

TAYLOR WEST WEBER WATER
IMPROVEMENT DISTRICT

WATER
MANAGEMENT
AND
CONSERVATION
PLAN

A. BACKGROUND INFORMATION

The Weber County Commission gave final approval for the organization of the Taylor West Weber Water Improvement District in July 1965 to provide culinary water service to the areas of Taylor, West Weber, Hooper and what is currently know known as West Haven it was in full operation by January 1967.

The District currently contains approximately 12,392 acres and currently has 2,282 connections to the system, most of which are residential.

It is the goal of the Board of Trustees and the employees of the District to provide and maintain safe, quality drinking water to the customers of the District.

B. WATER SYSTEM PROFILE

The current estimated population of the District is 7,791. It is estimated that an additional 27,763 people will live within the Taylor West Weber Water Improvement District at build-out, making a total projected population of 35,809. (This information was taken from the District's current capital facilities plan).

Annual Water Supply & Purchases

There are currently three culinary water wells which supply water to the system. Two wells are located at 2815 West 3300 South in West Haven, Utah. Well #1 is the primary well for the system which can provide approximately 1,200 gpm to the system. Well #2 is the secondary well for the system and can currently provide approximately 900 gpm to the system. The third well is located at 900 South 4300 West and has the capability of supplying approximately 1,200 gpm to the system.

The District also has two connections with Weber Basin that is used as needed to keep the pressure up during peak usages and for emergency purposes. The first one is located at 3500 West 4000 South, West Haven, Utah and the second at 3300 South 4700 West, West Haven, Utah.

Source Name	Right #	Total Culinary (per acf.)
Well #1 900 South well (ws004)	*35-1613	788.45-acf.
Well #2 Big well (ws001)	*35-11723	4705 acf.-6.5csf.
Well #3 (ws005) Shop well	*35-12604	72.00-acf.municipal right

***All wells are connected to the water rights collectively and can be used at any time with the same rights.**

Purchase	Sources(ws003)
Wholesale connections at 4700W 3300S and 4000S 3500W	
606 af @ 192.17	Weber Basin
31.95 af @ 80.00	Weber Basin

There are currently four storage tanks serving the culinary water system. Tank # 1 and 2 are located at the approximate address of 3600 South Midland Drive in West Haven, Utah. Tank #1 stores 1,000,000 gallons of water. Tank #2 stores 3,000,000 gallons of water. Tank #3 is located at the approximate address of 2150 South 3500 West in Taylor, Utah and stores 250,000 gallons of water. Tank #4 is located at the approximate address of 4300 West 900 South in West Weber, Utah and stores 2,000,000 gallons of water.

Connections and Use

	#Connections	% of connections	Use(gal/pd)	%of water use
Residential	2,226	98%	326,412,000	90%
Commercial	7	less than1%	1,698,000	.00047%
Institutional	12	less than1%	8,656,000	.024%
Industrial/agri.	37	1.5%	not cal. In per/capita	.065%
	<u>2,282</u>		<u>316,058,000</u>	
			$316,058,000 \div 365 \div 7,987 = 108 \text{ gpcpd.}$	

Agricultural connections and usage is not calculated in the gpdpc. But for information for total usage the number of (agricultural-industrial) connections is 37 and the total water usage from those agricultural connections is 23,424,000.

Grand Total	2,282	360,190,000(1105acf.)
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Water efficiency progress:(These numbers include residential commercial institutional and agricultural).

Year#	Population#	Gallons per year	Gallons per day per person
2005	5,306	283,490,370	146 gpd per person
2010	6,489	329,435,361	139 gpd per person
2015	6,948	297,176,112	117 gpd per person
2019	7,987	360,190,000	108 gpd per person

At the current trend and with goals to conserve even more water we are predicting to be on pace with the governors 25% by 2025 goal.

Use by type graph

	connections	summer	winter	Total gal.
Residential	2,226	228,323,797	97,853,055	326,176,851
Commercial	7	848,841	848,841	1,697,683
Institutional	12	6,058,222	2,596,380	8,654,602
Industrial/Agricultural	37	18,740,343	4,685,085	23,425,428
Total	2,282	253,971,203	105,983,361	360,190,000

Projected Water Use

Current Use 360,190,000
 30 yr Growth x 80% Includes residential, commercial and institutional
 Projected Growth 648,342,000

Secondary Water Use

% of customers with secondary water access

Residential 70%
 Commercial 50%
 Agricultural/Industrial 100%
 Institutional 40%

Secondary Water Companies

Weber Basin Water (801) 771-1677
 Hooper Irrigation (801) 985-8429
 Wilson Irrigation (801)644-1807 (Vern Holmes)

C. WATER PROBLEMS, CONSERVATION MEASURES AND GOALS

Problems & Goals Identified

1. Adequate water rights for future growth.
 The District is requiring developers to provide water rights for any new development and to provide pressurized secondary water to all new subdivisions greater than two lots.
 The District is always looking to purchase water rights from private individuals.

