

RESOLUTION NO. 60-1992

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ABILENE, TEXAS, APPROVING THE MUNICIPAL WATER POLLUTION PREVENTION ENVIRONMENTAL AUDIT REPORT.

WHEREAS, the Abilene City Council has received the Municipal Water Pollution Prevention (MWPP) Order for Information Docket No. VI-91-2609, and,

WHEREAS, the Abilene City Council agrees to submit the information outlined in the MWPP Environmental Audit Report as required by the Environmental Protection Agency (EPA), Region 6; and,

WHEREAS, the Abilene City Council agrees to implement the MWPP program as necessary for the next reissuance of the City of Abilene's National Pollutant Discharge Elimination System permit;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ABILENE, TEXAS, that:

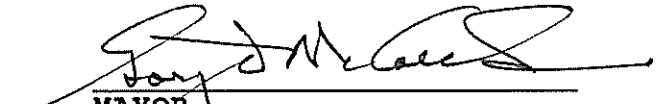
PART 1. The Abilene City Council informs EPA Region 6 that it has reviewed and approved the MWPP Environmental Audit Report, attached hereto as Exhibit "A" and incorporated for all purposes, for the Abilene Wastewater Treatment Plant, Permit No. TX0023973.

PART 2. This Resolution shall take effect immediately from and after its passage.

ADOPTED THIS 17 DAY OF December, 1992.

ATTEST:

  
CITY SECRETARY

  
MAYOR

APPROVED:

  
CITY ATTORNEY



Section 308(a) of the Act, 33 U.S.C. § 1318(a) provides that:

Whenever required to carry out the objective of this Act, including but not limited to ... determining whether any person is in violation of any ... limitation, prohibition ... or standard of performance ... the Administrator shall require the owner or operator of any point source to ... provide such other information as he may reasonably require ....

III

FINDINGS OF FACT

Part III.B.2. of the permit requires the Permittee to 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.

It is EPA's policy to promote pollution prevention wherever possible. To accomplish this goal in the area of domestic waste treatment, EPA is initiating the Municipal Water Pollution Prevention (MWPP) program. This MWPP program includes preventing wastewater permit violations; maximizing the useful lives of Publicly Owned Treatment Works (POTW) through effective operation and maintenance, financial management and reduced wastewater flows and loadings; and ensuring timely planning and financing for future needs and growth prior to the occurrence of wastewater permit violations.

ORDER

Based on the foregoing FINDINGS and pursuant to the authority vested in the Administrator under Section 308 (a)(4)(A) of the Act 33 U.S.C. § 1318(a)(4)(A), and Section 309(a)(3) of the Act, 33 U.S.C. § 1319(a)(3),

6h-6

00279

and duly delegated to the Regional Administrator, Region 6, and duly redelegated to the undersigned Director, Water Management Division, Region 6, it is ordered:

A. That the Permittee, by January 1, 1993, shall submit the information outlined in the attached environmental audit (Attachment 2) to EPA and a copy to the Texas Water Commission (TWC). This environmental audit shall be signed by a duly authorized representative of the POTW. The reporting period shall cover October 1, 1991, through September 30, 1992.

B. That the Permittee shall submit a resolution from the POTW's governing body to EPA and a copy to the TWC. This resolution shall accompany the environmental audit and shall include the information found in Attachment 3.

C. That the Permittee shall submit an updated environmental audit and accompanying resolution each subsequent year on January 1. The report shall cover the previous twelve month period from October 1 through September 30.

Section 309 of the Act, as amended by the Water Quality Act of 1987, provides civil and criminal penalties for failure to submit information required under Section 308 and criminal penalties for knowingly making a false statement under Section 308. This information should be addressed to the TWC and EPA at the following addresses:

U.S. Environmental Protection Agency  
Region 6  
Water Management Division  
Enforcement Branch (6W-E)  
1445 Ross Avenue  
Dallas, Texas 75202-2733

00280

6h-7

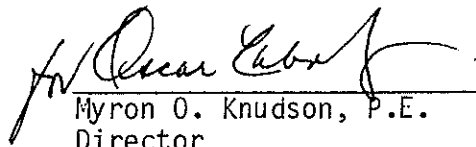
Texas Water Commission  
Attn: Ms. Jennifer Sidnell, Chief  
Wastewater Enforcement Section  
Water Quality Division  
P.O. Box 13087, Capitol Station  
Austin, Texas 78711-3087

This Order shall be in effect until the Permittee's NPDES permit is reissued to address these reporting requirements.

