RESOLUTION NO. 20-01

WATER CONSERVATION PLAN

BE IT HEREBY RESOLVED, by the City Council of Brigham City Corporation, State of Utah, as follows:

WHEREAS, Brigham City Corporation has a Water Conservation Plan (in accordance with U.C.A. 73-10-32) that establishes conservation planning efforts identifying water supply inventory for both present and future water requirements and establishes implementation procedures;

WHEREAS, the City Engineer has reviewed and updated the Water Conservation Plan,

WHEREAS, the City Council has reviewed the City Engineer's recommendations,

WHEREAS, a public hearing was held on January 2, 2020.

NOW THEREFORE BE IT RESOLVED, Brigham City hereby adopts the **Water Conservation Plan**, dated January 2, 2020 for the geographic City boundary. The plan was updated by Brett M. Jones, City Engineer.

PASSED AND ADOPTED by the City Council of Brigham City Corporation, on January 2, 2020.

Tyler M. Vincent, Mayor

ATTEST:

Christina Boss, City Recorder



Brigham City Corporation

Water Conservation Plan



October 2019



Updated By
Brett M. Jones, P.E.
JONES & ASSOCIATES
Consulting Engineers



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SECTION 1 - SYSTEM PROFILE

SERVICE AREA

Brigham City occupies approximately 15,560 acres. Of this area approximately 2,500 acres is residential, 2,600 acres makes up the mountain hillside portion of the City, 1,800 is agricultural, 400 acres is commercial, 250 acres is industrial, and the remaining 8,010 acres is made up of wetlands and undeveloped areas (See Map 1). Streets and hard surfaced areas have not been subtracted out of the totals.

Brigham City currently provides culinary water to approximately 19,500 residents through 6,216 connections. This water is intended for residential, sanitary, commercial, industrial, and institutional uses.

Connection TypeTotalResidential / Domestic5,631Commercial480Institutional98Industrial7Unmetered06,216

Table 1.1 - Number of Connections

SUPPLY

Brigham City obtains its culinary water from nine deep wells and seven springs. The City does not contract with any outside agency for supplemental or secondary water. Water is also sold directly to the Bear River Water Conservancy District. Based on the Brigham City 2009 Culinary Water Capital Facilities Plan (2009 CFP), the total available water supply is over 21,958 acre-feet per year. As can be seen in Table 1.2, only about 64% of the available source is used.

Table 1.2 below shows a breakdown of the current water sources used, as of December 2018.

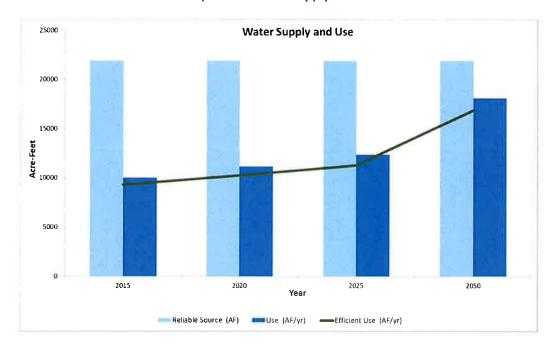
Source Used	Volume (Acre-Feet)	Total (Acre-Feet)
Wells	2,015.4	2,015.4
Springs	12,126	12,126
Sold	(93.6)	(93.6)
		14,047.8

Table 1.2 - Existing Water Sources Used

The City has implemented an Aquifer, Storage and Recovery (ASR) program that consists of taking the excess spring water produced and injecting it back into the wells. This method for conserving water is

extremely effective and saves a sizeable amount of valuable water supply. The 2004 Water Conservation Plan estimated 1,236 acre-feet of water is injected and removed annually. This amount has remained fairly constant since that time. It is estimated that 1,288 acre-feet was injected in 2018.

As illustrated in graph 1.1 below, the City's water supply verses projected use provides a sufficient amount of water through the year 2050.