The Board of Trustees continually review current water rates to encourage water conservation from customers.

The District supports the efforts to bring secondary water service to areas of the District that are not currently served.

The District requires all new construction projects to pay a water right fee of \$4,363.00. The District in turn purchases more water rights from Weber Basin Water.

2. Adequate storage facilities for future growth and pipeline upgrades.
 - a. The District built a 2,000,000 storage tank with booster system to help provide pressure to the north end of the District.
 - b. The District built a new tank 3,000,000 million gallon tank to help provide adequate pressure and supply to the south end of the District .
 - c. Line sizes are increased throughout the District as needed and as outlined in the District's capital facilities plan. The District has upgraded over 41,000 feet of pipe since 2014.

Water Conservation Goals

1. Stay on track of our water usage by reducing water consumption by 6 gal per day per person every five years.
2. Keep public informed of the slow the flow program and website by posting a link on our website as well as posting information with our billing invoices.

D. CURRENT CONSERVATION PRACTICES

Water Conservation by customers of the District

- a. District encourages customers to find alternative water sources for secondary purposes.
- b. Plans for new subdivisions are reviewed and approved by the District and must include secondary water for outside use.
- c. Water rate structure is built to encourage conservation by customer by charging them more for excessive use.

The Board of Trustees and all employees encourage customers to conserve water and is supportive in efforts to bring secondary water to those areas of the District that do not already have secondary water. The District supports the Hooper City, West Haven City, and Weber County with the conservation standards and ordinances they have implemented for best practices in water conservation.

A SCADA system was installed to monitor well and tank levels on a daily basis. Wells are alternated at times to recharge aquifers and to help storage and recovery of such wells.

All customers have new radio read meters that are read monthly and we have a current replacement program of every ten years.

Notice is given to each customer on each month's bill from May to October to remind them not to water between the hours of 10 a.m. to 6 p.m.

Customers who show excessive monthly use are notified so problems with water within the home can be resolved quickly.

E. ENFORCEMENT OF CONSERVATION POLICY

The Board of Directors adopted Resolution 14-10 on October 20, 2014 giving enforcement power to District Manager to be able to police water usage and set fines for customers not following the policy.

F. CURRENT WATER RATES

The current water rate for all connections are as follows:

Base rate \$26.15	0 - 5,000	gallons
1.00 per 1,000	6,000 - 10,000	gallons
1.50 per 1,000	11,000 - 30,000	gallons
1.95 per 1,000	31,000 - 100,000	gallons
2.25 per 1,000	100,000 +	gallons

(This information is from the District's current water rate study and is increased annually perpetuity by the increase in the consumer price index).

The water rates are adjusted on an annual basis to keep revenue rates at a steady pace and to allow for upgrades in the system replacing older pipelines that may leak more frequent.

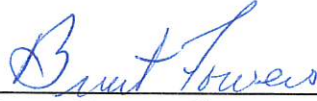
G. IMPLEMENTING AND UPDATE THE WATER CONSERVATION PLAN

Ryan Rogers, Manager of the District has been assigned the responsibility of implementing and monitoring the Water Conservation Plan.

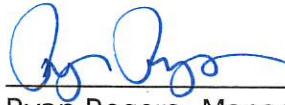
The Board of Trustees will review this plan on an annual basis and update it as necessary.

CERTIFICATION OF ADOPTION

Taylor West Weber Water Improvement District hereby certify that the Board of Trustees has updated and adopted the attached Water Management and Conservation Plan on Aug 19, 2019.



Brent Fowers-Chairman



Ryan Rogers- Manager

**TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT
2815 WEST 3300 SOUTH
WEST HAVEN, UTAH 84401**

Board of Trustees meeting – Monday, August 19, 2019 – 4:30 p.m.

AGENDA

1. Opening ceremonies
2. Mark Anderson and Tom Favero
3. Review and approve minutes of previous meeting
4. Public comments
5. Review and approve water conservation plan
6. Engineering RFP
7. Election/appointment
8. New subdivisions
9. Project updates
10. Water system issues
11. Weber Basin Water Conservancy District contracts
12. Secondary water issues

In compliance with the Americans with Disabilities Act, persons needing auxiliary services for this meeting should call Taylor West Weber Water Improvement District at 801-731-1668 at least 24 hours prior to the meeting.

MINUTES
OF
BOARD OF TRUSTEES
TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT
August 19, 2019

Meeting was held at Office Building, 2815 West 3300 South at 4:30 p.m.

