% effluent) at the 95% confident level.
- \* Five/week-Monday-Friday

There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit.

Permit number: AR0043397 Page 9 of Part IA

#### PART I PERMIT REQUIREMENTS

# SECTION A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 002-treated municipal wastewater

During the period beginning on the effective date of the permit and lasting until date of expiration, the permittee is authorized to discharge from outfall serial number 002. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Disch	<u>Discharge Limitations</u>			Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type	
	Monthly Avg.	Monthly Avg.	7-Day Avg.			
Flow <sup>1</sup>	N/A	Report	Report	Daily	Totalizing meter	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	N/A	10	15	Once/week	24-hr composite	
Total Suspended Solids (TSS)	N/A	15	23	Once/week	24-hr composite	
Fecal Coliform Bacteria (FCB)		(colonies/100ml)				
	N/A	200	400	Once/week	Grab	
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous	

#### 1 Report monthly average and daily maximum as MGD.

There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit and prior to discharge toPinnacle Golf Course "C" Lake. The sample taken for compliance with Outfall 001 monitoring requirements can be used for compliance with monitoring requirements at Outfall 002.

Permit number: AR0043397 Page 1 of Part IB

# SECTION B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

# Outfall 001:

Compliance with the Interim Effluent Limitations for the 7 day average Total Phosphorus: Effective date of this modified permit

Submit progress reports: One year from the effective date of the permit

Two years from the effective date of the permit

Compliance with the Final Effluent Limitations for the 7 day average Total Phosphorus: Three years from the effective date of the modified permit

# Outfall 002:

Compliance is required on the effective date of the permit.

Page 1 of Part II

# PART II STANDARD CONDITIONS

#### **SECTION A – GENERAL CONDITIONS**

# 1. <u>Duty to Comply</u>

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Water Act and the Arkansas Water and Air Pollution Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Any values reported in the required Discharge Monitoring Report which are in excess of an effluent limitation specified in Part I shall constitute evidence of violation of such effluent limitation and of this permit.

# 2. Penalties for Violations of Permit Conditions

The Arkansas Water and Air Pollution Control Act provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a fine of not more than ten thousand dollars (\$10,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed ten thousand dollars (\$10,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action.

# 3. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to the following:

- a. Violation of any terms or conditions of this permit; or
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- d. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.
- e. Failure of the permittee to comply with the provisions of APCEC Regulation No. 9 (Permit fees) as required by condition II A.10 herein.

Page 2 of Part II

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

#### 4. <u>Toxic Pollutants</u>

Notwithstanding Part II. A.3., if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Regulation No. 2, as amended, (regulation establishing water quality standards for surface waters of the State of Arkansas) or Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitations on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standards or prohibition and the permittee so notified.

The permittee shall comply with effluent standards, narrative criteria, or prohibitions established under Regulation No. 2 (Arkansas Water Quality Standards), as amended, or Section 307 (a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

# 5. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II.B.4.a.), and "Upsets" (Part II.B.5.b), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of this permit or applicable state and federal statues or regulations which defeats the regulatory purposes of the permit may be subject the permittee to criminal enforcement pursuant to the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended).

# 6. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

# 7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

Page 3 of Part II

# 8. **Property Rights**

The issuance of this permit does not convey any property rights of any sort, or any property rights of any sort, or any exclusive privileges, nor does it authorize any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

# 9. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provisions of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

# 10. Permit Fees

The permittee shall comply with all applicable permit fee requirements for wastewater discharge permits as described in APCEC Regulation No. 9 (Regulation for the Fee System for Environmental Permits). Failure to promptly remit all required fees shall be grounds for the Director to initiate action to terminate this permit under the provisions of 40 CFR 122.64 and 124.5 (d), as adopted in APCEC Regulation No. 6 and the provisions of APCEC Regulation No. 8.

# SECTION B – OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

# 1. Proper Operation and Maintenance

- a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carryout operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

# 2. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or

Page 4 of Part II

discharges or both until the facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power for the treatment facility is reduced, is lost, or alternate power supply fails.

# 3. <u>Duty to Mitigate</u>

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment, or the water receiving the discharge.

# 4. **Bypass of Treatment Facilities**

# a. Bypass not exceeding limitation.

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Part II.B 4.b.and 4 c.

#### b. Notice

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in part II.D.6 (24-hour notice).

#### c. Prohibition of bypass

- (1) Bypass is prohibited and the Director may take enforcement action against a permittee for bypass, unless:
  - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal or preventive maintenance; and
  - (c) The permittee submitted notices as required by Part II.B.4.b.
- (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part II.B.4.c(1).

Page 5 of Part II

# 5. **Upset Conditions**

a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology base permit effluent limitations if the requirements of Part II.B.5.b of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

- b. Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the specific cause(s) of the upset.
  - (2) The permitted facility was at the time being properly operated.
  - (3) The permittee submitted notice of the upset as required by Part II.D.6.: and
  - (4) The permittee complied with any remedial measures required by Part II.B.3.
- c. Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

# 6. **Removed Substances**

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of waste waters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering the waters of the State. Written approval must be obtained from the ADEQ for land application only.

# 7. **Power Failure**

The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators, or retention of inadequately treated effluent.

#### SECTION C - MONITORING AND RECORDS

#### 1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Director. Intermittent discharges shall be monitored.

Page 6 of Part II

# 2. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than +/-10% from true discharge rates throughout the range of expected discharge volumes and shall be installed at the monitoring point of the discharge.

# 3. **Monitoring Procedures**

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to insure accuracy of measurements and shall insure that both calibration and maintenance activities will be conducted. An adequate analytical quality control program, including the analysis of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. At a minimum, spikes and duplicate samples are to be analyzed on 10% of the samples.

# 4. **Penalties for Tampering**

The Arkansas Water and Air Pollution Control Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year or a fine of not more than ten thousand dollars (\$10,000) or by both such fine and imprisonment.

# 5. Reporting of Monitoring Results

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1). Permittees are required to use preprinted DMR forms provided by ADEQ, unless specific written authorization to use other reporting forms is obtained from ADEQ. Monitoring results obtained during the previous calendar month shall be summarized and reported on a DMR form postmarked no later than the 25<sup>th</sup> day of the month, following the completed reporting period to begin on the effective date of the permit. Duplicate copies of DMR's signed and certified as required by Part II.d.11 and all other reports required by Part II.D. (Reporting Requirements), shall be submitted to the Director at the following address:

Page 7 of Part II

NPDES Enforcement Section
Water Division
Arkansas Department of Environmental Quality
8001 National Drive
P.O. Box 8913
Little Rock, AR 72219-8913

If permittee uses outside laboratory facilities for sampling and/or analysis, the name and address of the contract laboratory shall be included on the DMR.

# 6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated on the DMR.

# 7. **Retention of Records**

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

# 8. **Record Contents**

Records and monitoring information shall include:

- a. The date, exact place, time and methods of sampling or measurements, and preservatives used, if any;
  - b. The individuals(s) who performed the sampling or measurements;
  - c. The date(s) analyses were formed;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The measurements and results of such analyses.

# 9. **Inspection and Entry**

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

Page 8 of Part II

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, and
- d. Sample, inspect or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

# **SECTION D – REPORTING REQUIREMENTS**

#### 1. **Planned Changes**

The permittee shall give notice and provide plans and specification to the Director for review and approval prior to any planned physical alterations or additions to the permitted facility. Notice is required only when:

# For Industrial Dischargers

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part122.29(b).
- b. The alternation or addition could significantly change the nature or increase the quality of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40CRF Part 122.42 (a)(1).

#### For POTW Dischargers:

Any change in the facility discharge (including the introduction of any new source or significant discharge or significant changes in the quantity or quality of existing discharges of pollutants) must be reported to the permitting authority. In no case are any new connections, increased flows, or significant changes in influent quality permitted that cause violation of the effluent limitations specified herein.