Graph 1.1 - Water Supply and Use

FUTURE WATER SOURCES & COST PROJECTION

The 2009 CFP indicates that build-out of Brigham City could occur as early as 2047. Subsequent growth rates have proven to be substantially less than the study anticipated, pushing build-out to a significantly later date. The study also indicated that based on appropriated water rights, Brigham City had an annual water supply of 21,958 acre-feet. Since this report was completed, the City has added additional rights and sources to its system. The best usage estimate currently shows a demand of about 19,000 acre-feet per year in 2050. It is anticipated that the City has adequate sources to provide water until that time. The City is also currently planning to build a pressurized irrigation system at some point in the future to reduce usage on the culinary water system. This PI system was last estimated at \$35,000,000.

As noted previously, the City has sufficient water rights and sources to support anticipated growth through 2050. Conservation of these resources will help the supply to last over a longer period of time and/or allow additional water supply for potential industrial users. By delaying or eliminating the need for additional water, the City can save a significant amount of money, as well.

WATER MEASUREMENT & BILLING

<u>Meters:</u> All of the connections to the water system are metered and read using the automated system. This is a fixed-base system that can be read at any time, but in general, meters are read monthly as part of utility billing. Table 1.3 below shows the percentage of the City's metered connections as of December 2018.

Table 1.3 – Metered Connections

Connection Type	Percentage of System	Reading Frequency	Calibration Schedule	Replacement Schedule
Residential	91%	Daily	Per Manufacturer	As Needed
Commercial	8%	Daily	Per Manufacturer	As Needed
Industrial	0.1%	Daily	Per Manufacturer	As Needed
Institutional	1.6%	Daily	Per Manufacturer	As Needed

SYSTEM WATER LOSS CONTROL

Table 1.4 below shows the population, annual use, and percentage loss in relation to used source.

Table 1.4 – Annual Information

Year	Population	Annual Use (AF)	Percentage Loss
2009	18,544	4,633	27.55%
2010	18,900	5,161	10.58%
2011	17,899	6,175	3.10%
2012	17,899	6,790	8.36%
2013	18,120	7,406	10.41%
2014	18,236	5,932	-5.12%
2015	18,800	5,740	-11.06%
2016	19,000	5,901	20.87%
2017	19,380	8,858	28.68%
2018	19,500	10,059	28.87%

Water loss is controlled by:

<u>SCADA System</u>: Each storage reservoir is connected to the City's SCADA system that provides continual monitoring of water storage. In the event there are issues with the pressure or levels of water, the City's designated employees are immediately alerted and able to quickly resolve the issue.

Independent Audit: In addition to this, the City conducts an annual audit of the amount of water billed verse the amount of water used. This ensures the water being used is being paid for and usage is accurately being tracked. This audit is in addition to the City's annual fiscal budget audit.

<u>Leak Detection</u>: The City purchased leak detection equipment in 2017. When a leak is suspected, the City investigates further and quickly repairs the identified leak.

<u>City Facility Outdoor Watering:</u> The City makes an effort to be an example and uses outdoor water sparingly. Sprinkler systems for City parks and buildings are on timers and in use only during non-peak temperature hours. Areas are also monitored to ensure efficient use (i.e. ensuring water is not being wasted on hard surfaces). The City also recently replaced its irrigation system in the City-owned golf course to eliminate leaks that were commonly occurring.

<u>New Development:</u> All new developments are required to follow Title 25, Subdivisions, of the City Code. As part of the approval process, the City Engineer checks the available water sources and distribution system to ensure adequacy and responsible use of Brigham's water resource. If a proposed development meets the requirements of the water distribution model and planned water source use, then the development is allowed to proceed through the approval process. During construction of the development, City staff oversees and inspects the water system to ensure the installation meets City Standards.

INCREASING RATE STRUCTURE

The following table outlines the current water rate schedule associated with the City's various connections adopted by Resolution on July 1, 2015.

