# WELLINGTON CITY WATER CONSERVATION PLAN 2021

Wellington City 150 West Main Street Wellington, UT 84542

September 2021

PREPARED BY: Sunrise Engineering



#### WELLINGTON CITY

#### WATER CONSERVATION PLAN

September 2021

Prepared by:

SUNRISE ENGINEERING, INC. 25 EAST 500 NORTH FILLMORE, UTAH 84631 435.743.6151

#### Project Team Leads:

Mario Gonzalez, PE Project Engineer

Jason Brimhall, EIT



Mario Gonzalez, P.E. Project Engineer



#### Contents

1.0	INTRODUCTION	.3
2.0	SYSTEM PROFILE	.3
2.1	WATER SOURCES	.3
2.2	WATER SUPPLY & USE	.4
3.0	WATER MEASUREMENT	.5
4.0	WATER LOSS CONTROL	.5
5.0	BILLING	.5
6.0	WATER USE	.6
7.0	CURRENT CONSERVATION PRACTICES	.6
8.0	FUTURE CONSERVATION PRACTICES	.7
9.0	IMPLEMENTATION SUMMARY	.8

Appendix A Area Map



#### 1.0 INTRODUCTION

A water conservation plan is essential to successful water system management. The efficient use of water in systems and communities mitigates supply challenges, reduces expensive infrastructure costs, and creates opportunity for sustainable growth. In the State of Utah water conservation plans are required by S.B. 73-10-32 to be updated and submitted to the Utah Division of Water Resources every five years. This water conservation plan has been prepared to address how water conservation programs and practices will play an important role in meeting our future water needs, as well as address the concerns of leaders and citizens of both Wellington City and the State of Utah. The new regional goal for Carbon County set by the state is 267 gpcd, an average reduction of 20% for the region by 2030. However, this goal would be a reduction of 34% for Wellington City which currently has a gpcd of 403. Wellington City's staff and City Council are committed to doing their part to conserve water but setting the state's goal as their own would not be feasible at this time. The city has set their own goal of reducing their gallons per capita per day to 367 gpcd by the year 2030. This goal represents a decrease of 1% each year for the next 9 years.

#### 2.0 SYSTEM PROFILE

Wellington City is located in Carbon County approximately five miles southeast of Price City. The City's 2020 population was approximately 1,620. Based on past census records and projected growth rates Wellington City will see an estimated annual growth rate of 1.6% over the next 20 years. Providing water to meet the needs of its citizens has always been a top priority of city leaders and planners. As a result, a well-maintained and operated water system provides the citizens of Wellington with water when and where needed. Currently, the City's water system provides water to 681 residential, 19 commercial, 2 industrial, and 8 institutional (public) connections.

Category	Connections
Residential	681
Commercial	19
Industrial	2
Institutional	8

#### Table 2.1 Wellington City 2020 Culinary Connections

Wellington City has a secondary water system used for irrigation. Very few of the connections in the city use the culinary water system for irrigation. The City's irrigation system provides water to 785 residential, 20 commercial, and 5 Institutional connections. This water is used for watering lawns and gardens.

Table 2.2	City	Irrigation	Connections
-----------	------	------------	-------------

Category	Connections
Residential	785
Commercial	20
Industrial	0
Institutional	5

#### 2.1 WATER SOURCES

Wellington has pledged 341 acre-feet of Scofield Reservoir Water (Price River Water Users Association Stock) annually to the Price River Water Improvement District for the purpose of meeting the City's demands for culinary water. The city also pledges the remainder of its water stock, 317 acre-feet Scofield Reservoir Water (Price River



Water Users Stock), and 926.3 shares Wellington Canal Stock, for the purpose of supplying pressurized secondary irrigation water to its citizens for outdoor watering.

Potable and secondary water for future residents will come from additional purchases of Scofield Reservoir Water (Price River Water Users Association Stock). The city, as noted above, owns shares of stock in the local canal company and in the Price River Water Users Association as shown below. Water provided under these shares is and will continue to be used for culinary irrigation purposes by the citizens of Wellington, as well as city-owned facilities, parks, and open spaces.