The effective date of this Order shall be the date it is received by the Permittee.

SEP 05 1991

DATED: This \_\_\_\_\_ day of \_\_\_\_\_, 1991.

  
\_\_\_\_\_  
Myron O. Knudson, P.E.  
Director  
Water Management Division (6W)

00281

6h-8

---

MUNICIPAL WATER POLLUTION PREVENTION  
MWPP  
**ENVIRONMENTAL AUDIT**  
REPORT

---

PREPARED BY

MUNICIPALITY: City of Abilene STATE: Texas

NPDES PERMIT #: TX0023973  
FOR WASTEWATER TREATMENT PLANT

CONTACT PERSON: Dwayne Hargesheimer  
MUNICIPAL OFFICIAL  
Director of Water Utilities  
TITLE

MAILING ADDRESS: P.O. Box 60  
Abilene, Tx 79604-0060

TELEPHONE #: (915) 676-6416

CHIEF OPERATOR: Brian Socia  
NAME

TELEPHONE #: (915) 548-2237

SIGNATURE: \_\_\_\_\_

AUTHORIZED  
REPRESENTATIVE

TITLE

DATE

---

EPA REGION 6

6h-9

REVISED: MARCH 31, 1992

00282

---

**PART 1: INFLUENT FLOW/LOADINGS**

---

A. List the average monthly volumetric flows and BOD<sub>5</sub> loadings received at your facility during your 12-month MWPP reporting period.

MWPP REPORTING PERIOD		COLUMN 1 *AVERAGE MONTHLY INFLUENT FLOW	COLUMN 2 AVERAGE MONTHLY INFLUENT BOD <sub>5</sub> LOADING (LBS/DAY)
<u>YEAR</u>	<u>MONTH</u>	<u>(MGD)</u>	<u>(LBS/DAY)</u>
<u>91</u>	<u>October</u>	<u>12.354</u>	<u>14,821</u>
<u>91</u>	<u>November</u>	<u>12.153</u>	<u>16,433</u>
<u>91</u>	<u>December</u>	<u>15.089</u>	<u>17,938</u>
<u>92</u>	<u>January</u>	<u>16.503</u>	<u>17,943</u>
<u>92</u>	<u>February</u>	<u>18.435</u>	<u>16,737</u>
<u>92</u>	<u>March</u>	<u>18.427</u>	<u>17,245</u>
<u>92</u>	<u>April</u>	<u>16.184</u>	<u>20,751</u>
<u>92</u>	<u>May</u>	<u>14.995</u>	<u>17,163</u>
<u>92</u>	<u>June</u>	<u>17.084</u>	<u>16,163</u>
<u>92</u>	<u>July</u>	<u>15.211</u>	<u>16,102</u>
<u>92</u>	<u>August</u>	<u>13.585</u>	<u>15,910</u>
<u>92</u>	<u>September</u>	<u>13.427</u>	<u>14,957</u>

\*Use same reporting period as DMR's

- B. List the average design flow and daily BODs loadings for your facility in the blanks below. If you are not aware of these design quantities, refer to your O&M manual.

	Average Flow (MGD)	Daily BODs Loading (Pounds Per Day)
Design Criteria:	<u>18.0</u>	<u>37,530</u>
90% of the Design Criteria:	<u>16.2</u>	<u>33,777</u>

- C. How many times in the previous year did the average monthly flow (Column 1) to the WWTP exceed 90% of the design flow? 0 (Circle the appropriate number)

0-4 = 0 points;    5 or more = 5 points

- D. How many times in the previous year did the average monthly flow (Column 1) to the WWTP exceed the design flow? 2 (Circle the appropriate number)

0 = 0 points;    1-2 = 5 points;  
3-4 = 10 points;    5 or more = 15 points

- E. How many times in the previous year did the average monthly loading in pounds per day of BODs exceed design loading. (Circle the appropriate number)

0 = 0 points    1-2 = 10 points    3-4 = 20 points  
4-6 = 30 points    over 6 = 40 points

- F. List each point value you circled for C, D and E in the blanks below and place the total in the box.

C points = 0  
D points = 5  
E points = 0

**TOTAL POINT VALUE FOR PART 1** 5

Enter this value on the point calculation table on the last page.

