

Resolution Number 04-02-2001

MUNICIPAL WASTEWATER PLANNING PROGRAM RESOLUTION

RESOLVED that SANTAQUIN CITY informs the Water Quality Board the following actions were taken by the CITY COUNCIL

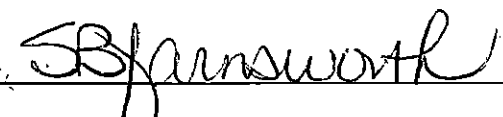
1. Reviewed the Municipal Wastewater Planning Program Report for 2000, which is attached to this resolution.
2. Have taken all appropriate actions necessary to maintain effluent requirements contained in the UPDES Permit (If Applicable)

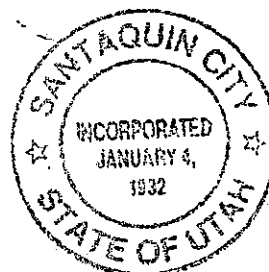
Passed by a (majority) (unanimous) vote on

4-04-01

(date)


(Mayor/Chairman)


Attest: Recorder/Clerk



STATE OF UTAH

MUNICIPAL WASTEWATER PLANNING PROGRAM

SELF-ASSESSMENT REPORT

FOR

SANTAQUIN CITY

2000



Municipal Wastewater Planning Program (MWPP) Collection System Section

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Dennis Barnes

Public Works Supervisor

Phone: 754-3211

PLEASE SUBMIT TO STATE BY: MARCH 1, 2001

Mail to: MWPP c/o Jennifer Strong
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : 538-6146
E-mail: JSTRONG@DEQ.STATE.UT.US

Form completed by

Dennis Barnes

Part I: SYSTEM AGE

- A. Approximately in what year was your collection system first constructed ?

Year 1995

- B. How old is the oldest part of your present system ?

Oldest part 6 years

Part II: BYPASSES

- A. Please complete the following table:

Question	Number	Points Earned	Total Points
How many days in the past year was there a bypass, overflow or basement flooding by untreated wastewater in the system due to rain or snowmelt?	0	0 times = 0 points 1 time = 5 points 2 times = 10 points 3 times = 15 points 4 times = 20 points 5 or more = 25 points	0
How many days in the last year was there a bypass, overflow or basement flooding by untreated wastewater due to equipment failure? (except plugged laterals)	1	0 times = 0 points 1 time = 5 points 2 times = 10 points 3 times = 15 points 4 times = 20 points 5 or more = 25 points	5
TOTAL PART II =			5

- B. Please specify whether the bypasses was caused a contract or tributary communities, etc.

Part III : NEW DEVELOPMENT

A. Please complete the following table:

Question	Points Earned	Total Points
Has there been any major new developments (industrial, commercial, or residential) such that flow in the system has significantly increase (10 - 20%) or > 25,000 gallons/day within the last year?	No = 0 points Yes = 10 points	0
Are there any new major new developments (industrial, commercial, or residential) planned in the next 2-3 years such that flow in the system could significantly increase (10 - 20%) or > 25,000 gallons/day ?	No = 0 points Yes = 10 points	10
TOTAL PART III =		10

B. Approximate number of new residential sewer connections in the last year

85 new residential connections

C. Approximate number of new commercial/industrial connections in the last year

0 new commercial/industrial connections

D. Approximate number of new population serviced in the last year

255 new people served

Part IV: OPERATOR CERTIFICATION

A. How many collection system operators are currently employed by your system?

5 collection system operators employed

B. What is/are the name(s) of your DRC operator(s)?

Dennis Barnes, Wade Eva, Mike Cruz, Ray Ross, Jason Callaway

Part IV: OPERATOR CERTIFICATION (cont.)

- C. You are required to have the DRC operator(s) certified at small lagoon system .

What is the current grade of the DRC operator(s)? 1

- D. State of Utah Administrative Rules require all operators considered to be in DRC to be appropriately certified. List all the operators in your system by their certification class.

Not Certified _____
Collection I 5
Collection II _____
Collection III _____
Collection IV _____

- E. Complete the following table:

Question	Points Earned	Total Points
Is the DRC operator currently certified at the appropriate grade for this facility? (see C)	Yes = 0 points No = 50 points	0
How many CEUs has the DRC operator completed over the last 3 years?	3 or more = 0 points less than 3 = 10 points	0
TOTAL PART IV =		0

Part V: SYSTEM MAINTENANCE

- A. Please check the appropriate box:

Do you have any of the following?	Yes	No
traffic control devices (cones, barricades, etc.)	<input checked="" type="checkbox"/>	
safety harness, winch, tripod	<input checked="" type="checkbox"/>	
ventilation equipment	<input checked="" type="checkbox"/>	
explosive meter/O ₂ meter	<input checked="" type="checkbox"/>	
self contained breathing apparatus	<input checked="" type="checkbox"/>	
a written confined space entry program	<input checked="" type="checkbox"/>	

Part V: SYSTEM MAINTENANCE(cont.)