Table 1.5 - Water Rate Schedule

Connection	\$ Base Rate / Month	Base Allotment	Overage Usage
3/4" service	\$9.68	7,000 gallons	\$1.36 / 1,000 gallons
1" service	\$14.26	10,000 gallons	\$1.36 / 1,000 gallons
1-1/2" service	\$28.52	20,000 gallons	\$1.36 / 1,000 gallons
2" service	\$45.48	32,000 gallons	\$1.36 / 1,000 gallons
3" service	\$84.30	61,000 gallons	\$1.36 / 1,000 gallons
4" service	\$149.14	107,000 gallons	\$1.36 / 1,000 gallons
6" service	\$343.68	241,000 gallons	\$1.36 / 1,000 gallons
8" service	\$570.67	400,000 gallons	\$1.36 / 1,000 gallons
Non-Residential	\$19.36	7,000 gallons	\$1.36/ 1,000 gallons

WATER USE

Table 1.6 below shows the water inflow verse the water outflow for each type of use between 2005 and 2018.

Table 1.6 -Water Use

INFLOW				OUTFLOW				150	F 1 1 1 1	X 1 X 1
Year	Total (AF)	Res	Com	Ind	Inst.	Whole- sale	Other Uses	Un- metered	Total (AF)	% Diff.
2005	4,815	3,110	1,043	336	0	34	26	25	4,574	-5.0
2006	6,309	3,231	1,083	349	0	35	27	26	4,751	-24.7
2007	6,046	3,639	1,220	393	0	40	30	29	5,351	-11.5
2008	5,909	3,240	1,086	350	0	35	27	26	4,764	-19.4
2009	6,395	3,064	1,075	379	0	32	53	30	4,633	-27.6
2010	5,772	3,653	1,100	326	0	30	25	27	5,161	-10.6
2011	6,373	3,645	1,978	480	0	27	30	15	6,175	-3.1
2012	7,410	4,203	1,288	1,219	0	33	29	18	6,790	-8.4
2013	8,266	4,203	1,681	1,456	0	25	24	17	7,406	-10.4
2014	5,643	4,535	401	996	0	0	0	0	5,932	-5.12
2015	5,168	4,312	335	1,093	0	0	0	0	5,740	-11.06
2016	4,882	4,269	488	1,144	1,144	0	0	0	5,901	-20.87
2017	12,421	3,698	1,238	1,359	2,564	0	0	0	8,859	28.68
2018	14,141	3,828	1,324	2,134	2,773	0	0	0	10,059	28.87

*Information obtained from Utah Division of Water Rights Water Records/Use Information

The data reflected above reported to the Division of Water Rights obviously shows discrepancies and large swings in Inflow versus Outflow data. It is believed that this is due to reporting changes in outflow from large industrial users as well as inflow reporting including ASR and spring flows that are not used in the winter for irrigation purposes. One of the goals for the coming years is to reconcile this data to provide a more accurate representation of use for each category.

Based on the data represented, the analysis shows an average loss of 1.42% in the distribution system over a fourteen year period. This number is significantly less than an average loss of 13.29% reported in 2014 and 22.9% reported in 2004. This data represents a significant reduction in the amount of water lost and accounted for in the water system. The goal of the City is to reduce these losses even further as additional improvements are made to the water infrastructure. Some of the improvement over time can be attributed to improvements in the infrastructure as well as improved efficiency with the Aquifer Storage and Recovery (ASR) program. Water unaccounted for generally comes from system leaks, fire hydrant use, and meter errors.

Secondary water is supplied to certain parts of the City through an open ditch irrigation system. This system is supplied with water from Mantua Reservoir and the Pineview Canal. Brigham City Corporation and several small irrigation companies maintain the water rights for the system. Historically, the irrigation companies received water from springs in the Mantua Valley. After the Mantua Reservoir was constructed Brigham City began supplying water to the irrigation companies from the reservoir. Currently, an exchange agreement exists that stipulates the quantity of water required for Brigham City

to deliver from Mantua Reservoir to the irrigation companies. This water is used for outdoor, landscaping and farming needs. This report focuses mainly on conservation of culinary water resources.