Present: Brent Fowers - Chairman
Bren Edwards - Vice Chairman/Financial Chairman
Chad Gibson - Trustee
Brandon Barrow - Trustee
Ryan Rogers - Manager
Clay Penman - Maintenance Manager
Shelley P. Hadley - Sec./Clerk
Duncan Murray
Mark Anderson
Chad & Skyler from B. Hansen Construction
Tom & Tina Favero
Scott Fowers

Opening ceremonies were performed. Chad offered the prayer and Brandon led the pledge of allegiance.

Chad from B. Hansen Construction explained about the project they were doing for UDOT at 2550 South 4700 West on Friday, July 30th and that they hit the District's main. He had a bill for \$8,061.00 for time that his crew was down and for two vac trucks, one that Tom Favero had called. He presented pictures showing a mark that was off by six feet and because of this he said his excavator, Skyler, hit the thrust block and created a leak. Ryan told him the picture he had was Weber Basin's marking and that we have a statement from Wyatt who is with Blackburn & Jones and was present when this happened. Wyatt said his boss, Carson who was also present, told Skyler that the concrete was there for a reason and that it wasn't a good idea to jackhammer through it, but Skyler proceeded to anyway, creating the leak. Skyler admitted to hitting the concrete thrust block.

Tom Favero said he called Weber County dispatch because the irrigation waste water was ready to run over the road and possibly cause damage to homes. He said that UDOT and Clay told him to do whatever he needs to do. Ryan told him that we have a sheriff's report that states they called Kevin with UDOT and he advised them that they would be out on Monday morning to take care of this and to tell Tom to do what he has to do. Tom felt like this couldn't wait so he called a vac truck company and wants the District to pay for it since he said Ryan was the one who told them to fill the pipe with dirt. Ryan told the Board that it was a unanimous decision between Carson, Skyler and himself to leave the dirt there during the weekend so the concrete could dry.

After much discussion, Chad from B. Hansen told the Board that he would drop the charges for his crew if the District would just pay for both of the vac trucks. Mark Anderson told Chad that the correct measure is for them to submit a notice of loss to Utah Local Governments Trust and let them investigate.

Bren made the recommendation that Mark Anderson and Ryan meet with UDOT to discuss this with them also.

Minutes of July 15, 2019 and the financial statements were reviewed and there were no additions or corrections. Chad made the motion to accept and approve them. Bren seconded the motion. Voting was unanimous.

~~The Board reviewed the water conservation plan that had the recommended changes made by the State. Brandon made the motion to approve the plan. Bren seconded the motion. Voting was unanimous.~~

Ryan presented an engineering request for proposal. Chad asked if 5 years of experience would be enough. Bren told him that the Board will be able to look at their scope of projects and be able to tell if 5 years will be enough. The Board would like to change the contract term to a 3 year contract with an option of a negotiable contract up to 7 years. Chad made the motion to make this change but table it until we get the site specific plan from the State and then put it out for proposals the first of January and then give them 30 days to respond since Gardner's contract is up April 2020. Brandon seconded the motion. Voting was unanimous.

Ryan has been talking with Brad Blanch about Terrakee Village located at 900 South 4700 West. He told Brad that he will need to go through Don Barnett about getting the point of diversion changed because Brad wants to give him river rights for the water rights fee. Bren said the County is trying to get an ordinance in place for the secondary water. Bren made the motion that Brad has to show verification that he has the water rights to move into our wells. Chad seconded the motion. Voting was unanimous.

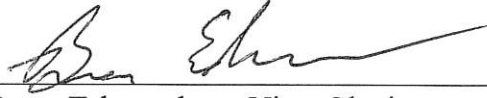
The parking lot at the office has been completed. The tanks on Hinkley Drive have been cleaned and Ryan is going to have this scheduled to be done every other year. He thinks this will improve the quality of the water. He is planning on flushing the dead ends in the District in October or November and a full system flush in the spring.

Bren suggested when preparing the 2020 budget that the Board really looks at hiring an additional maintenance person.

Lee passed away leaving a vacancy on the Board that will need to be filled to complete his term until December 31st. Shelley will put a notice on the customer bills and hang notices at West Haven City and Hooper City for the vacancy opening. Applications will be accepted from September 3rd through September 13th during regular business hours. The Board will then appoint one of the candidates that apply at the next Board meeting in September.

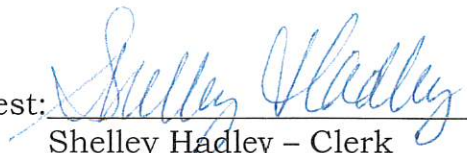
Bren made the motion to adjourn. Brandon seconded the motion. Voting was unanimous. Meeting adjourned at 6:10 p.m.

TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT



Bren Edwards - Vice Chairman

Approved 9-16-19

Attest:  _____
Shelley Hadley - Clerk