# 2. **Anticipated Noncompliance**

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

# 3. **Transfers**

The permit is nontransferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

Page 9 of Part II

# 4. **Monitoring Reports**

Monitoring results shall be reported at the intervals and in the form specified in Part II.C.5. (Reporting). **Discharge Monitoring Reports must be submitted even when no discharge occurs during the reporting period.** 

# 5. <u>Compliance Schedule</u>

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

# 6. **Twenty-four Hour Report**

- a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain the following information:
  - (1) a description of the noncompliance and its cause;
  - (2) the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
  - (3) steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.
- b. The following shall be included as information which must be reported within 24 hours:
  - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
  - (2) Any upset which exceeds any effluent limitation in the permit and
  - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part I of the permit to be reported within 24 hours.
- c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

# 7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part II.D.4,5 and 6, at the time monitoring reports are submitted. The reports shall contain the information listed at Part II.D.6.

Page 10 of Part II

# 8. Changes in Discharge of Toxic Substances for Industrial Dischargers

The permittee shall notify the Director as soon as he/she knows or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, in a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" described in 40 CFR Part 122.42(a)(1).
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit if that discharge will exceed the highest of the "notification levels" described in 40 CFR Part 122.42(a)(2).

# 9. **Duty to Provide Information**

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. Information shall be submitted in the form, manner and time frame requested by the Director.

# 10. **Duty to reapply**

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The complete application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated in APCEC Regulation No. 6.

#### 11. Signatory Requirements

All applications, reports or information submitted to the Director shall be signed and certified

- a. All permit applications shall be signed as follows:
  - (1) For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
    - (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation: or
    - (ii) The manager of one or more manufacturing, production, or operation facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and

Permit number: AR0043397 Page 11 of Part II

directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- (2) For a partnership or sole proprietorship: by a general partner or proprietor, respectively; or
- (3) For a municipality, State, Federal, or other public agency; by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
  - (i) The chief executive officer of the agency, or
  - (ii) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- b. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person.

A person is a duly authorized representative only if:

- (1) The authorization is made in writing by a person described above.
- (2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
- (3) The written authorization is submitted to the Director.
- c. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

# 12. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2 and Regulation 6, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department of Environmental Quality. As required by the Regulations, the name and address of any permit applicant or permittee, permit applications, permits and effluent data shall not be considered confidential.

Page 12 of Part II

# 13. Penalties for Falsification of Reports

The Arkansas Air and Water Pollution Control Act provides that any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained under this permit shall be subject to civil penalties specified in Part II.A.2. and/or criminal penalties under the authority of the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended).

Permit number: AR0043397 Page 1 of Part III

# PART III OTHER CONDITIONS

- 1. The operator of this wastewater treatment facility shall be licensed by the State of Arkansas in accordance with Act 211 of 1971, Act 1103 of 1991, Act 556 of 1993, and Regulation No. 3, as amended.
- 2. For publicly owned treatment works, the 30-day average percent removal for Carbonaceous Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR 133.102, as adopted by reference in APCEC Regulation No. 6.
- 3. Produced sludge shall be disposed of by land application only when meeting the following criteria:
  - a. Sewage sludge from treatment works treating domestic sewage (TWTDS) must meet the applicable provisions of 40 CFR Part 503; and
  - b. The sewage sludge has not been classified as a hazardous waste under state or federal regulations.
- 4. The permittee shall give at least 120 days prior notice to the Director of any change planned in the permittee's sludge disposal practice or land use applications, including types of crops grown (if applicable).
- 5. The permittee shall report all overflows with the Discharge Monitoring report (DMR) submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of overflow; observed environmental impacts from the overflow; action taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary.) Overflows which endanger health or the environment shall be orally reported to this department (Enforcement Section of Water Division), within 24 hours from the time the permittee becomes aware of the circumstance. A written report of overflows which endanger health or the environment, shall be provided within 5 days of the time the permittee becomes aware of the circumstance.
- 6. In accordance with 40 CFR Parts 122.62 (a) (2) and 124.5, this permit may be reopened for modification or revocation and/or reissuance to require additional monitoring and/or effluent limitations when new information is received that actual or potential exceedance of State water quality criteria and/or narrative criteria are determined to be the result of the permittee's discharge (s) to water body, or a Total Maximum Daily Load (TMDL) is established or revised for the water body that were not available at the time of permit

Page 2 of Part III

issuance that would have justified the application of different permit conditions at the time of permit issuance.

# 7. Contributing Industries and Pretreatment Requirements

- A. The permittee shall operate an industrial pretreatment program in accordance with Section 402(b)(8) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403) and the approved POTW pretreatment program submitted by the permittee. The pretreatment program was approved on January 13, 1984. Program modifications were subsequently submitted, will be deemed approvable and incorporated by reference on the effective date of this modified permit. The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:
  - 1. Industrial user information shall be updated at a frequency adequate to ensure that all IUs are properly characterized at all times;
  - 2. The frequency and nature of industrial user compliance monitoring activities by the permittee shall be commensurate with the character, consistency and volume of waste. The permittee must inspect and sample the effluent from each Significant Industrial User in accordance with 40 CFR 403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities;
  - 3. The permittee shall enforce and obtain remedies for noncompliance by any industrial users with applicable pretreatment standards and requirements;
  - 4. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable Pretreatment Standards and Requirements. In the case of Industrial Users identified as significant under 40 CFR 403.3 (v), this control shall be achieved through individual or general control mechanisms, in accordance with 40 CFR 403.8(f)(1)(iii). Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:
    - a. Statement of duration (in no case more than five years);
    - b. Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
    - c. Effluent limits, including Best Management Practices, based on applicable general Pretreatment Standards, categorical Pretreatment Standards, local limits, and State and local law;
    - d. Self-monitoring, sampling, reporting, notification and recordkeeping requirements, including an identification of the

Permit number: AR0043397 Page 3 of Part III

pollutants to be monitored (including the process for seeking a waiver for a pollutant neither present nor expected to be present in the Discharge in accordance with § 403.12(e)(2), or a specific waiver for a pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general Pretreatment Standards in 40 CFR 403, categorical Pretreatment Standards, local limits, and State and local law:

- e. Statement of applicable civil and criminal penalties for violation of Pretreatment Standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
- f. Requirements to control slug discharges, if determined by the POTW to be necessary.
- 5. The permittee shall evaluate, whether each Significant Industrial User needs a plan or other action to control slug discharges, in accordance with 40 CFR 403.8(f)(2)(vi);
- 6. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program; and
- 7. The approved program shall not be modified by the permittee without the prior approval of ADEQ.
- B. The permittee shall establish and enforce specific limits to implement the provisions of 40 CFR Parts 403.5(a) and (b), as required by 40 CFR Part 403.5(c). POTWs may develop Best Management Practices (BMPs) to implement paragraphs 40 CFR 403.5 (c)(1) and (c)(2). Such BMPs shall be considered local limits and Pretreatment Standards. Each POTW with an approved pretreatment program shall continue to develop these limits as necessary and effectively enforce such limits.

All specific prohibitions or limits developed under this requirement are deemed to be conditions of this permit. The specific prohibitions set out in 40 CFR Part 403.5(b) shall be enforced by the permittee unless modified under this provision.

C. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in 40 CFR 122 Appendix D (NPDES Application Testing Requirements) Table II at least once/year and the toxic pollutants in Table III at least 4times/year (quarterly). If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least 4 times/year (quarterly) on both the influent and the effluent.

Permit number: AR0043397 Page 4 of Part III

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24 hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR 136. Where composite samples are inappropriate, due to sampling, holding time, or analytical constraints, at least 4 grab samples, taken at equal intervals over a representative 24 hour period, shall be taken.

D. The permittee shall prepare annually a list of Industrial Users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements. For the purposes of this Part, significant noncompliance shall be determined based upon the more stringent of either criteria established at 40 CFR Part 403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually in the newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW during the month of January.