As watering landscape with the flood irrigation system becomes less desirable to residential customers in Brigham City, more citizens are watering with the culinary system. As noted previously, Brigham City is investigating the option of using the Mantua Reservoir and Pineview Water sources to construct a pressurized irrigation system that would more efficiently use this resource.

USE - GALLONS PER CAPITA PER DAY

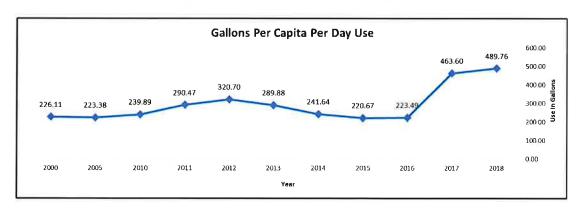
Table 1.7 below outlines the gallons per capita per day in 2018.

Table 1.7 -Water Use

	2018 Total GPCD
Residential	175.27
Commercial	60.61
Institutional	126.94
Industrial	126.94
Total	489.8

Based on Graph 1.2 below, the City has had an increase in daily use of water. This is largely attributed to an increase in large commercial and industrial users.

Graph 1.2 - Gallons Per Capita Per Day Use



SECTION 2 – CONSERVATION PRACTICES

CURRENT CONSERVATION

Brigham City places a high value on the conservation of water and is already practicing the following:

- Water is conserved through Brigham City's Aquifer, Storage and Recovery (ASR) program. This program consists of taking the excess spring water produced and injecting it back into the wells. This method for conserving water is extremely effective and saves a sizable amount of valuable water supply. The 2004 Water Conservation Plan estimated 1,236 acre-feet of water is injected and removed annually. This amount has remained fairly constant since that time. It is estimated that 1,288 acre-feet was injected in 2018.
- The City has automated the watering all of their parks and park strips. This helps the City to avoid over watering these areas. This also allows the City to water these areas at night when watering is most effective.
- The City is budgeting to obtain "Smart Clocks" for all City property which will allow watering to be shut-off remotely during rainstorms or unexpected weather events. In addition to this, upgrades will be made to increase the efficiency of existing City-owned sprinkler systems.
- Brigham City is continuing to investigate the option of using the Mantua Reservoir and Pineview
 Water irrigation sources to construct a pressurized irrigation system that would more efficiently
 use its culinary water resource. Piping projects to the Golf Course, Cemetery, and in newer
 developments have already been completed.
- The City maintains memberships in supporting organizations such as American Water Works
 Association, Water Environment Federation and The Rural Water Association that educate their
 personnel and keep up to date on source protection, public education and current regulations.
- Brigham City has recently completed a project which replaced and updated all of the water
 meters within the City with radio-read meters on a fixed-base network. This allows the City to
 obtain meter readings daily and detect possible leaks on each service as well as obtain accurate
 data for the water budget. Commercial meters have also been replaced as deemed necessary.
- The current water pricing and billing system was updated and adopted by resolution on July 1, 2015. The new pricing and billing is adequate to cover expenses in the water enterprise account and is tiered so as to discourage excessive water use. Brigham City may consider additional water pricing and billing system updates as needed.
- The City continues to complete infrastructure projects identified in the Capital Improvement Plan.

CONTACT

Mayor, Tyler Vincent & All Members of the City Council 20 North Main PO BOX 1005 Brigham City, UT 84302 tvincent@bcutah.org

Water Supervisor, Rene Cedillo 20 North Main PO BOX 1005 Brigham City, UT 84302 rcedillo@bcutah.org

Public Works Director, Tyler Pugsley 980 West Forest Street PO BOX 1005 Brigham City, UT 84302 tpugsley@bcutah.org

EVALUATION OF EXISTING CONSERVATION EFFORTS

In the 2014 Water Conservation Plan, the City established four goals based upon the issues identified by the Utility Advisory Board. The goals and status of each are provided below:

Goal 1 - Reduce the City's Per Capita Water Use Rate By 7.7% by 2019: The water use rate is currently 283 gallons per capita per day (gcpd). The goal is to bring this down approximately 7.7% to 260 gcpd. The savings will be measured in acre-feet and will be analyzed every five years by using the data that is submitted to the Division of Water Rights.