Table	e 1	
City Owned Stock in Lo	ocal Canal Compain	es
<u>Company</u> Price River Water users Assoc.* (Reservoir Storage)	<u>Shares</u> 658.4	<u>Acre-Feet</u> 658.4
Wellington Canal Company*	924.3	308.1

\*Surface Water Rights

The city has agreed to collect one share of Price River Water Users Association Stock for each new residential connection made to its system. Commercial connections are negotiated based on expected water usage.

#### 2.2 WATER SUPPLY & USE

The following graph shows the City's current reliable supply for the next 40 years compared to the amount of water the city will use with its current gpcd and its goal gpcd. As can be seen from the graph if the city reaches the goal of 367 gpcd they will still need more water supply due to growth. However, with the reduction in use, in 2060 they will need approximately 125 ac-ft less per year than their current use. The increase in demand will be met by met by collecting more shares of the Price River Water Users Association Stock.



Figure 2.1 Water Supply and Use

#### 3.0 WATER MEASUREMENT

All the culinary water used by Wellington City currently is purchased wholesale from the Price River Water Improvement District (PRWID). This water enters Wellington's culinary water system through ten master meters. All these meters are currently manual read meters. The city is currently in the process of replacing these meters with modern radio read master meters. The new system will help the city to track water entering the system in real time and much more accurately.

Each culinary connection within the Wellington water system is measured and tracked with a meter. Currently half of the culinary meters have been converted to radio read. The city intends to replace the remainder of them to radio read in the next 3 years. These meters allow the city to keep track of high-water users within the service area.

#### 4.0 WATER LOSS CONTROL

Tracking and preventing water loss is very important to Wellington City. The city uses their system of master meters and culinary service meters to keep track of how much water is being lost through leaks each month. This is done by simply subtracting the water being used through residential meters from the total water coming in through the master meters. There are no unmetered culinary connections in the city making this method reliable in determining when there is a leak. The city also takes a proactive approach every time a leak is located. The city has a maintenance crew that has the responsibility of finding and fixing leaks as quickly as possible.

#### 5.0 BILLING

The Wellington City council performed an updated water rate study and issued a new rate plan for water usage within the city and in the county. These rates took effect on January 1, 2019. The updated fee schedule raised the rate to match the increase adopted by the Price River Water Improvements District, and to account for inflation from the past ten-year period.

The city also charges for secondary water based on size of connection rather than water used. The fee schedule for culinary and secondary water are in Tables 3.1 and 3.2.

Culinary Water Fee Schedule	
Amount of Water	Rate
City Base Rate	\$42.13
County Base Rate	\$47.13
0-10,000 gallons	\$1.84
10,001-20,000	\$2.34
20,001-100,000	\$2.84
100,000 +	\$3.34

#### Table 3.1 City Culinary Water Fee Schedule

#### Table 3.2 City Secondary Water Fee Schedule

Secondary Water Fee Schedule	
Туре	Rate
1" Connection	\$17.00
1 1/2" Connection	\$22.00
2" Connection	\$31.50



#### 6.0 WATER USE

As of 2020 Wellington City's water usage was 131 gpcd for culinary and 403 gpcd total. It should be noted that the cities culinary water use is lower per capita than average. Below are charts and graphs showing current water usage and gpcd for Wellington City including both culinary and secondary water usage. Wellington City recognizes that their secondary use is high, but that after the spike in 2018 the secondary use has lowered considerably. Since the secondary use is currently on the high end Wellington City will focus on conservation methods that will reduce their irrigation usage.