In addition, during the month of January the permittee shall submit an updated pretreatment program status report to EPA and the State containing the following information:

- (1) An updated list of all significant industrial users. The list must also identify Industrial Users subject to categorical Pretreatment Standards that are subject to reduced reporting requirements under 40 CFR 403.12(e)(3), and identify which Industrial Users are Non-Significant Categorical Industrial Users. For each industrial user listed the following information shall be included:
  - a. Standard Industrial Classification (SIC) or NAISC code and categorical determination;
  - b. Control document status. Whether the user has an effective control document and the date such document was last issued, reissued, or modified, (indicate which industrial users were added to the system (or newly identified) within the previous 12 months);
  - c. A summary of all monitoring activities performed within the previous 12 months. The following information shall be reported:
  - (1) total number of inspections performed;
  - (2) total number of sampling visits made;

Page 5 of Part III

d. Status of compliance with both effluent limitations and reporting requirements. Compliance status shall be defined as follows:

- (1) Compliant (C) no violations during the previous 12 month period;
- (2) Non-compliant (NC) one or more violations during the previous 12 months but does not meet the criteria for significantly noncompliant industrial users:
- (3) Significant Noncompliance (SNC) in accordance with requirements described in d. above; and
- e. For significantly noncompliant industrial users, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.) and current compliance status. If ANY industrial user was on a schedule to attain compliance with effluent limits, indicate the date the schedule was issued and the date compliance is to be attained;
- 2. A list of all significant industrial users whose authorization to discharge was terminated or revoked during the preceding 12 month period and the reason for termination;
- 3. A report on any interference, pass through, upset or POTW permit violations known or suspected to be caused by industrial contributors and actions taken by the permittee in response;
- 4. The results of all influent and effluent analyses performed pursuant to Part II(A)(1)(c) above;
- 5. A copy of the newspaper publication of the significantly noncompliant industrial users giving the name of the newspaper and the date published;
- 6. The information requested may be submitted in tabular form as per the example tables provided for your convenience (See Attachment A, B and C); and
- 7. The monthly average water quality based effluent concentration necessary to meet the state water quality standards as developed in the approved technically based local limits.
- E. The permittee shall provide adequate notice of the following:
  - 1. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Act if it were directly discharging those pollutants; and

Page 6 of Part III

2. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works, and (ii) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

#### 4. ADDITIONAL CONDITIONS FOR LAND APPLICATION OF BIOSOLIDS

# A. GENERAL REQUIREMENTS:

- 1. Only biosolids which are not classified as a hazardous waste under state or federal regulations may be land applied.
- 2. Plant Available Nitrogen (PAN) will not be applied at a rate exceeding the annual nitrogen uptake of the crop. At no time will the nitrogen application rate (PAN/acre-year) be allowed to exceed the site specific rate approved by the Department.
- 3. Biosolids with Polychlorinated Biphenyls (PCB's) concentrations equal or greater than 50 mg/kg (dry basis) will not be land applied at any time.
- 4. CEILING CONCENTRATIONS (milligrams per kilogram, dry weight basis): If the biosolids to be land applied exceed any of the pollutant concentrations listed below, the biosolids **may not** be land applied.

Pollutant	<b>Ceiling Concentrations</b>
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Nickel	420
Selenium	100
Zinc	7500

5. CUMULATIVE CONCENTRATION LIMITS: When the cumulative amount of any pollutant land applied to a specific site exceeds any of the loading rates listed below, no more biosolids may be land applied the specific site.

Permit number: AR0043397 Page 7 of Part III

#### **Cumulative Pollutant**

	Loading Rate	
Element	kg/ha	(lbs/ac)
Arsenic	41	(37)
Cadmium	39	(35)
Copper	1500	(1350)
Lead	300	(270)
Mercury	17	(15)
Nickel	420	(378)
Selenium	100	(90)
Zinc	2800	(2520)

- 6. The biosolids generator must issue a signed certification stating that the Pathogen Reduction, Vector Attraction Reduction, and Pollutant Concentration Limits have been met for each time the biosolid is released for disposal. The State requirements on Pathogen Reduction, Vector Attraction Reduction, and Pollutant Concentration Limits are the same as those listed in Federal; Regulation 40 CFR Part 503. All the above information must be made available to the land applicator before the material is delivered. Concurrently, a signed copy of each certification must be also submitted to ADEQ's Water Division.
- 7. The containers used for the transportation of the biosolids must be of the closed type.
- 8. Transportation of the biosolids must be such that will prevent the attraction, harborage or breeding of insects or rodents. It must not produce conditions harmful to public health, the environment, odors, unsightliness, nuisances, or safety hazards.
- 9. Transportation equipment must be leak-proof and kept in a top sanitary conditions at all times. Biosolids must be enclosed or covered as to prevent littering, vector attraction, or any other nuisances.
- 10. The permittee will be responsible for assuring that the land owner, of any land application site not owned by the permittee, and the waste applicator, if different from the permittee, abide by the conditions of this permit.
- 11. Biosolids will be spread evenly over the application area and in no way biosolids will be allowed to enter the waters of the State.

Permit number: AR0043397 Page 8 of Part III

12. Biosolids will not be applied to slopes with a gradient greater than 15%; or to soils that are saturated, frozen or covered with snow, during rain, or when precipitation is imminent.

- 13. The permittee will take all necessary measures to reduce obnoxious and offensive odors. Equipment will be maintained and operated to prevent spillage and leakage.
- 14. Disposal of biosolids in a floodplain will not restrict the flow of the base flood, reduce the temporary storage capacity of the floodplain, or result in a washout of solid waste, so as to pose a hazard to human life, wildlife or land and water uses.
- 15. Biosolids will not be spread within 25 feet of rock outcrops; 50 feet of property lines; 200 feet of drinking water well; 100 feet of lakes, ponds, springs, streams, wetlands, and sinkholes; 300 feet of occupied buildings and streams classified as an "extraordinary resource stream."
- 16. All new land application sites must have a waste management plan approved by the Department prior to land application of biosolids. This may require a permit modification.

# **B.** MONITORING AND REPORTING REQUIREMENTS:

- 1. The permittee will be responsible for the biosolids analyses, soil analyses, and a reporting schedule that must include the following:
  - a. Biosolids Analysis
    - (1) Biosolids samples collected must be representative of the treated biosolids to be land applied. The samples are to be stored in appropriate glass or plastic containers and kept refrigerated or frozen to prevent any change in composition.
    - (2) Quarterly grab samples of the land applied biosolids will be analyzed and results expressed in dry basis in mg/kg, except as otherwise indicated:

Volatile Solids(%) Total Kjeldahl Nitrogen

Total Solids(%)

Nitrate Nitrogen

Nitrite Nitrogen

Total Phosphorus

Total Potassium

Ammonia Nitrogen

Page 9 of Part III

Arsenic Cadmium
Chromium Copper
Lead Mercury
Nickel Selenium
Zinc pH (SU)

# b. Soils Analysis

(1) Each land application site will be soil tested in the Spring prior to application for the following parameters:

Nitrate-Nitrogen Potassium
Phosphorus Magnesium
Arsenic Cadmium
Copper Lead
Selenium Mercury
Nickel pH
Zinc C.E.C.
Electrical Conductivity

# c. Reporting

(1) Annual reports will be sent to the Department and to the owner of the land receiving biosolids **prior to May 1**, which must include the following:

The biosolids and soil analyses conducted under section above (including a statement that the analyses were performed in accordance with EPA Document SW-846, "Test Methods for Evaluation of Solid Waste," or other procedures approved by the Director), application dates and locations, volumes of biosolids applied (in dry tons/acre-year and gallons/acre-year of biosolids), methods of disposal, identity of hauler, and type of crop grown, amounts of nitrogen applied, total elements added that year (lbs/acre), total elements applied to date, and copies of soil analyses for each site.

(2) The permittee will also maintain copies of the above records for Department personnel review at the biosolids generating facility.

Permit number: AR0043397 Page 10 of Part III

# 5. **WHOLE EFFLUENT TOXICITY TEST REQUIREMENT** (WET Limits, 7 DAY CHRONIC, FRESHWATER)

# 1. <u>SCOPE AND METHODOLOGY</u>

a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO OUTFALL(S): **001(design flow of 6.7 mgd)** 

REPORTED ON DMR AS OUTFALL: TX1Q

CRITICAL DILUTION: 68 %

EFFLUENT DILUTION SERIES: 29%, 38%, 51%, 68%, 89%

TEST SPECIES/METHODS: 40 CFR Part 136

APPLICABLE TO OUTFALL(S): 001(design flow of 14 mgd)

REPORTED ON DMR AS OUTFALL: TX10

CRITICAL DILUTION: 82 %

EFFLUENT DILUTION SERIES: 26%, 35%, 46%, 62%, 82%

TEST SPECIES/METHODS: 40 CFR Part 136

<u>Ceriodaphnia dubia</u> chronic static renewal survival and reproduction test, Method 1002.0, EPA/600/4-91/002 or the most recent update thereof. This test should be terminated when 60% of the surviving adults in the control produce three broods.

