

Santaquin City Resolution 02-02-2014

MUNICIPAL WASTEWATER PLANNING PROGRAM RESOLUTION

WHEREAS, the City of Santaquin is a fifth class city in the State of Utah and operates a Wastewater Collection and Treatment System; and

WHEREAS, the Utah Division of Water Quality requires of the Santaquin City Public Works Department an annual Wastewater Planning Program Report; and

WHEREAS, the Utah Division of Water Quality desires formal action of the Santaquin City Council to review said report prior to its submission to the division;

NOW, THEREFORE, BE IT RESOLVED, that the Santaquin City Council informs the Water Quality Board that the following actions were taken by the City Council:

1. Reviewed the attached Municipal Wastewater Planning Program Report for 2013 (See Attached)
2. Have taken all appropriate actions necessary to maintain effluent requirements contained in the UPDES Permit (If Applicable)

Approved and adopted by the Santaquin City Council this 5th day of February, 2014.



Kirk F. Hunsaker, Mayor

Attest: 
Susan B. Farnsworth, City Recorder



STATE OF UTAH

MUNICIPAL WASTEWATER PLANNING PROGRAM

SELF-ASSESSMENT REPORT

FOR

SANTAQUIN

2013



Resolution Number 02-02-2014

MUNICIPAL WASTEWATER PLANNING PROGRAM RESOLUTION

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

1. Reviewed the attached Municipal Wastewater Planning Program Report for 2013.
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

2-5-2014
(date)



Mayor/Chairman



Attest:

Recorder/Clerk



**Municipal Wastewater Planning Program (MWPP)
Financial Evaluation Section**

Owner Name: SANTAQUIN

Name and Title of Contact Person:

	<u>JASON CALLAWAY (DEC)</u>	<u>BENJAMIN A. REEVES</u>
		<u>SANTAQUIN CITY MANAGER</u>
Phone:	<u>(801) 420-3033</u>	<u>(801) 754-3211x 205</u>
E-mail:	<u>jcallaway@santaquin.org</u>	<u>breeves@santaquin.org</u>

PLEASE SUBMIT TO STATE BY: March 1, 2014

Mail to: MWPP - Department of Environmental Quality
c/o Paul Krauth, P.E.
Division of Water Quality
195 North 1950 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : (801) 536-4346

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, Emily Cantón. Utah Division of Water Quality: (801) 536-4342.

I. Definitions: The following terms and definitions may help you complete the worksheets 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

Hiring Approval in March →

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	0
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 =		0

Part IV: PROJECTED NEEDS

Estimate as best you can the following:

Cost of projected capital improvements (in thousands)	2014	2015	2016	2017	2018
	0	0	0	0	0

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	0
Total	0

Municipal Wastewater Planning Program (MWPP) Collection System Section

Owner Name: SANTAQUIN

Name and Title of Contact Person:

JASON Callaway

Phone:

(801) 420-3033

E-mail:

jcallaway@santaquin.org

PLEASE SUBMIT TO STATE BY: March 1, 2014

Mail to: MWPP - Department of Environmental Quality
c/o Paul Krauth, P.E.
Division of Water Quality
195 North 1950 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : (801) 536-4346

Form completed by

jc

Part I: SYSTEM AGE

A. What year was your collection system first constructed (approximately)?

Year 1995

B. What is the oldest part of your present system?

Oldest part 19 years

Part II: BYPASSES

A. Please complete the following table:

Question	Number	Points Earned	Total Points
How many days last year was there a bypass, overflow or basement flooding by untreated wastewater in the system due to rain or snowmelt?		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 5
How many days last year was there a bypass, overflow or basement flooding by untreated wastewater due to equipment failure? (except plugged laterals)		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
TOTAL PART II =			5 5

B. The Utah Sewer Management Program defines sanitary sewer overflows into two classes:

Number of Class 1 SSOs in Calendar year 2013 1

Number of Class 2 SSOs in Calendar year 2013 0

Class 1 - a Significant SSO means a SSO or backup that is not caused by a private lateral obstruction or problem that:

- (a) effects more than five private structures;
- (b) affects one or more public, commercial or industrial structure(s);
- (c) may result in a public health risk to the general public;
- (d) has a spill volume that exceeds 5,000 gallons, excluding those in single private structures; or
- (e) discharges to Waters of the state.

Class 2 – a Non-Significant SSO means a SSO or backup that is not caused by a private lateral obstruction or problem that does not meet the Class 1 SSO criteria.

Part II: BYPASSES (cont.)

- C. Please specify whether the bypass(es) was caused a contract or tributary communities, etc.