2  
6 h-11

00284



**PART 2: EFFLUENT QUALITY/PLANT PERFORMANCE**

A. For the permitted parameters, list the average monthly effluent concentration and average daily mass loading produced by your facility during your 12-month MWPP reporting period. Disregard any columns which are not applicable to your permit. Circle whether you are measuring ammonia nitrogen (NH<sub>3</sub>-N) or nitrate nitrogen (NO<sub>3</sub>-N).

**(1) CONCENTRATION**

**MWPP REPORTING PERIOD**

Year	Month	BOD <sub>5</sub> * (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N or NO <sub>3</sub> -N (mg/l)	Total Phosphorus (mg/l)	Fecal Coliform (Count/100 ml)	pH (Lowest/Highest)	Other
10	91	6	8				6.9/7.2	
11	91	12	15				6.8/7.3	
12	91	14	16				6.6/7.2	
1	92	15	15				6.6/7.2	
2	92	8	9				6.8/7.2	
3	92	8	9				6.9/7.2	
4	92	7	8				6.7/7.1	
5	92	8	14				6.8/7.1	
6	92	5	9				6.8/7.2	
7	92	4.6	9.6				6.8/7.1	
8	92	6.1	9.9				6.8/7.2	
9	92	3.9	6.2				6.9/7.2	

6h-12

00285

\*Use CBOD if applicable to your permit. Use CBOD on all BOD questions if applicable to your permit.

**(2) AVERAGE DAILY MASS LOADING**

**MWPP REPORTING**

**PERIOD**

<u>Year</u>	<u>Month</u>	<u>BOD<sub>5</sub></u> <u>(lbs/day)</u>	<u>TSS</u> <u>(lbs/day)</u>	<u>NH<sub>3</sub>-N or</u> <u>NO<sub>3</sub>-N</u> <u>(lbs/day)</u>	<u>Total</u> <u>Phosphorus</u> <u>(lbs/day)</u>	<u>Other</u>
<u>10</u>	<u>91</u>	<u>569</u>	<u>808</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>11</u>	<u>91</u>	<u>1157</u>	<u>1506</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>12</u>	<u>91</u>	<u>1726</u>	<u>1955</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>1</u>	<u>92</u>	<u>1976</u>	<u>1968</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>2</u>	<u>92</u>	<u>1084</u>	<u>1247</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>3</u>	<u>92</u>	<u>1143</u>	<u>1317</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>4</u>	<u>92</u>	<u>908</u>	<u>1049</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>5</u>	<u>92</u>	<u>1062</u>	<u>1720</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>6</u>	<u>92</u>	<u>712</u>	<u>1294</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>7</u>	<u>92</u>	<u>601</u>	<u>1244</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>8</u>	<u>92</u>	<u>632</u>	<u>1024</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>9</u>	<u>92</u>	<u>425</u>	<u>691</u>	<u>          </u>	<u>          </u>	<u>          </u>

B. List the monthly permit limits for the facility in the blanks below. Circle whether your permit lists ammonia nitrogen (NH<sub>3</sub>-N) or nitrate nitrogen (NO<sub>3</sub>-N).

**(1) CONCENTRATION (Attach Additional Sheets for OTHER if necessary)**

Fecal Coliform (Count/100 ml)	BOD <sub>5</sub> (mg/1)	TSS (mg/1)	NH <sub>3</sub> -N or NO <sub>3</sub> -N (mg/1)	Other	Other	Other
-----	20	20	-----	20	6.0	9.0
				D.O.	ph	ph

6h-14

**(2) AVERAGE DAILY MASS LOADING (Attach Additional Sheets for OTHER if necessary)**

BOD <sub>5</sub> (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N or NO <sub>3</sub> -N (lbs/day)	Other	Other	Other
3002	3002	-----	-----	-----	-----
90% of the Permit Limits: 2701.8	2701.8	-----	-----	-----	-----

00287

C. How many months did the effluent BOD<sub>5</sub> loading (lbs/day) exceed 90% of permit limits? 0 (Circle the appropriate number)

0-1 = 0 points;                      2 - 3 = 5 points;  
4 - 5 = 10 points;                      more than 5 = 15 points

D. How many months did the effluent BOD<sub>5</sub> concentration (mg/l) exceed permit limits? 0 (Circle the appropriate number)

0 = 0 points;                      1-2 = 5 points;                      3 or more = 30 points

E. How many months did the effluent TSS loading (lbs/day) exceed 90% of the permit limits? 0 (Circle the appropriate number)

0-1 = 0 points;                      2-4 = 5 points;  
5-6 = 10 points;                      7 or more = 15 points;