<u>Pimephales promelas</u> (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA/600/4-91/002, or the most recent update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test.

b. The NOEC (No Observed Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. Chronic lethal test

Page 11 of Part III

failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution.

- c. When the testing frequency stated above is less than monthly and the effluent fails the survival endpoint at the critical dilution, the permittee shall be considered in violation of this permit limit and the frequency for the affected species will increase to monthly until such time compliance with the Lethal No Observed Effluent Concentration (NOEC) effluent limitation is demonstrated for a period of three consecutive months, at which time the permittee may return to the testing frequency stated in Part I of this permit. During the period the permittee is out of compliance, test results shall be reported on the DMR for that reporting period.
- d. This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.
- e. Test failure is defined as a demonstration of statistically significant sub-lethal or lethal effects to a test species at or below the effluent critical dilution.

# 2. REQUIRED TOXICITY TESTING CONDITIONS

# a. <u>Test Acceptance</u>

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

- i. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.
- ii. The mean number of <u>Ceriodaphnia dubia</u> neonates produced per surviving female in the control (0% effluent) must be 15 or more.
- iii. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.
- iv. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the Ceriodaphnia dubia reproduction test, the growth and survival of the Fathead minnow test.
- v. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, <u>unless</u> significant lethal or nonlethal effects are exhibited for: the young of surviving females in the Ceriodaphnia dubia

Page 12 of Part III

reproduction test; the growth and survival endpoints in the Fathead minnow test.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

# b. <u>Statistical Interpretation</u>

i. For the <u>Ceriodaphnia dubia</u> survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA/600/4-91/002, or the most recent update thereof.

If the conditions of Test Acceptability are met in Item 2.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report an NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 3 below.

ii. For the <u>Ceriodaphnia dubia</u> reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA/600/4-91/002, or the most recent update thereof.

# c. <u>Dilution Water</u>

- i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness and alkalinity to the closest downstream perennial water where the receiving stream is classified as intermittent or where the receiving stream has no flow due to zero flow conditions.
- ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

Permit number: AR0043397 Page 13 of Part III

A. a synthetic dilution water control which fulfills the test acceptance requirements of Item 2.a. was run concurrently with the receiving water control;

- B. the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);
- C. the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 3.a. below; and
- D. the synthetic dilution water shall have a pH, hardness and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

# d. <u>Samples and Composites</u>

- i. The permittee shall collect a minimum of three flow-weighted 24-hour composite samples from the outfall(s) listed at item 1.a. above. A 24-hour composite sample consists of a minimum of 4 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow or a sample continuously collected proportional to flow over a 24-hour operating day.
- ii. The permittee shall collect second and third 24-hour composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the 24-hour composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.
- iii. The permittee must collect the 24-hour composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first 24-hour composite sample. Samples shall be chilled to 4 degrees Centigrade during collection, shipping and/or storage.
- iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee

Permit number: AR0043397 Page 14 of Part III

must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 3. of this section.

- v. <u>MULTIPLE OUTFALLS</u>: If the provisions of this section are applicable to multiple outfalls, the permittee shall combine the 24-hour composite effluent samples in proportion to the average flow from the outfalls listed in item 1.a. above for the day the sample was collected. The permittee shall perform the toxicity test on the flow-weighted composite of the outfall samples.
- vi. At the time of sample collection the permittee shall measure the TRC of the effluent. The measured concentration of TRC for each sample shall be included in the lab report submitted by the permittee. The permittee shall not allow the sample to be dechlorinated prior to delivery to the laboratory nor at the laboratory.

### 3. REPORTING

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA/600/4-91/002, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C. of this permit. The permittee shall submit full reports only upon the specific request of the Department.
- b. The permittee shall report the Whole Effluent Lethality values for the 30-Day Average Minimum and the 7-Day Minimum under Parameter No. 22414 on the DMR for that reporting period.

If more than one valid test for a species was performed during the reporting period, the test NOECs will be averaged arithmetically and reported as the DAILY AVERAGE MINIMUM NOEC for that reporting period.

If more than one species is tested during the reporting period, the permittee shall report the <u>lowest</u> 30-Day Average Minimum NOEC and the <u>lowest</u> 7-Day Minimum NOEC for Whole Effluent Lethality.

Permit number: AR0043397

Page 15 of Part III

A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit. Only <u>ONE</u> set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the <u>LOWEST</u> Survival results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review.

c. The permittee shall submit the results of the valid toxicity test on the DMR for that reporting period. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR.

# i. <u>Pimephales promelas</u> (Fathead Minnow)

- A. If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP6C.
- B. Report the NOEC value for survival, Parameter No. TOP6C.
- C. Report the NOEC value for growth, Parameter No. TPP6C.
- D. If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP6C.
- E. Report the highest (Critical dilution or control) Coefficient of Variation, Parameter No. TQP6C.

# ii. <u>Ceriodaphnia dubia</u>

- A. If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP3B.
- B. Report the NOEC value for survival, Parameter No. TOP3B.
- C. Report the NOEC value for reproduction, Parameter No. TPP3B.
- D. If the No Observed Effect Concentration (NOEC) for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3B.

Permit number: AR0043397

Page 16 of Part III

E. Report the highest (Critical dilution or control) Coefficient of Variation, Parameter No. TQP3B.

# 4. **Monitoring Frequency Reduction**

- a. The permittee may apply for a testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for one or both test species, with no lethal or sub-lethal effects demonstrated at or below the critical dilution without a major modification. If granted, the monitoring frequency for that test species may be reduced to not less than once per year for the less sensitive species (usually the fathead minnow) and not less than twice per year for the more sensitive test species (usually the Ceriodaphnia dubia).
- b. CERTIFICATION The permittee must certify in writing that no test failures have occurred and that all tests meet all test acceptability criteria in item 2.a. above. In addition the permittee must provide a list with each test performed including test initiation date, species, NOECs for lethal and sub-lethal effects and the maximum coefficient of variation for the controls. Upon review and acceptance of this information the Department will issue a letter of confirmation of the monitoring frequency reduction. A copy of the letter will be forwarded to the Permit Compliance System section to update the permit reporting requirements.
- c. This monitoring frequency reduction applies only until the expiration date of this permit, at which time the monitoring frequency for both test species reverts to once per quarter until the permit is re-issued.
- 6. If TRC test results are less than Detection Level Achieved (DL), a value of zero (0) may be used for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

Total residual chlorine (TRC) in the effluent composite sample shall be measured and reported both at the time of sample termination and at the time of toxicity test initiation. The permittee shall ensure that the effluent composite used in toxicity testing is representative of normal facility residual chlorine discharge concentration.

# 7. Other Specified Monitoring Requirements

The permittee may use alternative appropriate monitoring methods and analytical instruments other than as specified in Part I Section A of the permit without a major permit modification under the following conditions:

Permit number: AR0043397 Page 17 of Part III

• The monitoring and analytical instruments are consistent with accepted scientific practices;

- The requests shall be submitted in writing to the NPDES Section of the Water Division of the ADEQ for use of the alternate method or instrument.
- The method and/or instrument is in compliance with 40 CFR 136; and
- All associated devices are installed, calibrated and maintained to insure the accuracy of the measurements and are consistent with accepted capability of that type of device. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Control/Quality Assurance program.

Upon written approval of the alternative monitoring method and/or analytical instruments, these methods or instruments must be consistently utilized throughout the monitoring period. ADEQ must be notified in writing and the permittee must receive written approval from ADEQ, if the permittee decides to return to the original permit monitoring requirements.

In the event that an approved, continuous, on-line analyzer is temporarily out of service for maintenance or repair it is permitted to take a grab sample and use an approved method for monitoring of that parameter until the analyzer is back in service.