	Culinary	Secondary	Total
Residential	52	265	316
Commercial	6	33	39
Industrial	2	0	2
Instituitional	13	33	46
Total	72	331	403

Table 4.1 Current GPCD by Use



#### Figure 4.1 GPCD Water Efficiency Progress

#### 7.0 CURRENT CONSERVATION PRACTICES

Water conservation has always been very important to the Wellington city council and our residents. Wellington currently have a varied conservation program that helps manage water resources and reduce water shortages. Some of the practices that they have implemented are public outreach, watering schedule, and conservation rebates. The city has seen progress toward our conservation goals over the last few years and hope to see even more in the future.

#### PUBLIC EDUCATION AND OUTREACH

A major factor in conserving water within a community is to educate residents about the ongoing water issues. Wellington City, through its website and Facebook page provides links and suggestions for water conservation to their followers. Wellington City's website and Facebook page includes a link to the state water conservation site and their suggestions for educational programs regarding water supply. Including the projected availability of water in the coming season, and the use of xeriscape and water wise plants for water users.



Once a year, in the early spring, a newsletter is sent to each resident with their water bill to encourage wise use of water. Wellington City promotes ideas of conservation and informs the public of techniques and ideas that are easy and can effectively be put into practice. For example, sweeping sidewalks and driveways with a broom instead of spraying with a hose, using mulch around trees and shrubs as well as garden areas to retain moisture, and using drip system watering and subsurface soakers in watering systems. Other practices that have been mentioned in past newsletters are water reducing measures such as not letting the water run, full loads of laundry or dishes, and shortening of shower time.

#### SECONDARY WATERING SYSTEM

The community in and around Wellington City has always been heavily agricultural. For most of Wellington's history the irrigation water was dispersed through irrigation ditches and stock watering ponds. These ditches were very susceptible to water loss through seepage and evaporation. To control water loss the ditches were replaced with a secondary watering system consisting of underground piping.

#### WIRELESS METERS

Wellington City is currently in the process of replacing all existing culinary manual read meters with wireless radio read meters. These new meters can detect leaks in real time rather than estimating monthly usage. This allows staff to detect high pressure events, low pressure events, high water use, and direction of water flow before significant water is used or lost and damage to property occurs. The wireless meters can monitor the distribution system giving us accurate, timely water reads and information.

#### PUBLIC PARKS AND RECREATION

Wellington City has always supported green open space for public use. The city has a recreational pond for the public to use and enjoy. It promotes fishing and conservation ideas. The pond promotes water activities, natural wildlife, plants, and outdoor recreation. Signage at the pond supports water conservation and water use.

#### LOW FLOW FIXTURES

Wellington City supports construction standards that recommend low-flow fixtures installed in all new buildings and remodels. Low flow fixtures such as modern toilets, faucets and shower heads can save residence and the city water, energy, and money.

#### 8.0 FUTURE CONSERVATION PRACTICES

#### WATER SCHEDULE

In an effort to conserve water Wellington City has begun to implement a watering schedule for residents to follow during the summer months when water use is highest. The schedule offers each resident a chance to water outside on certain days of the week depending on the house number. The city watering schedule also asks that all residents water outside between the hours of 7:00 p.m. and 6:00 a.m.

#### SECONDARY WATER METERS

Wellington City is currently in the process of applying for grants and assistance to place meters on all residential secondary connections. Currently there are no meters on the secondary system. This effort will give the city the ability to monitor usage, as well as secondary water leaks. The city will also have the ability to further promote water conservation by being able to base secondary water rates on usage rather than connection size.



#### 9.0 IMPLEMENTATION SUMMARY

To ensure the goals outlined above are reached, appropriate tasks must be determined, responsibility fixed with the logical person or department, and a timeline set for completion of each task. The City Recorder and his/her staff will be responsible, under the supervision of the mayor, to review progress made on water conservation and reporting annually the first quarter of each year and making recommendations to the City Council for changes in this plan. This plan will also be updated and resubmitted to the Utah Division of Water Resources in 2026.