F. How many months did the effluent TSS concentration (mg/l) exceed permit limitations? 0 (Circle the appropriate number)

0 = 0 points;                      1-2 = 5 points;                      3 or more = 30 points

G. How many months did the effluent Ammonia-Nitrogen or Nitrate-Nitrogen loading (lbs/day) exceed 90% of the permit limits? N/A (Circle the appropriate number)

0-1 = 0 points;                      2-4 = 5 points;  
5-6 = 10 points;                      7 or more = 15 points

H. How many months did the effluent Ammonia-Nitrogen or Nitrate-Nitrogen concentration (mg/l) exceed permit limits? N/A (Circle the appropriate number)

0 = 0 points;                      1-2 = 5 points;                      3 or more = 30 points

I. How many months did the effluent fecal coliform concentration exceed the permit limits? N/A (Circle the appropriate number)

0 = 0 points;                      1-2 = 5 points;  
3-4 = 10 points                      5 or more = 30 points

J. How many months did the effluent Phosphorus loading (lbs/day) exceed 90% of the permit limits? N/A (Circle the appropriate number)

0-1 = 0 points;                      2-4 = 5 points;  
5-6 = 10 points;                      7 or more = 15 points

00288

6h-15  
6

K. How many months did the effluent Phosphorus concentration (mg/l) exceed the permit limits? N/A (Circle the appropriate number)

0 = 0 points;                      1-2 = 5 points;                      3 or more = 30 points

L. Was biomonitoring required by your NPDES Permit in the past year?

Yes                      No

a. If yes, has the biomonitoring been done? Yes Give results:

SPECIES	# OF TESTS	# PASSED	# FAILED	TEST TYPE
Daphnia Pulex	14	14	NONE	48 Hr. Acute
Pimephales Promel	14	14	NONE	48 Hr. Acute

b. Have biomonitoring requirements been met and testing complete? Circle One

Yes                      No

If yes, give date completed: November 1991 - Previous 14 months

00289

6h-16  
7

M. Add the point values circled for C through K and place in the box below.

C points = 0                      G points = N/A                      K points = N/A  
D points = 0                      H points = N/A  
E points = 0                      I points = N/A  
F points = 0                      J points = N/A

**TOTAL POINT VALUE FOR PART 2** 0

Enter the total point value for Part 2 on the point calculation table on the last page.

N. Print or type the name, title and telephone number of the person responsible for reporting permit non-compliance to State and Federal agencies:

<u>Brian Socia</u>	<u>Wastewater Treatment Super.</u>	<u>(915) 548-2237</u>
Name	Title	Telephone

00290

---

**PART 3: AGE OF THE WASTEWATER TREATMENT FACILITIES**

---

- A. What year was the wastewater treatment plant constructed or last major improvements to rehabilitate, expand or upgrade the plant completed? 1991

Current Year - (Answer to A.) = Age in Years

$$\underline{1992} - \underline{1991} = \underline{1} \text{ Years}$$

Enter Age in Part C below.

- B. Specify the type of treatment plant Conventional A.S.
- C. Check the type of treatment facility that is employed:

	<u>Factor</u>
<input checked="" type="checkbox"/> Mechanical Treatment Plant (Trickling filter, activated sludge, advanced treatment etc.)	2.0
<input type="checkbox"/> Aerated Lagoon	1.5
<input type="checkbox"/> Stabilization Pond/Wetlands	1.0

- D. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value of Part 3:

$$\text{TOTAL POINT VALUE FOR PART 3} = \frac{2}{\text{(factor)}} \times \frac{1}{\text{(age)}} = \frac{2}{\text{}}$$

Enter this value or 40, whichever is less, on the point calculation table on the last page.

---

**PART 5: ULTIMATE DISPOSITION OF SLUDGE**

---

A. What is the final disposition of sludge from your treatment plant?

Sludge is stored in a lagoon.

---

B. Describe basic sludge treatment processes of plant and final disposal: \_\_\_\_\_

Sludge is processed in a two stage digester to a volatile solids content  
of about 62%. The Sludge is mixed and heated in the first stage and  
seperated in the second stage. Gas is used to power Aux Engines. Digested  
Sludge is pumped to a Sludge Lagoon.

