

*Municipal Wastewater Planning Program (MWPP)*  
*Annual Report*  
*for the year ending 2019*  
**PAYSON CITY**

Thank you for filling out the requested information. Please let DWQ know when it is approved by the Council.

**Please download a copy of your form by clicking "Download PDF" below.**

Below is a summary of your responses

[Download PDF](#)

**SUBMIT BY APRIL 15, 2020**

Are you the person responsible for completing this report for your organization?

☒ **Yes**

☐ **No**

This is the current information recorded for your facility:

<b>Facility Name:</b>	PAYSON CITY
<b>Contact - First Name:</b>	Nestor
<b>Contact - Last Name:</b>	Gallo
<b>Contact - Title</b>	Development Engineer

<b>Contact - Phone:</b>	801-879-5487
<b>Contact - Email:</b>	nestorg@payson.org

Is this information above complete and correct?

☒ **Yes**

☐ No

Your wastewater system is described as Collection, Mechanical Treatment & Financial:

**Classification:** COLLECTION

**Grade:** III

(if applicable)

**Classification:** TREATMENT

**Grade:** IV

Is this correct?

**WARNING:** If you select 'no', you will no longer have access to this form upon clicking Save & Continue. DWQ will update the information and contact you again.

☒ **Yes**

☐ No

Click on a link below to view examples of sections in the survey:  
(Your wastewater system is described as Collection, Mechanical Treatment & Financial)

[MWPP Collection System.pdf](#)

[MWPP Discharging Lagoon.pdf](#)

[MWPP Financial Evaluation.pdf](#)

[MWPP Mechanical Plant.pdf](#)

[MWPP Non-Discharging Lagoon.pdf](#)

Will multiple people be required to fill out this form?

☐ Yes

☒ No

## *Financial Evaluation Section*

Form completed by:

Nestor Gallo

### Part I: GENERAL QUESTIONS

Yes

No

Are sewer revenues maintained in a dedicated purpose enterprise/district account?

☒

☐

Yes

No

Are you collecting 95% or more of your anticipated sewer revenue?

☒

☐

Are Debt Service Reserve Fund<sup>6</sup> requirements being met?

☒

☐

What was the User Charge<sup>16</sup> for 2019?

35.58

Do you have a water and/or sewer customer assistance program \* (CAP)?

☒ Yes

☐ No

## Part II: OPERATING REVENUES AND RESERVES

Yes

No

Are property taxes or other assessments applied to the sewer systems<sup>15</sup>?

☐☒

Yes

No

Are sewer revenues<sup>14</sup> sufficient to cover operations & maintenance costs<sup>9</sup>, and repair & replacement costs<sup>12</sup> (OM&R) at this time?

☐☒

Are projected sewer revenues sufficient to cover OM&R costs for the *next five years*?

☐☒

Does the sewer system have sufficient staff to provide proper OM&R?

☐☒

Has a repair and replacement sinking fund<sup>13</sup> been established for the sewer system?

☐☒

Is the repair & replacement sinking fund sufficient to meet anticipated needs?

☐☒

## Part III: CAPITAL IMPROVEMENTS REVENUES AND RESERVES

Yes

No

Are sewer revenues sufficient to cover all costs of current capital improvements<sup>3</sup> projects?

☐☒

of current capital improvements projects?  
Has a Capital Improvements Reserve Fund<sup>4</sup>  
been established to provide for anticipated  
capital improvement projects?

Yes

No

☐☒

Are projected Capital Improvements Reserve  
Funds sufficient for the *next five years*?

☐☒

Are projected Capital Improvements Reserve  
Funds sufficient for the *next ten years*?

☐☒

Are projected Capital Improvements Reserve  
Funds sufficient for the *next twenty years*?

☐☒

## Part IV: FISCAL SUSTAINABILITY REVIEW

Yes

No

Have you completed a Rate Study<sup>11</sup> within the  
last five years?

☒☐

Do you charge Impact fees<sup>8</sup>?

☒☐

2019 Impact Fee =

\$ 2,590.00 per connection

Yes

No

Have you completed an Impact Fee Study in  
accordance with UCA 11-36a-3 within the last  
five years?

☒☐

Do you maintain a Plan of  
Operations<sup>10</sup>?

☒☐

Have you updated your Capital Facility Plan<sup>2</sup>  
within the last five years?

☒☐

within the last five years.

Yes

No

Yes

No

Do you use an Asset Management<sup>1</sup> system for your sewer systems?

☒☐

Describe the Asset Management System (check all that apply)

- ☒ **Spreadsheet**
- ☒ **GIS**
- ☒ **Accounting Software**
- ☒ **Specialized Software**
- ☐ **Other**

Yes

No

Do you know the total replacement cost of your sewer system capital assets?