Part III: NEW DEVELOPMENT

- A. Please 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
TOTAL PART III =		0

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

72 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

230 new people served

Part IV: OPERATOR CERTIFICATION

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

5 collection system operators employed

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

JASON CALLAWAY (DRC) WADE EVA

PAT HATFIELD GREGG HIATT

DENNIS BARNES

C. You are required to have the collection DRC operator(s) certified at **Grade II**

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

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 _____

Small Lagoons _____

Collection I _____

Collection II 5

Collection III _____

Collection IV _____

E. Please complete the following table:

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

Part V: FACILITY MAINTENANCE

A. Please 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 a 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 a 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. Has your system completed it's the Utah Sewer Management Program.

Yes X NO _____

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

New in 95, all plastic pipe with
concrete manholes, New Lift station pumps
(2013)

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

CONTINUED EXPANSION OF MBR AS NEEDED TO MEET GROWTH

Part VI: SUBJECTIVE EVALUATION (cont.)

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

We had a 50 year thunderstorm event that overwhelmed the collection system and caused multiple backups in homes. (September 7)

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

Santaquin City disbanded the lagoons and directed all flow to a new WRF which included 7000' of new collection line. Santaquin City is continually in discussion with developers about future expansion of city limits and infrastructure.

F. Has your system completed it's System Evaluation and Capacity Assurance Plan As defined by the Utah Sewer Management Program.

Yes ~~___~~ NO _____

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

ALWAYS SOMETIMES _____ NO _____

If they do, what percentage is paid?

approximately 100 %

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

YES NO _____

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	0
IV	0
V	0
Total	5

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

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Jason Callaway
Callaway, Jason

Phone: 801-420-3033

E-mail: jcallaway@santaquin.org

PLEASE SUBMIT TO STATE BY: March 1, 2014

Mail to: MWPP - Department of Environmental Quality
c/o Paul Krauth, P.E.
Division of Water Quality
195 North 1950 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : (801) 536-4346

Form completed by

JC

Part I: INFLUENT INFORMATION

A. Please update (if needed) 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	.505	1030	1030
90% of the Design Criteria	.455	927	927

B. Please 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 2013. (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) 1	(4) Average Monthly TSS Concentration (mg/L)	(5) Average TSS Loading (lbs/day) 2
January	.547	245	1120	242	1100
February	.520	281	1220	278	1205
March	.498	272	1130	228	947
April	.491	215	880	212	868
May	.490	231	944	256	1046
June	.469	176	688	214	837
July	.485	161	651	226	914
August	.492	219	898	238	977
September	.508	269	1140	208	881
October	.525	228	998	242	1060
November	.520	201	872	206	893
December	.530	210	928	200	884
Average	.506	225	955	229	968

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. Please 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 points 1 - 2 = 10 points 3 - 4 = 20 points 5 or more = 30 points	30
How many times did the average monthly flow (Part B., Column 1) to the wastewater facility exceed the design flow?		0 = 0 points 1 - 2 = 20 points 3 - 4 = 40 points 5 or more = 60 points	60
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed 90% of the design loading?		0-1 = 0 points 1 - 2 = 10 points 3 - 4 = 20 points 5 or more = 30 points	30
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed the design loading?		0 = 0 points 1 - 2 = 20 points 3 - 5 = 40 points 5 or more = 60 points	60
TOTAL PART I =			180

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 2013.

Points = Age = Present Year - Construction or Upgrade Year.

Enter the calculated age below.

If the point total exceeds 20 points, enter only 20 points

Unit Process	Present Year	Construction or Upgrade Year	Age = Points
Headworks	2013	2013	0
Lagoons (including aeration)	2013	2013	0
Disinfection	2013	2013	0
TOTAL PART II (not greater than 20) =			0

Part III: BYPASSES

Please 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 points 1 = 5 points 2 = 10 points 3 = 15 points 4 = 20 points 5 or more = 25 points	0
TOTAL PART III =			0

Part IV: NEW DEVELOPMENT

A. Please 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 septage haulers?	No = 0 points Yes = 10 points	0
TOTAL PART IV =		0

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

12 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

230 new people served

Part V: OPERATOR CERTIFICATION

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

4 treatment system operators employed

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

Jason Callaway

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)? grade III

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>3</u>
Small Lagoons	<u>1</u>
Treatment I	<u>2</u>
Treatment II	_____
Treatment III	_____
Treatment IV	<u>1</u>

E. Please complete the following table:

Question	Points Earned	Total Points
Is/are your DRC operator(s) currently certified at the appropriate grade for this facility? (see C)	Yes = 0 points No = 50 points	0
How many continuing education units has each of the DRC operator(s) 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. Please 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 a 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 a 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 NO _____

If NOT, why?

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

Just completed a \$18,000,000 treatment
plant

- C. Where there any backups into basements at any point in the collection system in 2013.

YES NO _____

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

We experienced a 50 year storm that
overwhelmed the collection system and lift
stations

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

ALWAYS SOMETIMES _____ NO _____

If so, what percentage do they pay?

approximately _____ %

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

YES NO _____

POINT SUMMATION

Fill in the values from Parts I through VII 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	180
II	0
III	0
IV	0
V	0
VI	0
Total	180