---

---

C. If sludge is disposed of by land application (surface application or shallow injection), complete the following: Section C. N/A

(1) Does your facility have access to sufficient land for: (Circle the appropriate point total) N/A

3 or more years = 0 points  
18-35 months = 10 points  
less than 18 months = 20 points

(2) What type of cover is on the site? N/A

- \_\_\_\_\_ Crops consumed by animals whose products are consumed by humans.
- \_\_\_\_\_ Crops that are directly consumed by humans.
- \_\_\_\_\_ Neither directly or indirectly consumed by humans.
- \_\_\_\_\_ No plant cover.

00292

6h-19



(3) Identify access to the land application site: N/A

By the public: \_\_\_\_\_

By grazing animals: \_\_\_\_\_

(4) Check applicable 40 CFR Part 257 requirements applicable to your final disposal: N/A

\_\_\_\_\_ Processes to Significantly Reduce Pathogens (PSRP)

\_\_\_\_\_ Processes to Further Reduce Pathogens (PFRP)

Is your treatment plant meeting sludge disposal requirements in accordance with 40 CFR Part 257? (Circle One)

Yes..... 0 Points

No..... 25 points

D. If the sludge is disposed of by landfilling (trenching or burial operation), complete the following: Section D. N/A

(1) Identify the means of disposal: N/A

\_\_\_\_\_ Monofill

\_\_\_\_\_ Combined with other municipal solid waste

\_\_\_\_\_ Other (Specify) \_\_\_\_\_

(2) Does your facility have access to sufficient land filling sites for: (Circle the appropriate point total) N/A

3 or more years = 0 points  
18-35 months = 10 points  
less than 18 months = 20 points

(3) Is the landfill registered/permitted to receive sludge? (Circle One)  
N/A

Yes..... 0 points

No.....25 points

N/A in New Mexico or Oklahoma, see E. or F. below

6h-20  
12

00293

---

**PART 6: OPERATOR CERTIFICATION AND TRAINING**

---

**A. Plant Personnel (As of the end of your last fiscal year)**

(1) Size (in MGD) and type of plant: 18.0 mgd Conventional Activated Sludge

(2) List the following number of personnel assigned full-time to this plant:

Management/Clerical 1

Maintenance 5

Operations 13

(3) Number of Other Support Personnel

**NOTE:** Prorate Plant personnel among all plants in your treatment system (based on size) for any centralized laboratory, management or other centralized maintenance or safety personnel in direct support of the plant. Do not include collection system personnel, legal, upper general management, purchasing, finance or other general personnel assigned to Utility headquarters.

6.5

(Round off to 0.1 full-time equivalent employees)

ATTACH summary of calculation

(4) Total equivalent positions (Add (A(2) and A(3)) 25.5

**B. Number of Certified Operators assigned to the plant:**

(1) Considering plant management and operations personnel only (i.e. not maintenance, clerical, laboratory, common laborers and warehouse) What number of Personnel should be state certified according to state certification requirements and/or your own job descriptions?

11

(2) For plants with more than ten operations personnel, are over 90% or more of required operations staff shown above in B(1) certified (including plant management in direct charge of operations)? (Circle One)

Yes..... 0 points

No.....15 points

(3) For plants with 10 or less Operations personnel, are there more than one (1) operator or supervisor in direct charge with no certification? (Circle One) N/A

Yes.....15 points

No..... 0 points

C. List points in 6B(2) or 6B(3) (as applicable) = 0

D. Do 75% or more of operations personnel that are required to have certification have the level of certification required to properly operate the plant in accordance with certification levels established by the state and your own personnel job description? (Circle One)

Yes..... 0 points

No.....15 points

E. (1) What do you consider to be the proper number of personnel to operate and maintain the plant? 20

(2) Is authorized (budgeted) staff 90% of proper manning level or within two positions of what you believe is necessary for a proper operation? (Circle One)

Yes..... 0 points

No..... 5 points

(3) What % of positions authorized are actually filled with employees?

90% or over = 0 points,      between 80 - 90% = 15 points;

less than 80% = 30 points

6h-22

F. Does the Chief Operator have the proper level of certification in accordance with state certification requirements?

Yes..... 0 points

No.....15 points

G. Does the Utility have a training program to assist certification efforts or reimburse employee training cost?

Yes..... 0 points

No..... 5 points

H. Does the Utility allow training and certification testing on company time?

Yes..... 0 points

No..... 5 points

I. Does the Utility have certification levels for each plant operator job description and allow no more than 18 month variance for an employee?