B. Please complete the following table:

Question	Points Earned	Total Points
Do you follow an annual preventative maintenance program? (ie. annual flushing, T.V. of lines, etc.)	Yes = 0 points No = 30 points	0
Is it written?	Yes = 0 points No = 20 points	0
Do you have an written emergency response plan?	Yes = 0 points No = 20 points	0
Do you have an written safety plan?	Yes = 0 points No = 20 points	0
TOTAL PART V =		0

Part VI: SUBJECTIVE EVALUATION

This section should be with the system operators.

A. Describe the physical condition of the sewer collection system: (lift stations, etc. included)

Excellent

B. What sewerage system improvements does the community have under consideration for the next 10 years?

Expand winter storage pond

Two new lift stations

Lines with new development & growth

Up sizing major trunk lines

Screening filtering system for re-use

Part VI: SUBJECTIVE EVALUATION (cont.)

C. Explain what problems, other than plugging have you experienced over the last year

NONE

D. Is your community presently involved in formal planning for system expansion/upgrading? If so explain.

We are participating in a study looking at a regional wastewater treatment plant.
This study is being done by Brown & Caldwell for SUVMWA.

E. How many times in the last year were there sewage in basements at any point in the collection system for any reason, except plugging of the lateral connections?

1 times sewage was in basements

F. Does the municipality/district pay for the continuing education expenses of operators?

ALWAYS x SOMETIMES _____ NO _____

If they do, what percentage is paid?

approximately 100 %

G. Is there a written policy regarding continuing education and training for wastewater operators?

YES x NO _____

H. Any additional comments? (Attach additional sheets if necessary.)

POINT SUMMATION

Fill in the values from Parts II through V in the blanks provided in column 1. Add the numbers to determine the MWPP point total that your wastewater facility has generated for the past twelve months.

Part	Points
II	5
III	10
IV	0
V	0
Total	15

Municipal Wastewater Planning Program (MWPP) Financial Evaluation Section

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person: Dennis Barnes
Public Works Supervisor

Phone: (801) 754-3211

PLEASE SUBMIT TO STATE BY: MARCH 1, 2001

Mail to: MWPP c/o Jennifer Strong
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : 538-6146
E-mail: JSTRONG@DEQ.STATE.UT.US

NOTE: This questionnaire has been compiled for your benefit by a state sponsored task force comprised of representatives of local government and service districts. It is designed to assist you in making an evaluation of your wastewater system and financial planning. Please answer questions as accurately as possible to give you the best evaluation of your facility. If you need assistance please call Nancy Hess, Utah Division of Water Quality, (801) 538-6070.

I. Definitions: The following terms and definitions may help you complete the work-sheets and questionnaire:

User Charge (UC) - A fee established for one or more class(es) of users of the wastewater treatment facilities that generate revenues to pay for costs of the system.

Operation and Maintenance Expense - Expenditures incurred for materials, labor, utilities, and other items necessary for managing and maintaining the facility to achieve or maintain the capacity and performance for which it was designed and constructed.

Repair and Replacement Cost - Expenditures incurred during the useful life of the treatment works for obtaining and installing equipment, accessories, and/or appurtenances necessary to maintain the existing capacity and the performance for which the facility was designed and constructed.

Capital Needs - Cost to construct, upgrade or improve the facility.

Capital Improvement Reserve Account - A reserve established to accumulate funds for construction and/or replacement of treatment facilities, collection lines or other capital improvement needs.

Reserve for Debt Service - A reserve for bond repayment as may be defined in accordance with terms of a bond indenture.

Current Debt Service - Interest and principal costs for debt payable this year.

Repair and Replacement Sinking Fund - A fund to accumulate funds for repairs and maintenance to fixed assets not normally included in operation expenses and for replacement costs (defined above).

