

**MINUTES OF A CITY COUNCIL WORK SESSION
HELD IN THE COUNCIL CHAMBERS
FEBRUARY 11, 2015**

The meeting was called to order by Mayor Kirk Hunsaker at 6:00 pm. Council Members attending: Keith Broadhead, David Hathaway, Mandy Jeffs, and Nick Miller. Matthew Carr was excused.

Others present: City Manager Ben Reeves, Assistant City Manager Dennis Marker, City Engineer Norm Beagley, Public Works Director Wade Eva and Dan Olson.

DISCUSSION ITEMS

Water Rights and Policy

Assistant City Manager Marker began with a presentation titled "Water Rights 101". The discussion included who owns the water, what is a water right, what is a point of diversion, the volume, flow, depletion, and priority of a water right, priority vs forfeiture, rights vs share, paper vs wet water, and water policy. (see attachment "A" for the presentation)

Engineer Beagley reviewed a presentation with regard to the availability of water. Throughout the presentation it was reiterated that the worth a "paper" water depended on the availability of "wet" water. Council Member Broadhead stated the presentation didn't include 909 acre feet of water in which the city is under contract for. This water could be offered back to Central Utah Water in exchange for funding of a water project. Engineer Beagley also reviewed the water rights current vs future, pressure irrigation usage from Summit Creek Irrigation Company as well as water right summary prepared by J-U-B. (see attachment "B")


General Discussion

Mr. Olson addressed the Mayor and Council Members with regard to wielding Summit Creek Irrigation Water through the pressurize irrigation pipes. Mr. Olson presented the Mayor and Council Members with recommendations as to how his request may work. (see attachment "C") It was determined an agreement would be drafted using the 12 bullet points listed in the proposal. After the agreement is drafted all effected parties will review it and make any necessary changes. Mr. Olson will provide the "Trust" information to Assistant City Manager Marker so it can be included in the agreement.

A discussion was held as to installing a meter at the mouth of the canyon in order to meter the water usage. Engineer Beagley reported the State Engineer will require metering in the near future.

The Work Session concluded at 8:48 pm.

Approved on February 18, 2015.