Yes..... 0 points

No..... 5 points

J. Does the Utility offer pay raises or other incentives for increased levels of state certification?

Yes..... 0 points

No..... 5 points

Sum of Questions:

6C	=	<u>0</u>
6D	=	<u>0</u>
6E(2)	=	<u>0</u>
6E(3)	=	<u>0</u>
6F	=	<u>0</u>
6G	=	<u>0</u>
6H	=	<u>0</u>
6I	=	<u>5</u>
6J	=	<u>5</u>

**TOTAL POINT VALUE FOR PART 6** 10

Enter this total on the point calculation table on the last page.



---

**PART 7: FINANCIAL STATUS**

---

All Financial Status Information should be based on your Last Fiscal Year Budget.

List Fiscal Year Begins: October 1, 1991

Ends: September 30, 1992

Did your municipality receive a Public Law 92-500 federal construction grant since March 1, 1973? (Circle one) Yes or No

If yes, do you have a user charge system in effect as required by Public Law 92-500 as a condition for receipt of the federal grant? (Circle One) Yes or No

- A. Are revenues and expenditures for the wastewater utility/system posted to or kept in accounts separate from non-sewer accounts (i.e., water utilities, public works, etc.)? (Circle One)

Yes                      No

Explain: Seperate Expense and Revenue Accounting is maintained in the Water Utility Enterprises Fund.

---

- (1) Are wastewater system expenditures ever paid for with non-wastewater system revenues? (Circle One)

Yes                       No

If Yes, explain: \_\_\_\_\_

---

- (2) Are wastewater system revenues ever used for non-wastewater system expenditures? (Circle One)

Yes                       No

If Yes, explain: \_\_\_\_\_

---

00299

B. Are all users or user classes charged based on the proportionate use of the wastewater treatment works? Attach a copy of the rate schedule(s). (Circle One)

Yes      No

If not, why? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(1) What was the total revenue for wastewater system user rates (do not include connection fees and other special fees) for the last fiscal year?

\$ 4,868,605

(2) What is your wastewater operating budget, not including debt service?

\$ 2,980,000

(3) What is your total wastewater operating budget?

\$ 3,840,000

C. Are separate equipment replacement funds maintained? Circle One

Yes..... 0 points

No..... 5 points

D. Were adequate maintenance funds budgeted last year to adequately maintain the facilities? Circle One

Yes..... 0 points

No..... 10 points

00300



7E. If any plant is over 15 years old with no major renovations or expansions answer:

Is there a definite plan to provide major mechanical or structural renovations or improvements (beyond what in-house maintenance forces can accomplish) in the next 5 years?

Yes..... 0 points

No.....10 points

If yes, explain future renovations and approximate time to be completed for each plant over 15 years:

---

Within the next 3 years Plant Evaluation will be made to determine

---

adequacy of treatment units or if additional units are needed to meet

---

more stringent discharge parameters effective September 1995.

---

---

---

---

---

---

7F. Do you collect proportionate fees from industries for extra strength wastes?  
Circle One

Do collect revenues for extra strength wastes = 0 points

Do not collect revenues for extra strength wastes = 10 points

\*List amount of revenues collected last year for extra strength wastes \$ 78,458

Sum of Questions:    7C = 0  
                              7D = 0  
                              7E = 0    If applicable  
                              7F = 0

TOTAL POINT VALUE FOR PART 7 0

Enter this total on the point calculation table on the last page.

00301

6h-28  
21

**PART 8: NEW DEVELOPMENT**

**PLEASE NOTE:** Answer this section based on the POTW's total wastewater service area, not the service area of the individual Plant. If the POTW must fill out multiple audit forms (i.e. because of multiple NPDES Plants); the answer will be the same for each audit form. If the POTW has one or more treatment plants with no discharge (i.e. with no NPDES permit) answer the questions based on the total system as if all plants had NPDES permits.

A. (1) Total Daily Design Capacity of all treatment plants in the system in MGD 18.0

(2) Average daily flow to all treatment plants last year in MGD 15.287

If (2) is less than 90% of (1).....0points

If (2) is greater than 90% of (1), is additional plant's capacity under design or construction to alleviate? <sup>N/A</sup>

- Yes..... 0 points
- \*  No, but not needed for at least 5 years - Explain..... 0 points
- No..... 15 points

Total Points 0

\*Explain: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. (1) What is the growth in wastewater flow over the past five years in % increase? 1.4