Status: The average gcpd over the past 5 years is 327.83. This number; however, includes the addition of large commercial and industrial users during 2016, 2017, and 2018. At the time this goal was written, these large users were not anticipated. If these users are removed from the gcpd calculation, the average is 260 and is in line with the original projection.

Goal 2 – Maintain a Financially Viable Water System: The water pricing system should encourage customers to reduce their usage without creating a revenue shortfall. Water rates will be evaluated periodically and adjusted as necessary.

Status: This is an ongoing goal. The rate structure was updated July 2015.

Goal 3 – Infrastructure Upgrades and Replacement: During the next five year period complete projects identified in the City's Capital Improvement Plan. This goal will help ensure that older infrastructure is replaced with newer improvements and thus help reduce lost and unaccounted for water.

Status: The City continues to complete projects identified in the Capital Improvement Plan.

Various water projects have been completed over the last 5 years. These projects include placing the Cemetery and Golf Course on irrigation water, replacing outdated main and service piping with new piping in various locations throughout the City, and reservoir rehabilitation work.

Goal 4 – Leak Detection and Repair Program: Perform a system audit within the next five years to locate problem areas and suspected worn out meters in the system. Continue to implement a leak detection program throughout the City to discover leaks in the distribution system. The leak detection program would aim to inspect locations with suspected leaky water pipes as well as locations within the City with older infrastructure. Repairs will be on an as-needed basis and as funding permits.

Status: The City has replaced all of the water meters within the City with radio-read meters.

These meters should be in service for 10-15 years and will be calibrated per the manufacturer's recommendations. If a meter is found to be inoperable or faulty, it is replaced. The meters are connected to a fixed-based system, allowing the City to continually monitor flows. If a leak is suspected, employees are able to use the leak detection equipment to listen and locate the leak and repair it in a timely manner. This helps to reduce the amount of water lost due to a leak.

NEW BEST MANAGEMENT PRACTICIES & IMPLEMENTATION PLAN

Goal 1 - Reduce the City's Per Capita Water Use Rate By 5% by 2024: The water use rate is currently 328 gallons per capita per day (gcpd). The goal is to bring this down approximately 5% to 312 gcpd. The savings will be measured in acre-feet and will be analyzed every five years by using the data that is submitted to the Division of Water Rights. This goal will be implemented by:

- Placing Utah State University's Brigham City campus site on a metered connection as part of a new pressure irrigation system to service the property. This site is approximately 27 acres and will provide a substantial reduction in the amount of culinary water used for irrigation. Metering the connection will reduce consumption, as well.
- The Brigham City Eagle Mountain Golf Course, approximately 150 acres, will be placed on a metered connection to a new pressure irrigation system with water-efficient sprinkler heads.
- 3. The implementation of Goals 2, 3, and 4 below will also aid in the reduction of water use.

Goal 2 – Increase Reporting Accuracy: Over the past five years, the City has had an increase in large industrial users. Based on the reports submitted to the Division of Water Rights, it is apparent that the use for industrial, institutional, and commercial may not have been reported in the correct usage type. The City has installed newly calibrated source meters in several locations throughout its system. It is believed that the overall amount of water used is correct in recent years, but the amount reported in each category may not be. Over the next five years, the City will work to create a standard for labeling users with the appropriate category. This will provide a more accurate reporting of where water is being used.

Goal 3 – Increase Public Awareness & Education Efforts: Currently, the City only utilizes the City's website to provide information about water conservation. Over the next five years, the City plans to provide bi-annual flyers/information with the monthly utility bill utilizing existing messages from Slow the Flow, DWRs's Conserve Utah, and WaterSense. In addition to this, the City plans to promote the use of weather based smart timers and provide information for how to obtain these tools.

Goal 4 – Weather Based Smart Timers: The City continuously monitors the water used for City landscaping and has each area on a timer to limit the amount of watering. In a precipitation event, City staff must deploy to each location and manually shut off or change the sprinkler program. Within the next five years, the City plans to install Smart Timers on all City sprinkler systems. These timers will allow staff to shut off or change watering from any location at any time of the day to more efficiently use water.