☐☒

Yes

No

Do you fund sewer system capital improvements annually with sewer revenues at 2% or more of the total replacement cost?

☐☒

What is the sewer/treatment system annual asset renewal<sup>\*</sup> cost as a percentage of its total replacement cost?

☒☐

What is the sewer/treatment system annual asset renewal\* cost as a percentage of its total replacement cost?

4.76

Part V: PROJECTED CAPITAL INVESTMENT COSTS

Cost of projected capital improvements

	Cost  Please enter a valid numerical value	Purpose of Improvements		
		Replace/Restore	New Technology	Increase Capacity
2020	1,327,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2020 thru 2024	7,342,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2025 thru 2029	7,188,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2030 thru 2034	22,000,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2035 thru 2039	24,000,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This is the end of the Financial questions

To the best of my knowledge, the Financial section is completed and accurate.

☒ Yes

Collections System Section

Form completed by:  
May Receive Continuing Education /units (CEUs)

## Part I: SYSTEM DESCRIPTION

What is the largest diameter pipe in the collection system (diameter in inches)?

36

What is the average depth of the collection system (in feet)?

8

What is the total length of sewer pipe in the system (length in miles)?

90

How many lift/pump stations are in the collection system?

One public lift station and six private lift stations

What is the largest capacity lift/pump station in the collection system (design capacity in gallons per minute)?

600

Do seasonal daily peak flows exceed the average peak daily flow by 100 percent or more?

☐ Yes

☒ No

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

1938

In what year was the largest diameter sewer pipe in the collection system constructed, replaced or renewed? (If more than one, cite the oldest)

2019

## PART II: DISCHARGES

How many days last year was there a sewage bypass, overflow or basement flooding in the system due to rain or snowmelt?

0

How many days last year was there a sewage bypass, overflow or basement flooding due to equipment failure (except plugged laterals)?

0

*The Utah Sewer Management Program defines two classes of sanitary sewer overflows (SSOs):*

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

- (a) affects 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

**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.

Below include the number of SSOs that occurred in year: 2019

Number

Number of Class 1 SSOs in Calendar  
year

0

Number of Class 2 SSOs in Calendar  
year

1

Please indicate what caused the SSO(s) in the previous question.

The sanitary sewer mains had obstructions such as tree roots.

Please specify whether the SSOs were caused by contract or tributary community, etc.

N/A

### Part III: NEW DEVELOPMENT

Did an industry or other development enter the community or expand production in the past two years, such that flow or wastewater loadings to the sewerage system increased by 10% or more?

☐ Yes

☒ No

Are new developments (industrial, commercial, or residential) anticipated in the next 2 - 3 years that will increase flow or BOD5 loadings to the

sewerage system by 25% or more?

☐ Yes

☒ No

Number of new commercial/industrial connections in the last year

19

Number of new residential sewer connections added in the last year

151

Equivalent residential connections<sup>7</sup> served

5,953

## Part IV: OPERATOR CERTIFICATION

How many collection system operators do you employ?


6

Approximate population served

20,580

*State of Utah Administrative Rules requires all public system operators considered to be in Direct Responsible Charge (DRC) to be appropriately certified at least at the Facility's Grade.*

List the designated Chief Operator/DRC for the Collection System below:

	Name First and Last Name	Grade	Email Please enter full email address
Chief Operator/DRC	Jeff Hiatt	II 	Jeffh@payson.org

List all other Collection System operators with DRC responsibilities in the field, by certification grade, separate names by commas:

	Name separate by comma
SLS <sup>17</sup> Grade I:	None
Collection Grade I:	None
Collection Grade II:	Jeff Hiatt
Collection Grade III:	None
Collection Grade IV:	None

List all other Collection System operators by certification grade, separate names by commas:

	Name separate by comma
SLS <sup>17</sup> Grade I:	None
Collection Grade I:	Rick Gout
Collection Grade II:	Jeff Hiatt, Kyle Anderson, Phillip Lundel
Collection Grade III:	None
Collection Grade IV:	None
No Current Collection Certification:	None

Is/are your collection DRC operator(s) currently certified at the appropriate grade for this facility?

☐ Yes

☒ No

## Part V: FACILITY MAINTENANCE

Yes

No

Have you implemented a preventative maintenance program for your collection system?



Have you updated the collection system operations and maintenance manual within the past 5 years?



Do you have a written emergency response plan for sewer systems?



Do you have a written safety plan for sewer systems?



Is the entire collections system TV inspected at least every 5 years?



Is at least 85% of the collections system mapped in GIS?



## Part VI: SSMP EVALUATION

Yes

No

Has your system completed a Sewer System Management Plan (SSMP)?



Has the SSMP been adopted by the permittee's governing body at a public meeting?



Has the completed SSMP been public noticed?

☒ Yes

☐ No

During the annual assessment of the SSMP, were any adjustments needed based on the performance of the plan?