## APPENDIX A

### AREA MAP







BLUE DIAMOND (435) 637-4200

Notices

## PUBLIC NOTICE FOR WELLINGTON CITY

**CLICK HER** 

Published: December 15, 2021 1:10 am · Updated: December 8, 2021 1:07 pm · Scottie Draper

Wellington City hereby gives notice under Utah Code Section 11-36a-504 that a public hearing has been scheduled for January 12, 2022, at 5:30 PM to discuss the proposed adoption of the Water Conservation Plan. The public hearing will be held at the Wellington City Hall, 150 W Main, Wellington.

The Division of Water Resources requires that the Water Conservation Plan is updated and adopted by the city every 5 years. The public is invited to attend and provide comments on the proposed adoption of the plan.

In addition to appearing at the public hearing, interested persons may submit written comments regarding the proposed funding application to Gracie Procarione, City Recorder at 150 West Main, Wellington, UT. 84542 or at gprocarione@wellingtonutah.org. Comments must be submitted by January 5th, 2022.

/s/ Gracie Procarione, Wellington City Recorder

Published in the ETV Newspaper December 15 and December 22, 2021.

## WE'LL BUY YOUR CAR, EVEN IF YOU DON'T BUY OURS



#### Wellington City Council Minutes Meeting held August 10, 2022 at the Wellington City Hall Located at 150 West Main Street, Wellington, Utah at 6:00 P.M.

resent:	Mayor Timoth <b>y</b> , Councilmember Perea, Councilmember Wells, Councilmember Zauss, and Councilmember Nelson
Absent:	Councilmember Clark
City Staff:	Gracie Procarione, Rebecca Evans, Tom Kosmack, June Rich, Jonthan Bergthold
Attendees:	Mario Gonzales, Bill Knott, Garth Frandsen, Susan Etzel, Cathy Childs, Melody Gonzales, Shirley Atwood Mike Myers, McKay Quinn

#### Agenda Item #1 Public Comment Period

Melody Gomez came to City Council to learn more about the secondary water up on Hillcrest. She is currently having to use culinary water to keep her plants and garden alive. Secondary water has been off since last week and she would like an official update. June Rich stated that the pump is running 24/7 and the AC unit burned out so the pump on the secondary water pump is going in and out. Ed Ericson mentioned that the building creates a lot of heat because of all the machinery. June stated that the replacement part is in route from St George and should be back up and running next week.

#### Agenda Item #2 Pledge of Allegiance, Roll Call, and Approval of Prior Meeting Minutes

At 6:01 pm Mayor Timothy opened the meeting up with stating that Councilmember Jack Clark was unable to join us Jonight.

**Motion:** Councilmember Zauss made a motion to approve the past meeting minutes. Councilmember Perea seconded the motion and the rest of Council then followed in order.

#### Agenda Item #3 Public Hearing – Sewer Bonds

**Motion:** Councilmember Wells made a motion to go into Public Hearing. Councilmember Perea seconded the motion and the rest of Council then followed in order

This Public Hearing is to go over and talk about the Sewer Bond for the upcoming Sewer Project that will take place in Wellington City. There were no public comments at this public hearing.

<u>Motion:</u> Councilmember Perea made a motion to approve leave Public Hearing with a second from Councilmember Zauss. The rest of Council then followed in order.

#### Agenda Item #4 Public Hearing – Sewer Rate

**Motion:** Councilmember Nelson made a motion to go into Public Hearing. Councilmember Wells seconded the motion and the rest of Council then followed in order

Ed Ericson came to City Council to speak to them about his concern for the Sewer Rate changes. He states that with the amount raising another \$8.00 is hard for him and other families in the area to make happen. He understands that upgrades are necessary, but he thinks that spending from the city recently has been outrageous.

<u>Motion:</u> Councilmember Wells made a motion to approve leave Public Hearing with a second from Councilmember Nelson. The rest of Council then followed in order.