- 12. The chlorine residual analyzer shall be calibrated or verified according to the instrument manufacturer's recommendations to verify that measurements are accurate and reliable to within + 10% of a known standard. This calibration/verification frequency shall be weekly for the first month and change to monthly thereafter. The frequency of calibration/verification will go back to weekly in the event that any monthly calibration/verification shows the instrument is no longer accurate to within + 10%. If four consecutive weekly calibration /verifications prove the instrument to be reading within + 10%, then the calibration/verification frequency shall again return to a monthly frequency.
- 13. Electronic flow meters such as an Ultra-sonic meter, as opposed to mechanical flow meters, shall be installed and initially calibrated to manufacturer's specifications. Thereafter, the flow meter shall be checked weekly to verify that the meter is accurate to within + 10%. As long as the meter continues to read accurately, no recalibration is needed.
- 14. The requirements for duplicates and spikes that reasonably apply to the analysis of certain parameters when collected as grab samples shall be followed. For those parameters collected/analyzed continuously, and for which duplicates and spikes are not reasonable, duplicates and spikes will not be required.

Permit number: AR0043397 Page 18 of Part III

15. Periodically, treated effluent will be pumped to the Pinnacle Golf Course for irrigation purposes. The volume of discharge through Outfall 002 is to be reported to NPDES Enforcement on the monthly Discharge Monitoring Reports (DMRs). The volume discharged to the receiving stream through Outfall 001 will be reported on the DMR as the reduced flow.

## 14. Additional Requirements for Outfall 001:

As required in Part II. Section C.5 - Monitoring results must be reported on a Discharge Monitoring Reports (DMRs). For Outfall 001, the facility must submit DMRs for both tiers (i. e. Outfall 001-design flow of 6.7 mgd and Outfall 001-design flow of 14 mgd.) After completion of the wastewater treatment facility with a design flow of 14 mgd, the permittee shall submit a letter requesting that Outfall 001 with the design flow of 6.7 mgd be terminated. The permittee must continue submitting two DMRs for Outfall 001 until the modification request is granted.

Additionally, in accordance with Regulation No. 6, Section 6.202, the permittee shall submit Plans and Specifications for the proposed 14-mgd wastewater treatment facility to the Department for review and approval prior to any construction/modification of the existing wastewater treatment facility.

Permit number: AR0043397 Page 1 of Part IV

# PART IV DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

- 1. "Act" means the Clean Water Act, Public Law 95-217 (33.U.S.C. 1251 et seq.) as amended.
- 2. "Administrator" means the Administrator of the U.S. Environmental Protection Agency.
- 3. "Applicable effluent standards and limitations" means all State and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards of performance, toxic effluent standards and prohibitions, and pretreatment standards.
- 4. "Applicable water quality standards" means all water quality standards to which a discharge is subject under the federal Clean Water Act and which has been (a) approved or permitted to remain in effect by the Administrator following submission to the Administrator pursuant to Section 303 (a) of the Act, or (b) promulgated by the Director pursuant to Section 303(b) or 303(c) of the Act, and standards promulgated under regulation No. 2, as amended, (regulation establishing water quality standards for surface waters of the State of Arkansas.)
- 5. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- 6. **"Daily Discharge"** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.

Mass Calculations: For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of pollutant discharged over the sampling day.

Concentration Calculations: For pollutants with limitations expressed in other units of measurement, determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during that sampling day by using the following formula: where C= daily concentration, F=daily flow and n=number of daily samples; daily average discharge

$$\frac{C_{1}F_{1}+C_{2}F_{2}+^{\cdots}C_{n}F_{n}}{F_{1}+F_{2}+^{\cdots}F_{n}}$$

- 7. **Monthly average**: means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. For Fecal Coliform Bacteria (FCB) report the monthly average see 30-day average below.
- 8. "Daily Maximum" discharge limitation means the highest allowable "daily discharge" during the calendar month. The 7-day average for fecal coliform bacteria is the geometric mean of the values of all effluent samples collected during the calendar week in colonies/100 ml.

Permit number: AR0043397 Page 2 of Part IV

9. "Department" means the Arkansas Department of Environmental Quality (ADEQ).

- 10. "Director" means the Administrator of the U.S. Environmental Protection Agency and/or the Director of the Arkansas Department of Environmental Quality.
- 11. "Grab sample" means an individual sample collected in less than 15 minutes in conjunction with an instantaneous flow measurement.
- 12. "Industrial User" means a nondomestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly-owned treatment works.
- 13. "National Pollutant Discharge Elimination System" means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318 and 405 of the Clean Water Act.
- 14. "POTW" means a Publicly Owned Treatment Works.
- 15. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in products.
- 16. "APCEC" means the Arkansas Pollution Control and Ecology Commission.
- 17. "Sewage sludge" means the solids, residues, and precipitate separated from or created in sewage by the unit processes a publicly-owned treatment works. Sewage as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff that are discharged to or otherwise enter a publicly-owned treatment works.
- 18. "7-day average" discharge limitation, other than for fecal coliform bacteria, is the highest allowable arithmetic means of the values for all effluent samples collected during the calendar week. The 7-day average for fecal coliform bacteria is the geometric mean of the values of all effluent samples collected during the calendar week in colonies/100 ml. The DMR should report the highest 7-day average obtained during the calendar month. For reporting purposes, the 7-day average values should be reported as occurring in the month in which the Saturday of the calendar week falls in.
- 19. "30-day average", other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. The 30-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

For Fecal Coliform Bacteria (FCB) report the monthly average as a 30-day geometric mean in colonies per 100 ml.

- 20. "24-hour composite sample" consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.
- 21. "12-hour composite sample" consists of 12 effluent portions, collected no closer together than one hour and composited according to flow. The daily sampling intervals shall include the highest flow periods.

Permit number: AR0043397 Page 3 of Part IV

22. "6-hour composite sample" consists of six effluent portions collected no closer together than one hour(with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.

- 23. "3-hour composite sample" consists of three effluent portions collected no closer together than one hour(with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.
- 24. "Treatment works" means any devices and systems used in storage, treatment, recycling, and reclamation of municipal sewage and industrial wastes, of a liquid nature to implement section 201 of the Act, or necessary to recycle reuse water at the most economic cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and alterations thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities, and any works, including site acquisition of the land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment.
- 25. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. Any upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack or preventive maintenance, or careless of improper operations.
- 26. "For Fecal Coliform Bacteria", a sample consists of one effluent grab portion collected during a 24-hour period at peak loads. For Fecal Coliform Bacteria (FCB) report the monthly average as a 30-day geometric mean in colonies per 100 ml.
- 27. "Dissolved oxygen limit", shall be defined as follows:
- a. When limited in the permit as a monthly minimum, shall mean the lowest acceptable monthly average value, determined by averaging all samples taken during the calendar month;
- b. When limited in the permit as an instantaneous minimum value, shall mean that no value measured during the reporting period may fall below the stated value.
- 28. The term "MGD" shall mean million gallons per day.
- 29. **The term "mg/l"** "shall mean milligrams per liter or parts per million (ppm).
- 30. **The term "µg/l"** shall mean micrograms per liter or parts per billion (ppb).
- 31. **The term "cfs"** shall mean cubic feet per second.
- 32. **The term "ppm"** shall mean part per million.
- 33. **The term "s.u."** shall mean standard units.
- 34. Monitoring and Reporting:

When a permit becomes effective, monitoring requirements are of the immediate period of the permit effective date. Where the monitoring requirement for an effluent characteristic is Monthly or more frequently, the Discharge Monitoring Report shall be submitted by the 25<sup>th</sup> of the month following the sampling. Where the monitoring requirement for an effluent characteristic is Quarterly, Semi-Annual, Annual, or Yearly, the Discharge Monitoring report shall be submitted by the 25<sup>th</sup> of the month following the monitoring period end date.

Permit number: AR0043397

Page 4 of Part IV

#### **MONTHLY:**

is defined as a calendar month or any portion of a calendar month for monitoring requirement frequency of once/month or more frequently.

### **QUARTERLY:**

- (1) is defined as a fixed calendar quarter or any part of the fixed calendar quarter for a non-seasonal effluent characteristic with a measurement frequency of once/quarter. Fixed calendar quarters are: January through March, April through June, July through September, and October through December; or
- (2) is defined as a fixed three month period (or any part of the fixed three month period) of or dependent upon the seasons specified in the permit for a seasonal effluent characteristic with a monitoring requirement frequency of once/quarter that does not does not coincide with the fixed calendar quarter. Seasonal calendar quarters are: May through July, August through October, November through January, and February through April.