☐

☒

Date of Public Notice

03/14/2014

During 2019, was any part of the SSMP audited as part of the five year audit?

☒ Yes

☐ No

If yes, what part of the SSMP was audited and were changes made to the SSMP as a result of the audit?

The General Information Section was updated with the names of responsible representatives, their respective positions, and contact information including phone numbers and emails. The GIS mapping information is being updated periodically as new development is constructed. An evaluation of sanitary sewer capacity using SewerGEMS software was completed by a consultant Bowen and Collins.

Have you completed a System Evaluation and Capacity Assurance Plan (SECAP) as defined by the Utah Sewer Management Program?

☒ Yes

☐ No

## Part VII: NARRATIVE EVALUATION

This section should be completed with the system operators.

Describe the physical condition of the sewerage system: (lift stations, etc. included)

According to the sanitary sewer hydraulic model completed by Bowen and Collins, approximately 95% of the sewer system is operating at a peak flow/ capacity ratio of 50% or less. The proposed budget for the upcoming five years includes construction projects intended to upsize the 5% of the sanitary system operating above the 50% peak flow/ capacity ratio. The sanitary sewer system is in average condition but aging. There are areas that may need to be replaced or slip lined in order to reduce and eventually eliminate the infiltration of groundwater.

What sewerage system capital improvements<sup>3</sup> does the utility need to implement in the next 10 years?

2020 = Interstate 15, 400 north to Utah Avenue pipe upgrades. 2021 = Lift Station 1 Pressure Force Main and Gravity Line. 2025 = Lift Station 3 Pressure Force Main and Gravity Line. 2025 = Lift Station 4 Pressure Force Main and Gravity Line.

What sewerage system problems, other than plugging, have you had over the last year?

Roots in sanitary sewer mains, and pipe failure due to H2S gases.

Is your utility currently preparing or updating its capital facilities plan<sup>2</sup>?

☒ Yes

☐ No

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

☒ 100% Covered

☐ Partially cover

☐ Does not pay

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

☒ Yes

☐ No

Any additional comments?

Payson City has hired Bowen and Collins Engineering to update the Sanitary Sewer Master Plan, prepare a Capital Improvement Project schedule and consequently update the impact fees for new development. The Master Plan has been completed and it is ready for review and action by the Payson City Council.

This is the end of the Collections System questions

To the best of my knowledge, the Collections System section is completed and accurate.

☒ Yes

### *Mechanical Plant Section*

Form completed by:

May Receive Continuing Education /units (CEUs)

Nestor Gallo, P.E.

## Part I: INFLUENT INFORMATION

Please provide the average influent flow rate and

Please provide the average influent flow rate and average influent BOD<sub>5</sub> and TSS loading rates listed below for your facility.

	Average Daily Flow (MGD)	Average Daily BOD <sub>5</sub> Load (lb/day)	Average Daily TSS Load (lb/day)
Design Basis or Rated Capacity	3.0	4,400	4,400
2019 Average	1.71	2,560	1,074

## Part II: EFFLUENT INFORMATION

How many Notices of Violation (NOVs) did you receive for this facility in the review year?

0

How many days in the past year was there a bypass or overflow of wastewater at the facility due to high flows?

0

## Part III: FACILITY AGE

In what year were the following process units constructed, upgraded or renewed?

Note: If a unit process does not apply to your system enter the Evaluation Year under Construction or Upgrade Year.

	Evaluation Year	Construction or Upgrade Year	Age
Headworks	2019	2001	18
Primary Treatment	2019	1984	35
Secondary Treatment	2019	2001	18

Tertiary Treatment	2019	2001 Construction or	18
	Evaluation Year	Upgrade Year	Age
Solids Handling	2019	2001	18
Disinfection	2019	2001	18
Land Application/Disposal	2019	2001	18

## PART IV: DISCHARGES

How many days in the last year was there a bypass or overflow of wastewater at the facility due to equipment failure?

0

## PART V: BIOSOLIDS HANDLING

Biosolids Disposal (check all that apply)

	Yes	No
Landfill	<input checked="" type="radio"/>	<input type="radio"/>
Land Application	<input type="radio"/>	<input checked="" type="radio"/>
Give Away/Other Distribution	<input type="radio"/>	<input checked="" type="radio"/>

## Part VI: NEW DEVELOPMENT

Number of new commercial/industrial connections in the last year

19

Number of new residential sewer connections added in the last year

153

Equivalent residential connections<sup>7</sup> served

5,955


Part VII: OPERATOR CERTIFICATION

How many treatment system operators do you employ?