Part I: OPERATION AND MAINTENANCE

Complete the following table:

Question	Points Earned	Total
Are revenues sufficient to cover operation, maintenance, and repair & replacement (OM&R) costs <u>at this time</u> ?	YES = 0 points NO = 25 points	0
Are the projected revenues sufficient to cover operation, maintenance, and repair & replacement (OM&R) costs for the <u>next five years</u> ?	YES = 0 points NO = 25 points	0
Does the facility have sufficient staff to ensure proper O&M?	YES = 0 points NO = 25 points	0
Has a dedicated sinking fund been established to provide for repair & replacement costs?	YES = 0 points NO = 25 points	0
Is the repair & replacement sinking fund adequate to meet anticipated needs?	YES = 0 points NO = 25 points	0
TOTAL PART I =		0

Part II: CAPITAL IMPROVEMENTS

Complete the following table:

Question	Points Earned	Total
Are present revenues collected sufficient to cover all costs and provide funding for capital improvements?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the <u>next five years</u> ?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the <u>next ten years</u> ?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the <u>next twenty years</u> ?	YES = 0 points NO = 25 points	0
Has a dedicated sinking fund been established to provide for future capital improvements?	YES = 0 points NO = 25 points	0
TOTAL PART II =		0

Part III: GENERAL QUESTIONS

Complete the following table:

Question	Points Earned	Total
Is the wastewater treatment fund a separate enterprise fund/account or district?	YES = 0 points NO = 25 points	25
Are you collecting 95% or more of your sewer billings?	YES = 0 points NO = 25 points	0
Is there a review, at least annually, of user fees?	YES = 0 points NO = 25 points	0
Are bond reserve requirements being met if applicable?	YES = 0 points NO = 25 points	0
TOTAL PART III =		25

Part IV: PROJECTED NEEDS

Estimate as best you can the following:

	2001	2002	2003	2004	2005
cost of projected capital improvements (in thousands)	350	350	25	25	25

Point Summation

Fill in the values from Parts I through III in the blanks provided in column 1. Add the numbers to determine the MWPP point total that reflects your present financial position for meeting your wastewater needs.

Part	Points
I	0
II	0
III	25
Total	25

Municipal Wastewater Planning Program (MWPP) Non-Discharging Lagoon Facility Section

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Dennis Barnes

Public Works Supervisor

Phone: (801) 754-3211

PLEASE SUBMIT TO STATE BY: MARCH 1, 2001

Mail to: MWPP c/o Jennifer Strong
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : 538-6018
E-mail: JSTRONG@DEQ.STATE.UT.US

Form completed by

Dennis Barnes

Part I: INFLUENT INFORMATION

- A. List the average design flow and average design BOD₅ and TSS loading for your facility.

	Average Design Flow (MGD)	Average Design BOD ₅ Loading (lbs/day)	Average Design TSS Loading (lbs/day)
Design Criteria	.493	1030	1030
90% of the Design Criteria	.444	.835	.835

- B. List the average monthly flows in millions of gallons per day (MGD) and BOD₅ and TSS loadings in milligrams per liter (mg/L) received at your facility during 2000.. (Calculate the BOD₅ and TSS loadings in pounds per day (lbs/day).

Month	(1) Average Monthly Flow (MGD)	(2) Average Monthly BOD ₅ Concentration (mg/L)	(3) Average BOD ₅ Loading (lbs/day)	(4) Average Monthly TSS Concentration (mg/L)	(5) Average TSS Loading (lbs/day)
January	.285	200	475	190	452
February	.275	170	390	228	523
March	.300	200	500	190	475
April	.310	220	569	184	476
May	.340	180	510	175	496
June	.360	260	780	196	588
July	.345	140	403	110	316
August	.325	110	298	100	271
September	.286	270	572	170	405
October	.311	320	830	230	597
November	.279	200	465	140	326
December	.270	160	360	46	104
Average	.307	200	513	163	419

1 BOD₅ Loading (3) = Average Monthly Flow (1) x Average Monthly BOD₅ Concentration (2) x 8.34

2 TSS Loading (5) = Average Monthly Flow (1) x Average Monthly TSS Concentration (4) x 8.34

Part I. INFLUENT INFORMATION (cont.)

- C. Refer to the information in A & B to determine a point value for your facility. Enter the points for each question in the blank provided.

Question	Number	Points Earned	Total Points
How many times did the average monthly flow (Part B., Column 1) to the wastewater facility exceed 90% of design flow?	0	0 = 0 points 1-2 = 10 points 3-4 = 20 points 5 or more = 30 points	0
How many times did the average monthly flow (Part B., Column 1) to the wastewater facility exceed the design flow?	0	0 = 0 points 1-2 = 20 points 3-4 = 40 points 5 or more = 60 points	0
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed 90% of the design loading?	0	0-1 = 0 points 1-2 = 10 points 3-4 = 20 points 5 or more = 30 points	0
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed the design loading?	0	0 = 0 points 1-2 = 20 points 3-5 = 40 points 5 or more = 60 points	0
TOTAL PART I =			0

Part II: FACILITY AGE

In what year were the following process units constructed or underwent a major upgrade?
To determine a point score subtract the construction or upgrade year from 2000.

$$\text{Points} = \text{Age} = \text{Present Year} - \text{Construction or Upgrade Year.}$$

Enter the calculated age below.