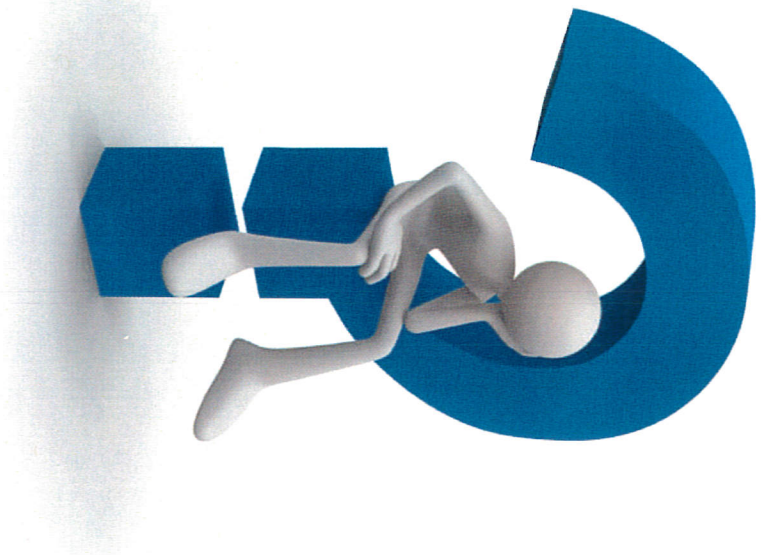

Kirk Hunsaker, Mayor


Susan B. Farnsworth, City Recorder

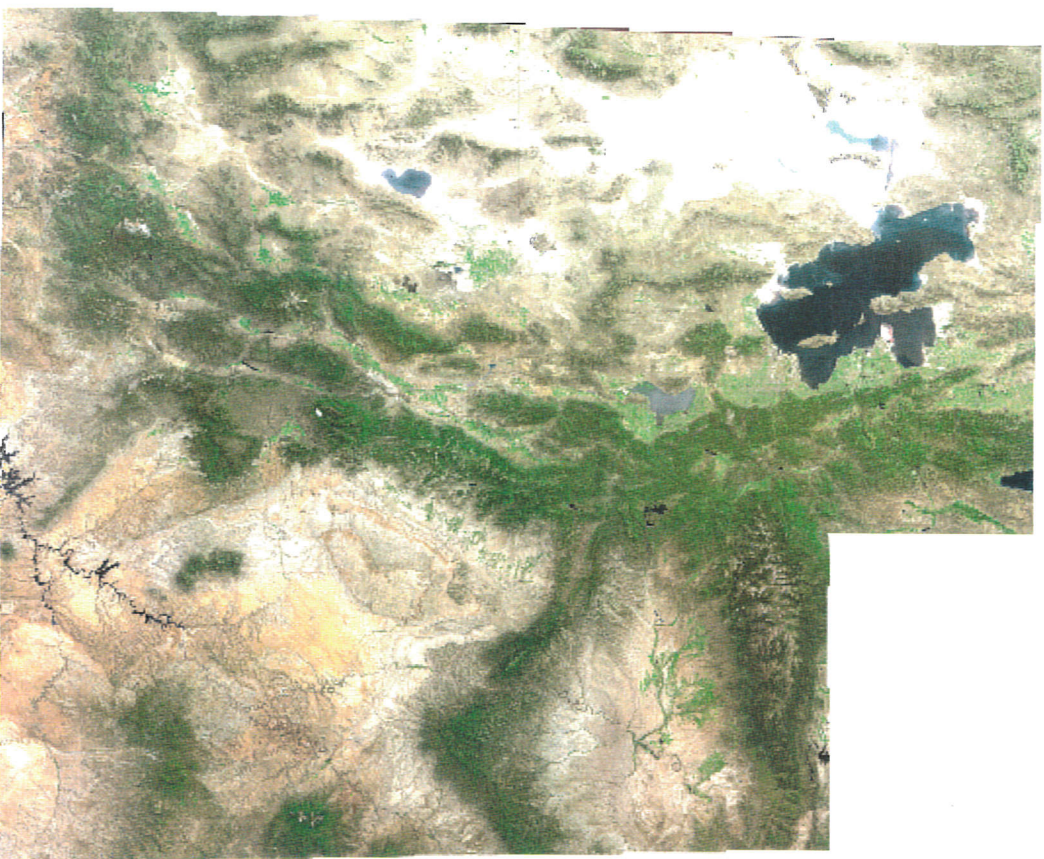
Water Rights 101

**Water you knew or
thought you knew about
water rights**