What is the increase in Average Daily flow (MGD) over the past five years? 1.4

(2) What is the expected increase in flow over the next four years (based on historical growth, known development or professionally prepared population projections), in % increase over the next four years? 1.0

in average daily flow (MGD) over the next four years? 1.0

- (3) Will the 4-year projected flow exceed current or planned plant capacity (include capacity of plants in design or construction which will be completed within 4 years as current capacity in answering this question)? (Circle One)

Yes.....25 points

No..... 0 points

- (4) Will the 4-year projected flow exceed 90% of current plant capacity (include capacity of plants in design or construction as current capacity in answering this question)? (Circle One)

Yes.....5 points

No.....0 points

Sum of Questions: 8A(2) = 0 points  
8B(3) = 0 points  
8B(4) = 0 points

**TOTAL POINT VALUE FOR PART 8 = 0**

**Enter this total on the point calculation on the last page**

00303

**PART 9: COLLECTION SYSTEM (TOTAL SYSTEM NOT JUST WHAT IS SERVING THIS PLANT)**

Answer these questions based on the total collection system serving all treatment plants in your system. If you must complete several Audit Reports (i.e. several plants), this section will be the same for all of them. If you wholesale to other entities, at this time, do not include data for their lines.

**A. Line Maintenance**

(1) Miles of line in system 543

(2) Miles cleaned or maintained last year with bucket machines, vacuum, jets, rodding machines, etc. 24

(3) Is A(2) at least 10% of A(1)? (Circle One)

Yes..... 0 points

No..... 10 points

**B. Did you have lines or lift stations that overflowed last year because of infiltration/inflow or overloaded conditions? (Circle One)**

No..... 0 points

Yes..... 10 points

If yes, how many during last year? 2

**Describe problem and what are you doing to eliminate problem?**

Overflow occurred twice on 48" main outfall. Currently we are attempting to reduce inflow by repairing upstream manholes and rehabilitating problem line segments with trenchless technology.

00304

6h-31  
24

C. Sewer Backups

Sewer backups means backups in sewer lines, not those caused by customer service lines. Backups means the stopping of flow such as to cause sewer to backup into customer premises or overflow at a manhole or other structure.

- (1) Miles of line in the system 543
- (2) Number of sewer backups last year 455
- (3) Is C(2) greater than C(1) or in other words did you have more than 1 backup last year per mile of pipe? (Circle One)

Yes.....25 points

No..... 0 points

- (4) Is C(2) more than half of C(1) or in other words did you have more than 1 backup last year per two miles of pipe? (Do not circle if you circled YES to answer C(3))

Yes.....10 points

No..... 0 points

- D. Is sewer system maintenance supervisor in charge state certified? (Circle One)

Yes..... 0 points

No.....10 points

- E. Does the collection system section have a planned maintenance program? (Circle One)

Yes..... 0 points

No..... 5 points

- F. Is there a planned or preventive maintenance program for Lift Stations? (Circle One)

Yes..... 0 points

No..... 5 points

- G. Is there an alarm system for monitoring lift station failure?

Yes   x  

No       

00305

H. Are adequate records generally maintained on backups, overflows, line failures, odor complaints, excessive infiltration? (Circle One)

Yes..... 0 points

No..... 5 points

I. What percent of sewer system flow on an annual basis is estimated to be from infiltration and inflow?

5 %

J. Do you have a program to reduce infiltration and inflow and if you do, please describe: Inflow and infiltration reductions are being addressed by system wide physical inspections television inspections, smoke testing and cleaning operations. Each of the 74 identified drainage basins are being individually audited and inspected. Every manhole and line segment will be subjected to inspection and testing. As sites of inflow or infiltration are identified remediation efforts will be initiated. Options that have been employed by the city and that will continue to be used are point repairs, line replacement, line rehabilitation (typically the Insituform process), manhole replacement and manhole rehabilitation.

Sum of Questions: 9A = 10  
9B = 10  
9C(3)orC(4) = 10  
9D = 0  
9E = 0  
9F = 0  
9H = 0

TOTAL POINT VALUE FOR PART 9 30

Enter this total on the point calculation table on the last page.

**PART 10: SUBJECTIVE EVALUATION**

A. Describe briefly the physical and structural conditions of this treatment facility:  
The Wastewater Plant is in good condition overall. Major upgrade work  
(additional Final Clarifiers, Primary Clarifiers, Sludge Pump Station,  
Dechlorination Facilities, Influent Structure, Metering Devices, ect).  
Completed in 1991.