7

*State of Utah Administrative Rules requires all public system operators considered to be in Direct Responsible Charge (DRC) to be appropriately certified at least at the Facility's Grade.*

List the designated Chief Operator/DRC for the Wastewater Treatment System below:

	Name	Grade	Email
	First and Last Name		Please enter full email address
Chief Operator/DRC	Jeff Hiatt	IV 	jeffh@payson.org

List all other Wastewater Treatment System operators with DRC responsibilities in the field, by certification grade, separate names by commas:

Name

	<div>separate by comma</div> <div>Name</div>
SLS <sup>17</sup> Grade I:	<div>separate by comma</div> <div>None</div>
Treatment Grade I:	<div>None</div>
Treatment Grade II:	<div>None</div>
Treatment Grade III:	<div>None</div>
Treatment Grade IV:	<div>Jeff Hiatt</div>

List all other Wastewater Treatment System operators by certification grade, separate names by commas:

	<div>Name</div> <div>separate by comma</div>
SLS <sup>17</sup> Grade I:	<div>None</div>
Treatment Grade I:	<div>None</div>
Treatment Grade II:	<div>None</div>
Treatment Grade III:	<div>None</div>
Treatment Grade IV:	<div>Jeff Hiatt, Tyler Lowe</div>

Is/are your DRC operator(s) currently certified at the appropriate grade for this facility?

☒ **Yes**

☐ No

### Part VIII: FACILITY MAINTENANCE

	Yes	No
Have you implemented a written preventative maintenance program for your treatment system?	<input checked="" type="radio"/>	<input type="radio"/>
Have you updated the treatment system		

Have you updated the treatment system operations and maintenance manual within the past 5 years?

Yes  
☒

No  
☐

Identify the types of treatment equipment and processes installed at your facility.

Yes

No

Screens

☒

☐

Grit Removal

☒

☐

Primary Clarifiers

☒

☐

Imhoff Tanks

☒

☐

Fixed Film Reactor

☒

☐

Activated Sludge

☒

☐

Aerobic Suspend Growth Variations

☒

☐

Anaerobic Suspended Growth variations

☐

☒

Physical-chemical systems for organic removal w/o secondary treatment

☐

☒

Physical-chemical systems for organic removal following secondary treatment

☐

☒

Membrane Filtration

☐

☒

Suspended-growth Nitrification and Denitrification

☒

☐

Air Stripping

☐

☒

Phosphorus Removal - Chemical

☐

☒

Phosphorus Removal - Biological

☐

☒

Ion Exchange

☐

☒

Reverse

☐

☒

Osmosis

Yes

No

Media Filtration



Dissolved Air Flotation



Micro Screens



Chlorine Disinfection



UV Disinfection



Effluent use/Reuse

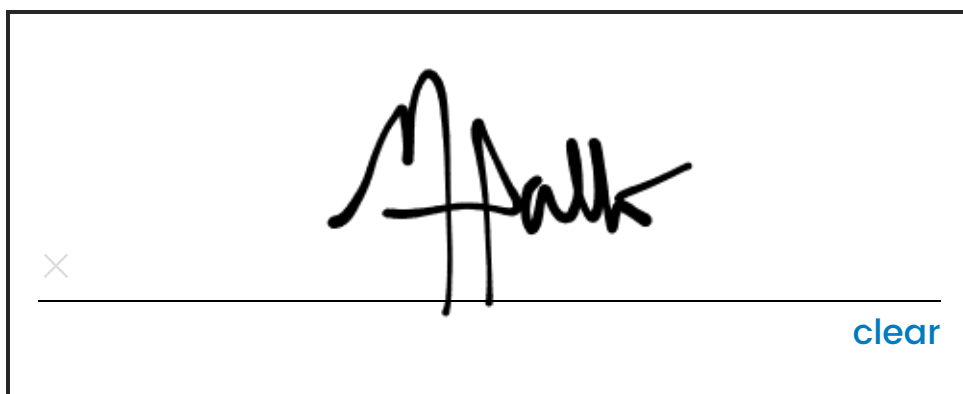


This is the end of the Mechanical Plant questions

To the best of my knowledge, the Mechanical Plant section is completed and accurate.

☒ Yes

I have reviewed this report and to the best of my knowledge the information provided in this report is correct.



Has this been adopted by the council? If no, what date will it be presented to the council?

☐ Yes

☒ No

What date will it be presented to the council?

Date format ex. mm/dd/yyyy

04/15/2020

Please log in.

Email

nestorg@payson.org

PIN

....

NOTE: This questionnaire has been compiled for your benefit to assist you in evaluating the technical and financial needs of your wastewater systems. If you received financial assistance from the Water Quality Board, annual submittal of this report is a condition of that assistance. Please answer questions as accurately as possible to give you the best evaluation of your facility. If you need assistance, please send an email to [wqinfodata@utah.gov](mailto:wqinfodata@utah.gov) and we will contact you as soon as possible. You may also visit our [Frequently Asked Questions](#) page.

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