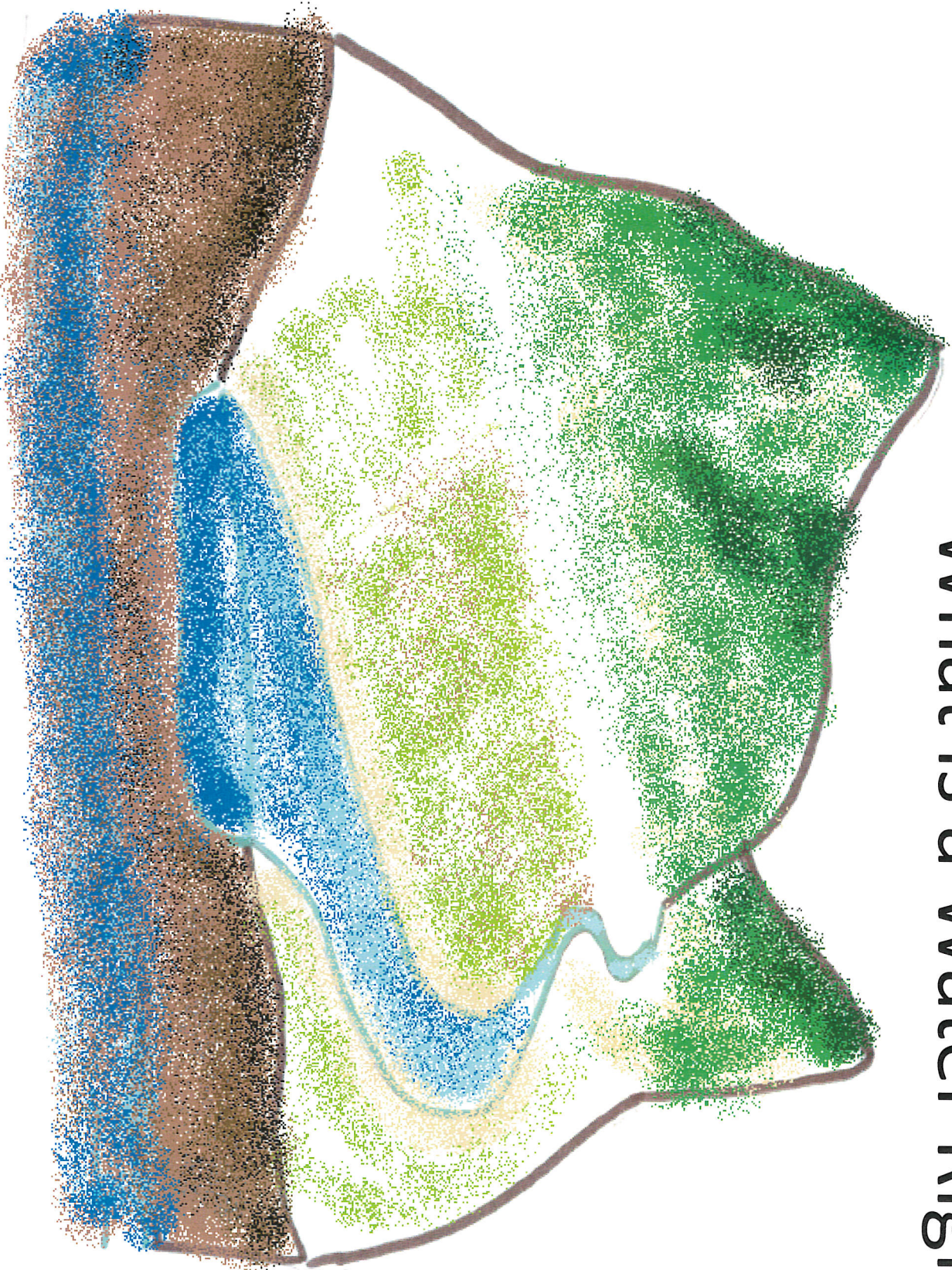
Q. *Who owns the water?*



A. The State of Utah



What is a Water Right?



Water Right

TYPE OF USE

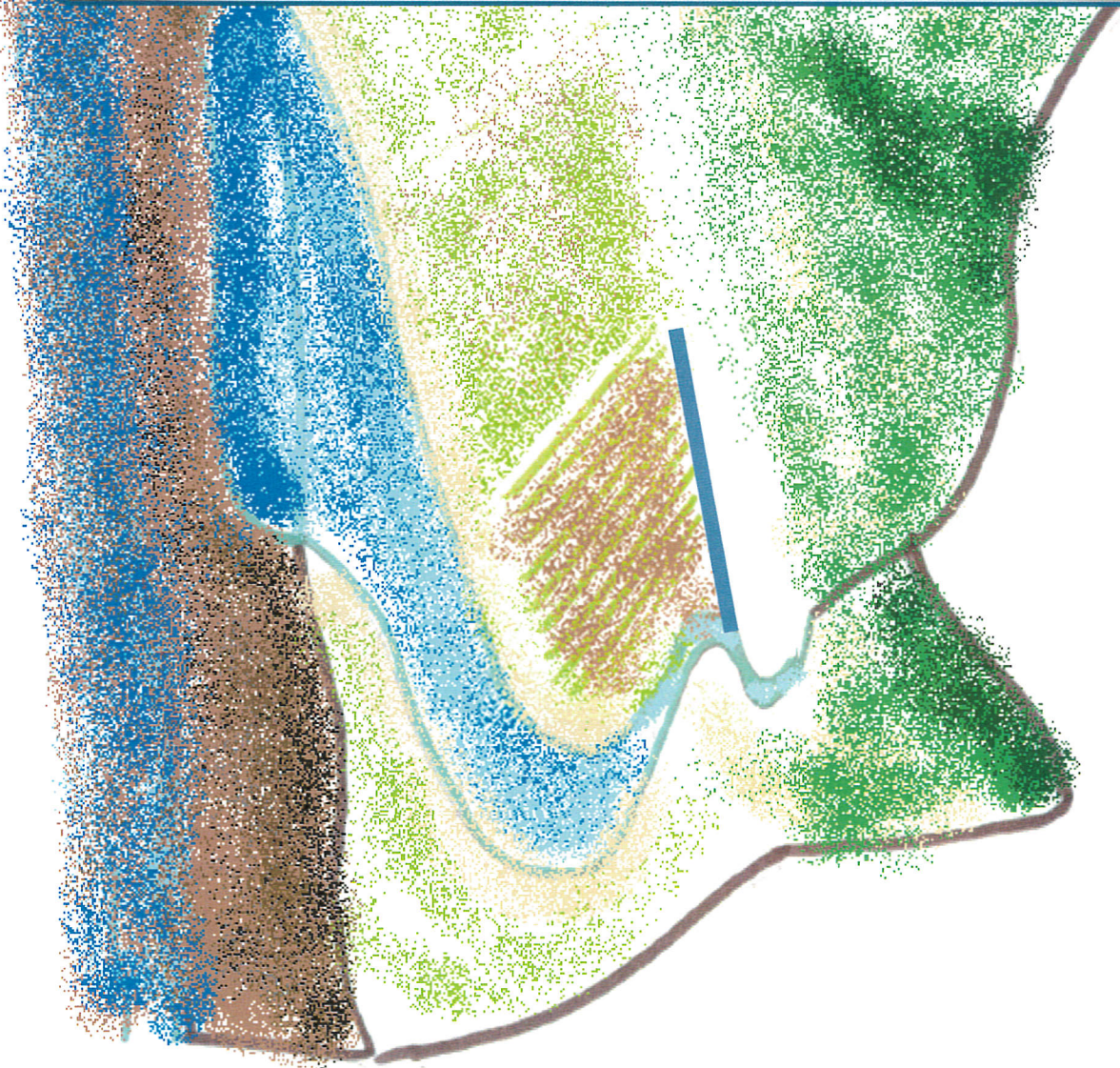
POINT OF
DIVERSION

VOLUME
(ACRE FEET)