B. Are there any significant problems over the last year that have threatened your ability to treat wastewater at this facility? No

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

C. Are there industrial dischargers to this wastewater plant? (Circle One)

Yes      No

Describe major or significant industrial discharges to this plant: Caldwell  
Products-Electroplating, Hendrick Medical Center-Healthcare,  
Crown Cork & Seal-Aluminum Can Manuf., Humana Hospital-Healthcare,  
General Dynamics-Metal Finishing, Texas Instruments-Circuit Board,  
Pride Oil Refinery-Oil Refining, Wire Harness Manufacture,  
U.S. Brass-Metal Finishing, Abilene State School-MHMR Facility,  
Victor Equipment-Metal Finishing, Coca-Cola-Soft Drink Manufacture,  
Micro Metals-Metal Finishing, National Linen-Industrial Laundry,  
Dyess Air Force Base-Military Inst.

D. Do you have an industrial pretreatment program? (Circle One)

Yes      No

00307

E. Have you pursued source reduction to reduce the load on your treatment works? (Circle One)

Yes       No

If yes, describe: Extensive Pre-Treatment Program in place since 1983.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

F. How are septic tank pumpings (septage) handled at the treatment plant or land application site? Septic Tank Waste not accepted at POTW.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

G. Have you considered development of a plan to address water conservation? (Circle One)

Yes       No

If yes, describe: Have developed Water Management Plan that includes water Management, Demand Management, Regulation Drought Contingency Plan, Plumbing Code Requirements, Water Reuse Plan, Xeriscape Program, Public Information, and Education Programs.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

00308



H. Is your treated wastewater effluent reused outside the treatment facility?  
(Circle One)

Yes

No

If yes, describe: A portion of our effluent is diverted to several land owners for irrigation purposes.

---

---

---

---

---

---

(1) What potential reuse alternatives are available?

Describe: Additional irrigation of Agricultural Lands, Golf Courses and Parks.

---

---

---

---

I. Has an energy audit been performed to determine the minimum amount of energy needed for efficient operation and maintenance? (Circle One)

Yes

No

If yes, describe: \_\_\_\_\_

---

---

---

---

---

00309

6h-36

J. Is your sludge recycled for beneficial use? (Circle One)

Yes

No

If yes, describe beneficial use: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If yes, are the requirements of 40 CFR 257 being met? (Circle One)

Yes

No

K. Do you have a program to collect hazardous household wastes directly from individuals at the wastewater treatment plant or other location to prevent disposal in the wastewater collection system? (Circle One)

Yes

No

If yes, describe: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

L. Do you recover digester gas or have any other type of recycling or special program associated with your wastewater treatment system? (Circle One)

Yes

No

If yes, describe: We recover digester gas for fuel supply for two gas engines. The engines drive Centrifugal Blowers.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

M. Does your treatment system have a planned maintenance program including a preventive maintenance program on major equipment items and treatment plant? (Circle One)

Yes

No

If yes, describe: All maintenance work is logged and saved for future reference. Every piece of equipment is on a maintenance schedule.

---

---

---

---

N. Does this preventive maintenance program specify frequency of intervals, types of lubrication, types of repair, and other preventive maintenance tasks necessary for each major piece of equipment? (Circle One)

Yes

No

O. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly? (Circle One)

Yes

No

P. Is an inventory of spare parts and preventive maintenance supplies maintained (i.e. oil, grease, packing, etc.)? (Circle One)

Yes

No

## POINT CALCULATION TABLE

Fill in the Values from Parts 1 through 9 in the columns below. Add the numbers in the left column to determine the point total that the wastewater system has generated for the previous year.

<u>ACTUAL VALUE PART</u>	<u>ACTUAL VALUE</u>	<u>MAXIMUM POSSIBLE</u>
Part 1: Influent Flow/Loadings	<u>5</u>	60 points
Part 2: Effluent Quality/Plant Performance	<u>0</u>	230 points
Part 3: Age of WWTT	<u>2</u>	40 points
Part 4: Plant Overflows and Bypasses	<u>0</u>	100 points
Part 5: Ultimate Disposition of Sludge	<u>0</u>	45 points
Part 6: Operator Certification Training	<u>10</u>	100 points
Part 7: Financial Status	<u>0</u>	35 points
Part 8: New Development	<u>0</u>	45 points
Part 9: Collection System	<u>30</u>	70 points
<b>TOTAL POINTS</b>	<u>47</u>	<b>725 POINTS</b>

NOTE: Add pages as necessary to answer any questions.  
Refer to each question that supplemental information is provided for.

00312

6h-39