### **SEMI-ANNUAL:**

is defined as the fixed time periods January through June, and July through December (or any portion thereof) for an effluent characteristic with a measurement frequency of once/6 months or twice/year.

### **ANNUAL or YEARLY:**

is defined as a fixed calendar year or any portion of the fixed calendar year for an effluent characteristic or parameter with a measurement frequency of once/year. A calendar year is January through December, or any portion thereof.

#### **Final Fact Sheet**

for modification of an NPDES Permit Number AR0043397 to discharge to Waters of the State

#### 1. **PERMITTING AUTHORITY.**

The issuing office is:

Arkansas Department of Environmental Quality 8001 National Drive Post Office Box 8913 Little Rock, Arkansas 72219-8913

### 2. APPLICANT.

The applicant is:

City of Rogers 4300 Rainbow Rd. Rogers, AR 72758

## 3. **PREPARED BY.**

The permit was prepared by:

Marysia Jastrzebski, P.E. NPDES Branch, Water Division

### 4. **DATE PREPARED.**

The permit was prepared on August 15, 2006.

# 5. **PREVIOUS PERMIT ACTIVITY.**

Effective Date: March 1, 2006. Expiration Date: February 28, 2011.

On January 31, 2006, the Arkansas Department of Environmental Quality ("ADEQ") issued NPDES permit No. AR0043397 to the City of Rogers ("Permittee") with an effective date of March 1, 2006. The permittee filed a timely request for Commission Review and Adjudicatory Hearing ("Appeal") regarding ADEQ's decision to issue the permit. Ultimately, the parties have agreed to resolve the issues in dispute in Permit Appeal Resolution (PAR). Accordingly, docket in the Appeal was closed and the proceedings were remanded to the Department to proceed in accordance with the terms of the Stipulation and Settlement Agreement entered in LIS No. 06-039. Therefore, the permit is modified according to the Agreement and based on 40CFR Part 122.62 to change 7-day average limit of total phosphorous to monitoring and reporting for the period of 3 years.

Pretreatment Program modifications were submitted, reviewed, will be deemed approvable and incorporated by reference on the effective date of this modified permit if there are no substantive comments received during the public notice period.

This is a modified draft permit and <u>only</u> the modified portion of the permit can be reopened for comment pursuant to 40 CFR 122.62.

### 6. RECEIVING STREAM SEGMENT AND DISCHARGE LOCATION.

The outfalls are located at the following coordinates:

Outfall 001: Latitude: 36° 18' 07" Longitude: 94° 12' 58" Outfall 002: Latitude: 36° 17' 57" Longitude: 94° 12' 04"

The receiving waters named:

Outfall 001: Osage Creek, thence to the Illinois River in Segment 3J of the Arkansas River Basin. The receiving stream is a Water of the State classified for primary contact recreation, raw water source for public, industrial, and agricultural water supplies, propagation of desirable species of fish and other aquatic life, and other compatible uses.

Outfall 002: Pinnacle Golf Course - "C" Lake. Wastewater pumped to "C" Lake is used to irrigate Pinnacle Golf Course.

# a. <u>303d List and Endangered Species Consi</u>derations

### i. 303d List

### **OUTFALLS 001:**

The receiving stream, Osage Creek is a tributary of the Illinois River, which is listed on 1998 Oklahoma's 303d list due to nutrients levels.

The receiving stream, Osage Creek was added to the Arkansas 2002 303(d) list by EPA.

The draft permit includes a Total Phosphorus limit based on Section 6.401(D)(1) of Regulation No. 6 and the December 18, 2003, Statement of Joint Principles and Actions between Arkansas and Oklahoma, which calls for Rogers to reduce the concentration of phosphorus in its effluent to 1 mg/l, based on a 30-day average, by 2004

### Outfall 002:

The receiving stream is not listed on the 303d list. Therefore no permit action is needed.

## ii. Endangered Species:

Comments were received from the U.S. Fish and Wildlife Service (USF&WS). According to the letter dated December 14, 2004, two federally- endangered species, the Cave Crayfish (Cambarus aculabrum) and Gray Bat (Myotis grisescens), and the federally threatened Ozark Cavefish (Amblyopsis rosae) have been documented in the vicinity of the outfalls from this facility. Several known Ozark Cavefish and Cave Crayfish sites are located within the Osage Creek recharge zone, downstream from the facility. Two of these sites contain the largest known populations of this threatened species. Other sensitive cave species, such as the Ozark Cave Amphipod, also inhibit waters connected with the receiving stream of the facility.

The U. S. Fish and Wildlife Service requested that the Agency be notified immediately if any accidental spills occur in the area. Additionally, the Service may request initiation of consultation if the facility exceed permit limits, or new information becomes available regarding the sensitivity of the cave fauna to effluent constituents from the facility.

Additionally, comments were received from the Department of Arkansas Heritage. According to the letter dated November 14, 2005, *Etheostoma micropeca*, Least Darter, has been known to occur within one mile downstream of the outfall.

### 7. OUTFALL AND TREATMENT PROCESS DESCRIPTION.

The following is a description of the facility described in the application:

a. Design Flow:

Outfall 001: 6.7 MGD(existing wastewater treatment facility);

Outfall 001: 14 MGD (proposed wastewater treatment facility)

Outfall 002: varies - discharge from Outfall 001 to Pinnacle Golf Course "C"

Lake for golf course irrigation

b. Type of treatment: Outfalls 001 and 002: flow equalization, screening, grit & scum removal, five stage Bardenpho activated sludge/biological nutrient removal, final clarification, chlorination/dechlorination, and post aeration. Additionally, for Outfall 002-spray irrigation.

# c. Discharge Description: treated municipal wastewater

A quantitative and qualitative description of the discharge described in the NPDES Permit Application Forms received are available for review.

## 8. INDUSTRIAL WASTEWATER CONTRIBUTIONS.

## a. INDUSTRIAL USERS

This facility receives Significant Industrial process wastewater.

<b>Industrial Contributor</b>	Principal Product	Flow
Bekaert Corporation	Steel cord	0.022 MGD
Fibertech Group, Inc.	Wipes and fabrics for hygiene and medical use	0.105 MGD
Model Laundry & Dry Cleaners	Laundered or dry cleaned materials	0.010 MGD
Ozark Mountain Poultry	Poultry products	0.065 MGD
Pel – Freez Rabit Meat, Inc.	Rabbit Meat Processing	0.035 MGD
Glad Manufacturing, Inc.	Polyethylene plastic bags and wrap	0.045 MGD
Kennametal	Machine tools and measuring devices	0.002 MGD
MAFCO, Inc.	Water tanks, valves, hydrants, and blower housing	0.002 MGD
Preformed Line Products, Inc.	Pole line hardware & telephone cable splice cases	0.005 MGD
Superior Industries, Inc.	Aluminum wheels	0.070 MGD
Tyson Chick-N-Quick	Poultry products	0.277 MGD
Tyson of Rogers	Poultry products	0.555 MGD

Based on the applicant's effluent compliance history and the type of industrial contributions, standard Pretreatment Program implementation conditions are deemed appropriate at this time.

Pretreatment Program modifications were submitted, reviewed, will be deemed approvable and incorporated by reference on the effective date of this modified permit if there are no substantive comments received during the public notice period.

For viewing the City's Pretreatment Program modifications, contact:

Mo Shafii Chief of the NPDES Permits Divison Arkansas Dept. of Environmental Quality 8001 National Drive Little Rock, AR 72219

Or:

Luanne Diffin Environmental Services Coordinator Rogers Water Utilities 4300 Rainbow Road Rogers, AR 72758-1440

### 9. SEWAGE SLUDGE PRACTICES.

Sludge is aerobically stabilized and land applied. Sludge produced at the treatment facility is disposed at the following location:

Field Number	Sections	Township	Range
RPCF	19 & 30	19 North	30 West

## 10. **PERMIT CONDITIONS.**

The Arkansas Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application. Permit requirements are based on NPDES regulations (40 CFR Parts 122, 124, and Subchapter N), the National Pretreatment Regulation in 40 CFR 403 and regulations promulgated pursuant to the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended, Ark. Code Ann. 8-4-101 et. seq.).