PUBLIC INFORMATION, EDUCATION, & PROGRAMS

The City currently provides regular information to residents and educates them on wise watering practices through the City's website: https://www.bcutah.org/water-conservation.htm.

CITY ORDINANCES & STANDARDS IN PLACE

The following ordinances and standards have been adopted and are currently in place:

- Water Management Plan, 2014
- Public Work Standards for Development, Design, & Construction were updated and adopted in June 2019
 - Incorporates the Manual of Standard Plans, published by Utah LTAP Center, Utah State University (commonly known as APWA)
 - Includes information for Low Impact Developments (using rain water, collecting rain water, etc.)

Advertising Receipt Ad 22768

Box Elder News Journal

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NOTICE OF PUBLIC HEARING
BRIGHAM CITY COUNCIL
PUBLIC NOTICE IS HEREBY
GIVEN THAT THE BRIGHAM CITY
COUNCIL WILL HOLD A PUBLIC
HEARING ON JANUARY 2, 2020
AT 7:00 P.M. TO RECEIVE PUBLIC
COMMENT REGARDING ADOPTION OF THE UPDATED WATER
CONSERVATION PLAN.

THE PUBLIC HEARING WILL BE HELD AT 20 NORTH MAIN, BRIGHAM CITY, UTAH. ALL IN-TERESTED PARTIES ARE INVITED TO ATTEND.

Publication	First Date	Last Date	Days	Cost
Box Elder News Journal	12/24/19	12/24/19	1	\$13.75
Box Elder Shopper	12/24/19	12/24/19	1	\$0.00

Total Days: 1

Total Cost: \$13.75

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BOX ELDER NEWS JOURNAL PROOF OF PUBLICATION

State of Utah Box Elder County

> NOTICE OF PUBLIC HEARING BRIGHAM CITY COUNCIL

PUBLIC NOTICE IS HEREBY GIVEN THAT THE BRIGHAM CITY COUNCIL WILL HOLD A PUBLIC HEARING ON JANUARY 2, 2020 AT 7:00 P.M. TO RECEIVE PUBLIC COMMENT REGARDING ADOPTION OF THE UPDATED WATER CONSERVATION PLAN.

THE PUBLIC HEARING WILL BE HELD AT 20 NORTH MAIN, BRIGHAM CITY, UTAH. ALL INTERESTED PARTIES ARE INVITED TO ATTEND.

December-24

I, Casey Claybaugh, being first duly sworn depose and say that I am the Publisher of the Box Elder News Journal, a newspaper of general circulation, published every Wednesday in Brigham City, Utah, County of Box Elder; that the notice

> NOTICE OF PUBLIC HEARING BRIGHAM CITY COUNCIL

of which a copy is hereto attached, was published in said newspaper, the first publication having been made on the 24th day of December 2019, and the last on the 24th day of December 2019; that said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in the supplement.

Same was also published online at utahlegals.com, according to Section 45-1-101, Utah Code Annotated beginning on the first date of publication and for 30 days thereafter.

Casey Claybaugh, Publisher

Subscribed and sworn before me this 24th day of December 2019.

Sean Michael Hales, Notary Public

Residence: Brigham City, Utah

My commission expires August 29, 2022



REGULAR SESSION OF THE BRIGHAM CITY COUNCIL January 2, 2020

PRESENT: Tyler Vincent Mayor

Alden Farr Councilmember
Joe Olson Councilmember
Tom Peterson Councilmember
Robin Troxell Councilmember

ALSO PRESENT: Joseph Bach Fire Chief

Christina Boss
City Recorder
Mike Christiansen
City Attorney
Mike Nelsen
Police Chief
Derek Oyler
Tyler Pugsley
Public Works Director
Jason Roberts
City Administrator

Kristy Wolford Community Activities & Services Director

EXCUSED: DJ Bott Councilmember

Mayor Vincent called the meeting to order. The Reverence Period was given by Bishop Funk. The Pledge of Allegiance was recited.