If the point total exceeds 20 points, enter only 20 points. for Part III total.

Unit Process	Present Year	Construction or Upgrade Year	Age = Points
Headworks	2000	1995	6
Lagoons (including aeration)	2000	1995	6
Disinfection	2000	1995	6
TOTAL PART II (not greater than 20) =			18

Part III: BYPASSES

Complete the following table:

Question	Number	Points Earned	Total Points
How many days in the past year was there a bypass or overflow of untreated wastewater due to high flows?	0	0 = 0 points 1 = 5 points 2 = 10 points 3 = 15 points 4 = 20 points 5 or more = 25 points	0
How many days in the last year was there a bypass or overflow of untreated wastewater due to equipment failure?	0	0 = 0 points 1 = 5 points 2 = 10 points 3 = 15 points 4 = 20 points 5 or more = 25 points	0
TOTAL PART III =			0

POINT SUMMATION

Fill in the values from Parts I through VI in the blanks provided in column 1. Add the numbers to determine the MWPP point total that your wastewater facility has generated for the past twelve months.

Part	Points
I	0
II	18
III	0
IV	0
V	0
VI	0
Total	18

Part IV: NEW DEVELOPMENT

A. Complete the following table:

Question	Points Earned	Total Points
Has an industry (or other development) moved into the community or expanded production in the past two years, such that either flow or wastewater loadings to the sewerage system were significantly increased (10 - 20%)?	No = 0 points Yes = 10 points	0
Are there any major new developments (industrial, commercial, or residential) anticipated in the next 2 - 3 years, such that either flow or BOD ₅ loadings to the sewerage system could significantly increase (25%)?	No = 0 points Yes = 10 points	0
Have you experienced any upset due to septic haulers?	No = 0 points Yes = 10 points	0
TOTAL PART IV =		0

- B. Approximate number of new residential sewer connections in the last year
85 new residential connections
- C. Approximate number of new commercial/industrial connections in the last year
0 new commercial/industrial connections
- D. Approximate number of new population serviced in the last year
255 new people served

Part V: OPERATOR CERTIFICATION

A. How many treatment system operators are currently employed by your facility?

5 treatment system operators employed

B. What is/are the name(s) of your DRC operator(s)?

Dennis Barnes, Wade Eva, Mike Cruz, Ray Ross, Jason Callaway

C. You are required to have the DRC operator(s) certified at a small lagoon system .

What is the current grade of the DRC operator(s)? 1

D. State of Utah Administrative Rules require all operators considered to be in DRC to be appropriately certified. List all the operators in your system by their certification class.

Not Certified	<u> </u>
Small Lagoon System	<u>1</u>
Treatment I	<u> </u>
Treatment II	<u> </u>
Treatment III	<u> </u>
Treatment IV	<u> </u>

E. Complete the following table:

Question	Points Earned	Total Points
Is the DRC operator currently certified at the appropriate grade for this facility? (see C)	Yes = 0 points No = 50 points	0
How many continuing education units has the DRC operator completed over the last 3 years?	3 or more = 0 points less than 3 = 10 points	0
TOTAL PART V =		0

Part VI: FACILITY MAINTENANCE

A. Complete the following table:

Question	Points Earned	Total Points
Do you follow an annual preventative maintenance program?	Yes = 0 points No = 30 points	0
Is it written?	Yes = 0 points No = 20 points	0
Do you have an written emergency response plan?	Yes = 0 points No = 20 points	0
Do you have an updated operations and maintenance manual	Yes = 0 points No = 20 points	0
Do you have an written safety plan?	Yes = 0 points No = 20 points	0
TOTAL PART VI =		0

Part VII: SUBJECTIVE EVALUATION

This section should be completed with the facility operators.

A. Do you consider your wastewater facility to be in good physical and structural condition?

YES x NO

If NO, why?

B. What improvements do you think the plant will need in the next 5 years?

Expand winter storage pond.

Part IX: SUBJECTIVE EVALUATION (cont.)

- C. Did you experienced backups into basements at any point in the collection system in 2000

YES ☒ NO ☐

Why? (do not include backups due to clogged laterals)

Blockage in Main

- D. Does the municipality/district pay for the continuing education expenses of operators?

ALWAYS ☒ SOMETIMES ☐ NO ☐

If they pay, what percentage?

approximately 100 %

- E. Is there a written policy regarding continuing education and training for wastewater operators?

YES ☒ NO ☐

- F. Have you done any major repairs or mechanical equipment replacement in 2000?
(do not include construction or upgrade projects)

YES ☐ NO ☒

- G. What was the approximate cost for those repairs or replacements?
\$

- H. Any additional comments? (Attach additional sheets if necessary.)