### i. Conventional and/or Toxic Pollutants

a. Outfall 001 (design flow of 6.7 mgd) - treated municipal wastewater

# **Interim Effluent Limitations**

Effluent Characteristics	<u>Discharge Limitations</u>			Monitoring Requirements		
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type	
	Monthly Avg.	Monthly Avg.	7-Day Avg.			
Flow (MGD)	N/A	Report	Report	Daily	Totalizing meter	
Carbonaceous Biochemical Oxygen Demand (CBOD5)						
(May-Oct)	558.8	10	15	Once/week	24-hr composite	
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite	
Total Suspended Solids (TSS)						
(May-Oct)	838.2	15	23	Once/week	24-hr composite	
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite	
Ammonia Nitrogen (NH3-N)						
(April)	134.1	2.4	5.7	Once/week	24-hr composite	
(May-Oct)	83.8	1.5	2.3	Once/week	24-hr composite	
(Nov-March)	223.5	4 6		Once/week	24-hr composite	
	Γ			1		
Dissolved Oxygen						

Dissolved Oxygen					
(May-Oct)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-Apr)	N/A	10	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	es/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC)	N/A	0.1 mg/l (	(Inst. Max.)	Three/week	Continuous
Phosphorus, Total	55.9	1	Report	Twice/month	24-hr composite
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethelite (7 der NOEC)	Daily Averag	e Min. 7-da	y Min.		
<u>Lethality</u> (7-day NOEC)	not < <b>68</b> %	not	< 68%	Once/quarter	24-hr composite

# **Final Effluent Limitations**

Effluent Characteristics	Disch	arge Limitati	Monitoring Requirements		
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow (MGD)	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)					
(May-Oct)	558.8	10	15	Once/week	24-hr composite
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite
Total Suspended Solids (TSS)					
(May-Oct)	838.2	15	23	Once/week	24-hr composite
(Nov-Apr)	1117.6	20	30	Once/week	24-hr composite
Ammonia Nitrogen (NH3-N)					
(April)	134.1	2.4	5.7	Once/week	24-hr composite
(May-Oct)	83.8	1.5 2.3		Once/week	24-hr composite
(Nov-March)	223.5	4	6	Once/week	24-hr composite

Dissolved Oxygen					
(May-Oct)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-Apr)	N/A	10	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonies	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC)	N/A	0.1 mg/l (l	nst. Max.)	Three/week	Continuous
Phosphorus, Total	55.9	1	2	Twice/month	24-hr composite
pН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethality (7-day NOEC)	Daily Average		< <b>68</b> %	Once/quarter	24-hr composite

# b. Outfall 001 (design flow of 14 mgd), treated municipal wastewater

# **Interim Effluent Limitations**

Effluent Characteristics	Discha	rge Limitati	ons	Monitori	ng Requirements
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)					
(May-Oct)	584	5	7.5	Three/week	24-hr composite
(Nov-Apr)	1168	10	15	Three/week	24-hr composite
Total Suspended Solids (TSS)					
(May-Oct)	1,168	10	15	Three/week	24-hr composite
(Nov-Apr)	1,751	15	23	Three/week	24-hr composite
Ammonia Nitrogen (NH3-N)					
(April)	234	2.0	4.5	Three/week	24-hr composite
(May-Oct)	175	1.5	2.3	Three/week	24-hr composite
(Nov-March)	350	3.0	4.5	Three/week	24-hr composite
Dissolved Oxygen					
(May-October)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-April)	N/A	10 Min	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC)	N/A	0.1 mg/l (l	Inst. Max.)	Three/week	Three/week
Phosphorus, Total	117	1	Report	Three/week	24-hr composite
pН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity	Daily Average	Min. 7-day	Min.		
Lethality (7-day NOEC)	not < <b>82</b> %	not <	<b>82</b> %	Once/quarter	24-hr composite

# **Final Effluent Limitations**

Effluent Characteristics	<u>Discha</u>	rge Limitati	<u>ons</u>	Monitori	ng Requirements
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)					
(May-Oct)	584	5	7.5	Three/week	24-hr composite
(Nov-Apr)	1168	10	15	Three/week	24-hr composite
Total Suspended Solids (TSS)					
(May-Oct)	1,168	10	15	Three/week	24-hr composite
(Nov-Apr)	1,751	15	23	Three/week	24-hr composite
Ammonia Nitrogen (NH3-N)					
(April)	234	2.0	4.5	Three/week	24-hr composite
(May-Oct)	175	1.5	2.3	Three/week	24-hr composite
(Nov-March)	350	3.0	4.5	Three/week	24-hr composite
Dissolved Oxygen					
(May-October)	N/A	7.9 Min	N/A	Three/week	Continuous
(Nov-April)	N/A	10 Min	N/A	Three/week	Continuous
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200	400	Three/week	Grab
Total Residual Chlorine (TRC)	N/A	0.1 mg/l (l	Inst. Max.)	Three/week	Three/week
Phosphorus, Total	117	1	2	Three/week	24-hr composite
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous
Whole Effluent Toxicity Lethality (7-day NOEC)	Daily Average I not < 82 %		<u>Min.</u> <b>82</b> %	Once/quarter	24-hr composite

## c. Outfall 002- treated municipal wastewater

### **Final Effluent Limitations**

Effluent Characteristics	<u>Discha</u>	rge Limitatio	Monitoring Requirements		
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow (MGD)	N/A	Report	Report	Daily	Totalizing meter
Carbonaceous Biochemical Oxygen Demand (CBOD5)	N/A	10	15	Once/week	24-hr composite
Total Suspended Solids (TSS)	N/A	15	23	Once/week	24-hr composite
Fecal Coliform Bacteria (FCB)		(colonie	s/100ml)		
	N/A	200 400		Once/week	Grab
рН	N/A	Minimum 6.0 s.u.	Maximum 9.0 s.u.	Three/week	Continuous

ii. **Solids, Foam, and Free Oil:** There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

#### 11. BASIS FOR PERMIT CONDITIONS.

The following is an explanation of the derivation of the conditions of the Draft permit and the reasons for them or, in the case of notices of intent to deny or terminate, reasons suggesting the tentative decisions as required under 40 CFR 124.7 (48 FR 1413, April 1, 1983).

### **Discussion of the modified conditions of the permit**

This draft permit action only addresses the following issue:

The effective date of the 7-day Average total phosphorus limitation of 2 mg/l for Outfall 001 has been changed.

Consistent with the Permit Appeal Resolution, Docket No. 06-002-P, this draft permit contains the interim and final effluent limitations for Total Phosphorus for Outfall 001(6.7 mgd) and Outfall 001(14 mgd). The 7 day average phosphorus limit under the current design flow of 6.7 mgd and under the future design flow of 14 mgd will be "Report" from the effective date of the permit until three years from the effective date of the permit (the interim limit) and the 7 day

average phosphorus limit under the current design flow of 6.7 mgd and under the future design flow of 14 mgd will be "2 mg/l" from the three years after the effective date of the permit until the expiration of the permit.

Pretreatment Program modifications were submitted, reviewed, will be deemed approvable and incorporated by reference on the effective date of this modified permit if there are no substantive comments received during the public notice period.

## Permit Modifications under 40 CFR 122.62

40 CFR § 122.62 - Modification or revocation and reissuance of permits - states: "When a permit is modified, only the conditions subject to modification are reopened".

The Fact Sheet does not reopen for any other limitations, terms, requirements, or conditions contained in the previously issued NPDES permit.