Approval of Minutes: A motion to approve the minutes of the December 19, 2019 Council meeting was made by Councilmember Peterson, seconded by Councilmember Farr and unanimously approved as distributed.

AGENDA

ELECTION OF MAYOR PRO TEMPORE RECOGNITION OF EMPLOYEES

New Hire, Community Activities & Services

PUBLIC HEARING

Consideration of Resolution to Update Water Conservation Plan

PUBLIC COMMENT

COUNCILMEMBER COMMENTS

ACTION ITEMS

Consideration of Amendments to Title 24, Streets and Sidewalks, Chapters 24.05, Storm Drain Utility and 24.06, Storm Drainage; Adding Chapters 24.07, Storm Water Permits and 24.08 Long-Term Storm Water Management

ADJOURN TO CLOSED SESSION TO DISCUSS THE PURCHASE, EXCHANGE OR LEASE OF REAL PROPERTY AND PENDING OR REASONABLY IMMINENT LITIGATION

ELECTION OF MAYOR PRO TEMPORE

MOTION: A motion to appoint Councilmember Bott as Mayor Pro Tem, was made by Councilmember Farr, seconded by Councilmember Olson and carried unanimously.

RECOGNITION OF EMPLOYEES

Carmen Bach was recently hired as a Culinary Specialist in Community Activities & Services.

PUBLIC HEARING

Consideration of Resolution to Update Water Conservation Plan

Mr. Pugsley approached the podium and stated that the Utah Water Conservation Plan Act requires public water systems to submit a Water Conservation Plan every five years primarily to set goals to improve water conservation efforts.

The City met the previous five-year period goals which were to reduce the per capita water usage by 7.7%, maintain a financially viable water system, infrastructure upgrades and replacement, and leak detection. Mr. Pugsley noted that the industrial users and commercial growth over the past five years was not anticipated and if those users were removed from the per capita calculation, the goal would have been met.

The current five-year period goals are to reduce the City's per capita usage rate by 5%, put users in the appropriate category for increased reporting accuracy, increase public education to include water wise information in utility billings on a bi-annual basis and obtain weather based smart timers on irrigation infrastructure for parks and City green space.

Mr. Pugsley explained that the State has already reviewed and approved the Plan.

MOTION: A motion to open the Public Hearing was made by Councilmember Farr, seconded and carried unanimously.

<u>Juliana Larsen</u> – Ms. Larsen came forward and asked where irrigation water will come from and if the weather based smart timers will be installed everywhere.

<u>DeAnna Hardy</u> – Ms. Hardy approached the podium and asked why the State is bringing in new industry if they are concerned about water conservation.

MOTION: A motion to close the Public Hearing was made by Councilmember Farr, seconded by Councilmember Peterson and carried unanimously.

Councilmember Peterson asked if there is a main water line that is metered to aide in assisting with leak detection. Mr. Pugsley explained that the only main line meter is at the collection point of the Mantua sources. The City could look at an independent company that has the ability to detect leaks with a listening device called a correlator. The correlator pinpoints continuous noise for a 24-hour period.

Councilmember Farr inquired about devices that measure the amount of water content in lawns. Mr. Pugsley would be open to investigating that technology and pricing to see if it would be beneficial. He stated that all residential meters have real time information to detect leaks on the customer side of the meter.

The Council discussed how smart timers would assist in preventing watering during rainy periods at parks and park strips which would benefit the culinary water system. Mr. Pugsley stated that the Golf Course currently has this capability.

Mr. Pugsley addressed Ms. Larsen's concern stating that the irrigation water comes from Mantua Reservoir. Brigham City also owns shares in Pineview for supplements to manage the level of Mantua Reservoir.