#### Agenda Item #5 Public Hearing – Water Conservation Plan

<u>Motion</u>: Councilmember Perea made a motion to go into Public Hearing. Councilmember Nelson seconded the motion and the rest of Council then followed in order

Mario Gonzales with Sunrise Engineering came to speak to Council about the Water Conservation Plan. He stayed that this needs an approval every five years for the Water Conservancy Board, and that Mario spent countless hours putting this plan together.

<u>Motion:</u> Councilmember Perea made a motion to approve leave Public Hearing with a second from Councilmember Zauss. The rest of Council then followed in order.

#### Agenda Item #6 Resolution 2022-07 Note and Bond Authorization

A Resolution authorizing the maximum of \$5,250,000 sewer revenue bond anticipation notes, and \$5,250,000 sewer revenue bonds, in one or more series, pursuant to a note resolution and a bond resolution to be approved by the Mayor and the City Recorder as the pricing committee, for sewer system improvements, and related matters.

<u>Motion:</u> Councilmember Zauss made a motion to approve Resolution 2022-07 with a second from Councilmember Perea. The rest of Council then followed in order.

#### Agenda Item #7 Resolution 2022-08 Amended Sewer Rate Resolution

A Resolution increasing sewer rates to adequately service the series 2022 Sewer Revenue Bond anticipation note, the series 2022 Sewer Revenue Bond and existing sewer revenue bonds, and related matters.

<u>Motion:</u> Councilmember Nelson made a motion to approve Resolution 2022-08 with a second from Councilmember Zauss. The rest of Council then followed in order.

#### Agenda Item #8 Water Conservation Plan Motion

The Water Conservation Plan needs a motion to be passed for approval, Mario Gonzales spoke more about this situation during the Public Comment Period.

<u>Motion:</u> Councilmember Perea made a motion to approve the Water Conservation Plan with a second from Councilmember Nelson. The rest of Council then followed in order.

#### Agenda Item #9 Shirley Atwood – 550 E 100 S, Water Problem

Shirley Atwood and Mike Myers came to City Council to better explain the situation at hand. Shirley has a water leak somewhere between the meter and her home. The pipe that runs where the water leak is falls under her neighbor's home. Shirley is requesting her meter and all pipelines be moved so that this issue can be solved. She has had to dealt with this situation before and nothing has been done. She is hoping this situation will be different. After further investigation and discussion with City Council, Mayor Timothy is going to reach out to Atwood's neighbor and see if they will allow a snake camera to be up in the line of their property to try and find the exact leak location. City Council also told Shirley Atwood they would keep her in the loop of this situation and if they find any answers as to who is

responsible for the pipe and meter move that they would let her know. Councilmember Nelson suggested to Mr. Meyers to speak with the county as the county are the ones who approved building the house over the line.

Motion:

Jorge Gomez – Business License Approval Agenda Item #10

Jorge Gomez came to City Council to ask for approval of a Business License. His business is a Tile and Repairs Service.

*Motion:* Councilmember Zauss made a motion to approve the business license with a second from Councilmember Well. The rest of Council then followed in order.

#### Agenda Item #11 McKay Quinn - RV Sites

McKay Quinn came to talk to City Council about the dedication of 1 water share per every 8 RV Sites. He showed City Council a Water Code that states the possibility of credit for excising connections. Quinn currently has 100 shares of Wellington Canal Shares. This was tabled until Councilmen Wells can get more info on trade offs between Canal and City Water. McKay Quinn asked to be put on the agenda for the next City Council meeting.

#### **Discuss and Repeal Ordinance 2022-04** Agenda Item #12

Motion: Councilmember Zauss made a motion to approve the repeal of Ordinance 2022-04 with a second from Councilmember Perea. The rest of Council then followed in order.

#### Adjourn

Motion: Councilmember Wells made a motion to close this session of City Council with a second from Councilmember Nelson. The rest of Council then followed in order.

leeting adjourned at 7:38 pm

Next meeting will be August 24, 2022, at 5:30 P.M. at the Wellington City Hall.

Minutes approved on:

Mayor, Brad O. Timothy

ATTEST

City Recorder



3