# e. Final Limitations

The following effluent limitations or "report" requirements were placed in the permit based on the more stringent of the technology-based, water quality-based or previous NPDES permit limitations:

## Outfall 001(design flow of 6.7 mgd):

Parameter		Water Quality- Based		Technology- Based/BPJ		Previous NPDES Permit		Final Permit	
	Monthly	7-day	Monthly	7-day	Monthly	7-day	Monthly	7-day	
·	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
CBOD5									
(May-Oct)	10	15	25	40	10	15	10	15	
(Nov-Apr)	20	30	25	40	20	30	20	30	
TSS									
(May-Oct)	15	23	30	45	15	23	15	23	
(Nov-Apr)	20	30	30	45	20	30	20	30	
NH3-N									
(April)	2.4	5.7	N/A	N/A	4	6	2.4	5.7	
(May-Oct)	1.5	2.3	N/A	N/A	1.5	2.3	1.5	2.3	
(Nov-March)	4	6	N/A	N/A	4	6	4	6	

DO (Min)								
(May-Oct)	7.9	N/A	N/A	N/A	7.9	N/A	7.9	N/A
(Nov-Apr)	10	N/A	N/A	N/A	10	N/A	10	N/A
FCB (col/100ml)								
(April-September)	200	400	N/A	N/A	200	400	200	400
(Oct-March)	1000	2000	N/A	N/A	200	400	200	400
TRC (Inst. Max)	N	/A	0.1 mg/l		0.1 mg/l		0.1	mg/l
Total Phosphorus	1	2	N/A	N/A	N/A	N/A	1	2
рН	6.0-9.	.0 s.u.	6.0-9	.0 s.u.	6-9 s.u.		6.0-9.0 s.u.	

# Outfall 001(design flow of 14 mgd):

Parameter	Water (	Quality-	Technology-		Previous NPDES		Final Permit		
	Bas	sed	Based	Based/BPJ		Permit			
	Monthly	7-day	Monthly	7-day	Monthly	7-day	Monthly	7-day	
	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
CBOD5									
(May-Oct)	10	15	25	40	N/A	N/A	10	15	
(Nov-Apr)	15	23	25	40	N/A	N/A	15	23	
TSS									
(May-Oct)	15	23	30	45	N/A	N/A	15	23	
(Nov-Apr)	20	30	30	45	N/A	N/A	20	30	
NH3-N									
(April)	2.0	4.5	N/A	N/A	N/A	N/A	2.0	4.5	
(May-Oct)	1.5	2.3	N/A	N/A	N/A	N/A	1.5	2.3	
(Nov-March)	3.0	4.5	N/A	N/A	N/A	N/A	3.0	4.5	
DO (Min)									
(May-Oct)	7.9	N/A	N/A	N/A	N/A	N/A	7.9	N/A	
(Nov-April)	10	N/A	N/A	N/A	N/A	N/A	10	N/A	
FCB (col/100ml)	200	400	N/A	N/A	N/A	N/A	200	400	
(April-September)	200	400	N/A	N/A	N/A	N/A	200	400	

(Oct-March)	1000	2000	N/A	N/A	N/A	N/A	200	400
TRC (Inst. Max)	N/A		0.1 mg/l		N/A		0.1 mg/l	
Total Phosphorus	1	2	N/A	N/A	N/A	N/A	1	2
pН	6.0-9.0 s.u.		6.0-9.0 s.u.		N/A		6.0-9.0 s.u.	

### Outfall 002:

Parameter	Water Quality-		Technology-		Previous NPDES		Final Permit	
	Based		Based/BPJ		Permit			
	Monthly	7-day	Monthly	7-day	Monthly	7-day	Monthly	7-day
	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CBOD5	10	15	25	40	10	15	10	15
TSS	15	23	30	45	15	23	15	23
FCB (col/100ml)	200	400	N/A	N/A	1000	2000	200	400
pН	6.0-9.0 s.u.		6.0-9.0 s.u.		6-9 s.u.		6.0-9.0 s.u.	

## f. Changes from the previously issued permit

- 1. The interim monitoring and reporting is required for the 7-day average Total Phosphorus for Outfall 001(6.7 mgd) and Outfall 001 (14 mgd) from the effective date until three years from the effective date of the permit.
- 2. The final limitation of 2 mg/l for the 7-day average Total Phosphorus for Outfall 001(6.7 mgd) and Outfall 001(14 mgd) is effective three years from the effective date of the permit.
- 3. Progress reports are required one year and two years after the effective date of the permit.
- 4. Pretreatment Program modifications were submitted, reviewed, will be deemed approvable and incorporated by reference on the effective date of this modified permit if there are no substantive comments received during the public notice period.

### 12. SCHEDULE OF COMPLIANCE.

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

### Outfall 001:

Compliance with the Interim Effluent Limitations for the 7 day average Total Phosphorus: Effective date of the permit

Submit progress reports: One year from the effective date of the permit

Two years from the effective date of the permit

Compliance with the Final Effluent Limitations for the 7 day average Total Phosphorus: Three years from the effective date of the modified permit.

### Outfall 002:

Compliance is required on the effective date of the permit.

# 13. MONITORING AND REPORTING

The applicant is at all times required to monitor the discharge on a regular basis; and report the results monthly. The monitoring results will be available to the public.

### 14. **SOURCES.**

The following sources were used to prepare the final permit:

- a. Permit Appeal Resolution (PER), Docket No. 06-002-P.
- b. Regulation No. 6.
- c. 40 CFR Parts 122 and 403.
- d. NPDES permit file AR00 43397.
- e. Letter dated August 14, 2006, from John L. Craig, Director, Water Quality Division, Oklahoma Department of Environmental Quality to Marysia Jastrzebski, ADEQ.

# RESPONSE TO COMMENTS FINAL PERMITTING DECISION

Response to comments received on the subject draft permit in accordance with regulations promulgated at 40 CFR Part 124.17 are as follows:

Permit No.: AR0043397

Applicant: City of Rogers

Prepared by: Marysia Jastrzebski

Public Notice Date: The draft permit was publicly noticed on July 14, 2006.

Date Prepared: October 3, 2006

The following comments have been received on the draft permit:

Letter from John L. Craig, Director, Water Quality Division, Oklahoma Department of Environmental Quality (ODEQ) to Marysia Jastrzebski, ADEQ dated August 14, 2006.

### ISSUE #1

The commenter stated that neither ODEQ nor any other Oklahoma State Environmental Agency was notified of the Appeal by the City of Rogers, proceedings before the ADEQ board, or the subsequent proposed Settlement Agreement.

### RESPONSE #1

The Department (ADEQ) knows of no law, regulation, agreement or policy which would require notification of the ODEQ of the appeal.

# ISSUE #2

The commenter stated that no legitimate justification for removing the 7-day Average limit for Total Phosphorus was provided.

### RESPONSE #2

The Department disagrees. See Section 11, Page 10 of the Fact Sheet for justification. Reg. 2.104 of APCEC Regulation No. 2. allows up to 3 years for compliance with new or revised water quality based effluent limits. Additionally, Reg. 6.401 of APCEC Regulation No. 6 requires that the City of Rogers meets the Monthly Average limit of 1 mg/l for Total Phosphorus as soon as possible but no later than January 1, 2012.

### ISSUE #3

The commenter stated that granting of a deferred compliance date and a compliance schedule is not justified or appropriate. And that the only acceptable rationale for granting a deferred limit and compliance schedule is the need to construct facilities that are necessary to meet the deferred limit. There is no explanation as to what facilities must be constructed. Since the City of Rogers is capable of meeting the interim Monthly Average limit for Phosphorus, removal of the interim 7-day limit is inappropriate and does not conform the requirements of 40 CFR Part 122.62.

### RESPONSE #3

The Department disagrees. Please be advised that the 7-day Average limitation for Total Phosphorus was not removed from the permit. Reg. 2.104 of APCEC Regulation No. 2 allows up to 3 years for compliance regardless of whether any construction is required to meet new water quality based limits. It is also important to note the fact that facility is able to meet the Monthly Average limit of 1 mg/l does not guarantee that the same facility is consistently capable of meeting the 7-day Average limit of 2 mg/l. Additionally, this permit has been modified in accordance with the terms of the Stipulation and Settlement Agreement entered in LIS No. 06-039 which including a three-year compliance schedule.

### ISSUE #4

The commenter stated the granting of a three-year deferred compliance date is not justified. Compliance may be deferred only as long as the construction time period – up to a maximum three years. There is no demonstration that three years are needed. There is no demonstration that any time at all is needed to comply with the 7-day average limit.

### RESPONSE #4

See response No. 3 above.