Councilmember Troxell asked for an explanation of how the City would reduce the water usage per capita and the effect of the industrial users. Mr. Pugsley explained that Brigham City is working with the Utah Division of Water Rights to identify all of the users. With industry and projected growth, Brigham City has enough culinary water through the year 2050. The City also has irrigation rights through Box Elder Creek and Perry Irrigation. If industrial users were taken out of the equation, the same restrictions exist because

we would still have the same water conservation efforts and restrictions which are dictated by the State. Mr. Pugsley is working with the State in the annual water audit so that the industrial, commercial, residential and institutional customers will be split out. This will give an accurate per capita number with separate goals for each category. Councilmember Olson reiterated that this effort is about public education on smart water usage.

MOTION: A motion to approve the Resolution updating the Water Conservation Plan was made by Councilmember Peterson, seconded by Councilmember Olson and carried unanimously.

Roll Call:

Councilmember Farr – aye Councilmember Olson – aye Councilmember Peterson – aye Councilmember Troxell – aye

PUBLIC COMMENTS

<u>DeAnna Hardy</u> – Ms. Hardy came to the podium and welcomed the new Councilmembers. She restated her concerns with incoming industry and water conservation.

COUNCILMEMBER COMMENTS

<u>Councilmember Farr</u> welcomed Councilmembers Troxell and Olson and stated that former Councilmembers Thompson and Jensen will be missed.

Councilmember Olson expressed his appreciation for the warm welcome.

<u>Councilmember Peterson</u> also welcomed the new Councilmembers and looks forward to serving with them.

<u>Councilmember Troxell</u> thanked everyone for the warm reception and she welcomes questions and inquiries from the community.

<u>Mayor Vincent</u> stated that he is grateful for the new Councilmembers and for returning Councilmember Farr. He said that City Staff are looking at goals and getting things ready to go for 2020. Mayor Vincent expressed how fortunate the community is to have the services that the City offers. Previous Mayor Eskelsen had the foresight and vision to plan for the City's future in buying Mantua Reservoir and the water rights coming out of the canyon. Mayor Vincent also stated that the City has great employees who are very dedicated and help to provide the services to the community.

ACTION ITEMS

<u>Consideration of Amendments to Title 24, Streets and Sidewalks, Chapters 24.05, Storm Drain Utility and 24.06, Storm Drainage; Adding Chapters 24.07, Storm Water Permits and 24.08 Long-Term Storm Water Management</u>

Mr. Pugsley came to the podium and explained that in order to maintain compliance with the Municipal Separate Sewer Storm Systems (MS-4) designation, the proposed updates and changes to the Ordinance are suggested:

- Define prohibited discharges
- Add requirements for long-term storm water management
- Define City authority to correct issues involving private storm water infrastructure with the ability to recoup costs
- Define enforcement procedures
- Add Chapter 24.07 which includes a Storm Water Permit for Construction Activity for land disturbances over 5,000 square feet which will aide City Staff in tracking projects that could

potentially contaminate storm water runoff, and a Storm Water Connection Permit for storm water system connection requests

• Add chapter 24.08 Long-Term Storm Water Management

Mr. Pugsley stated that there are no fees for the permits at this time.

MOTION: A motion to approve the Ordinance amending Title 24, Streets and Sidewalks, Chapters 24.05, Storm Drain Utility and 24.06, Storm Drainage; Adding Chapters 24.07, Storm Water Permits and 24.08 Long-Term Storm Water Management was made by Councilmember Farr and seconded by Councilmember Peterson.

Roll Call:

Councilmember Troxell – aye Councilmember Peterson – aye Councilmember Olson – aye Councilmember Farr – aye

ADJOURN TO CLOSED SESSION

A motion to adjourn to a closed session to discuss the purchase, exchange or lease of real property and pending or reasonably imminent litigation was made by Councilmember Peterson and seconded by Councilmember Farr. A roll call vote was taken with all Councilmembers voting aye. The meeting adjourned to a closed session at 7:41 p.m.

The Council returned to an open meeting at 10:16 pm and adjourned.

The undersigned duly appointed Recorder for Brigham City Corporation hereby certifies that the foregoing is a true, accurate and complete record of the January 2, 2020 City Council Meeting.

Dated this 21st day of January, 2020.

Christina Boss
Christina Boss. Recorder