FLOW
(CUBIC FEET/SEC)

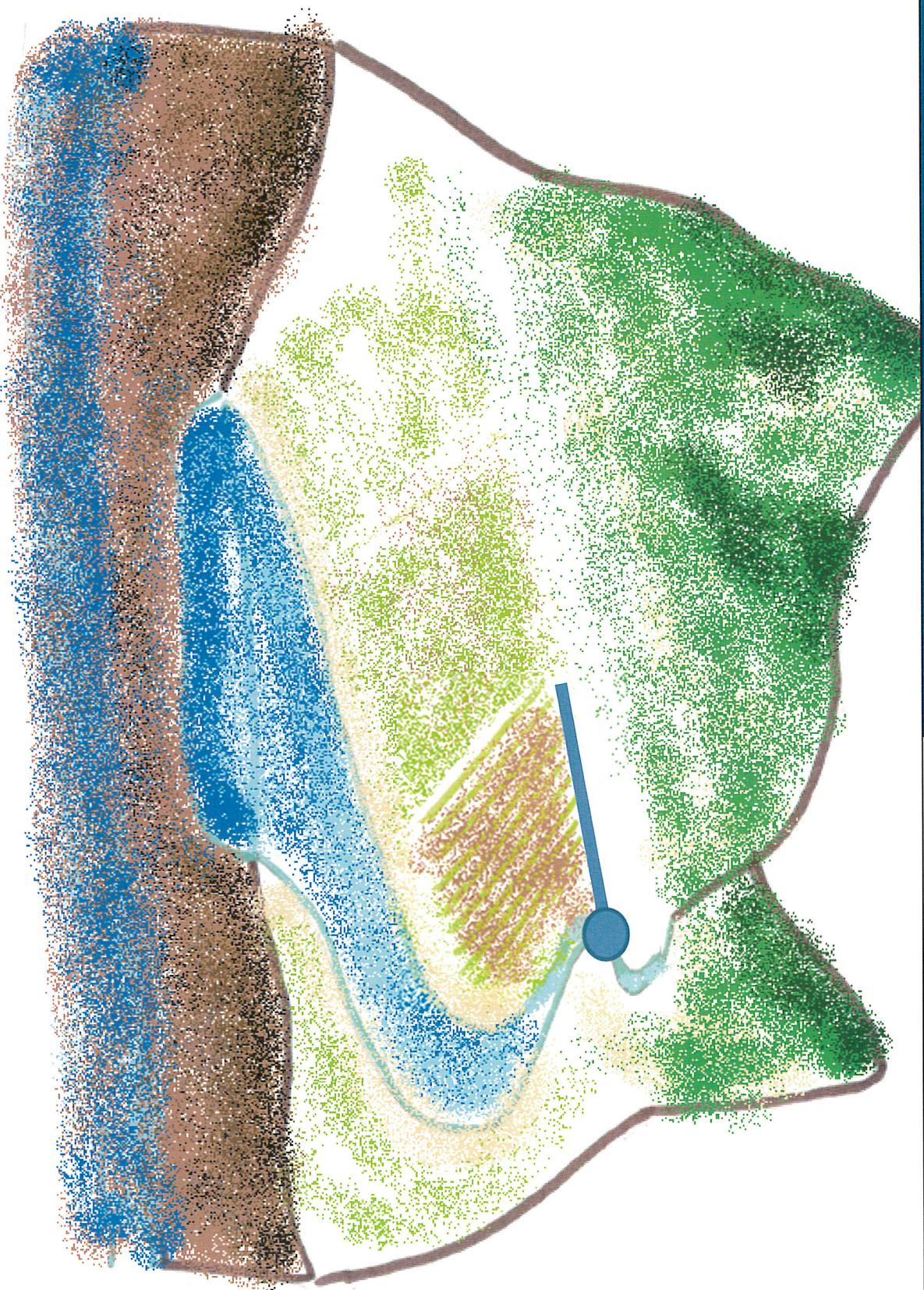
DEPLETION

ISSUANCE DATE
(I.E. PRIORITY DATE)



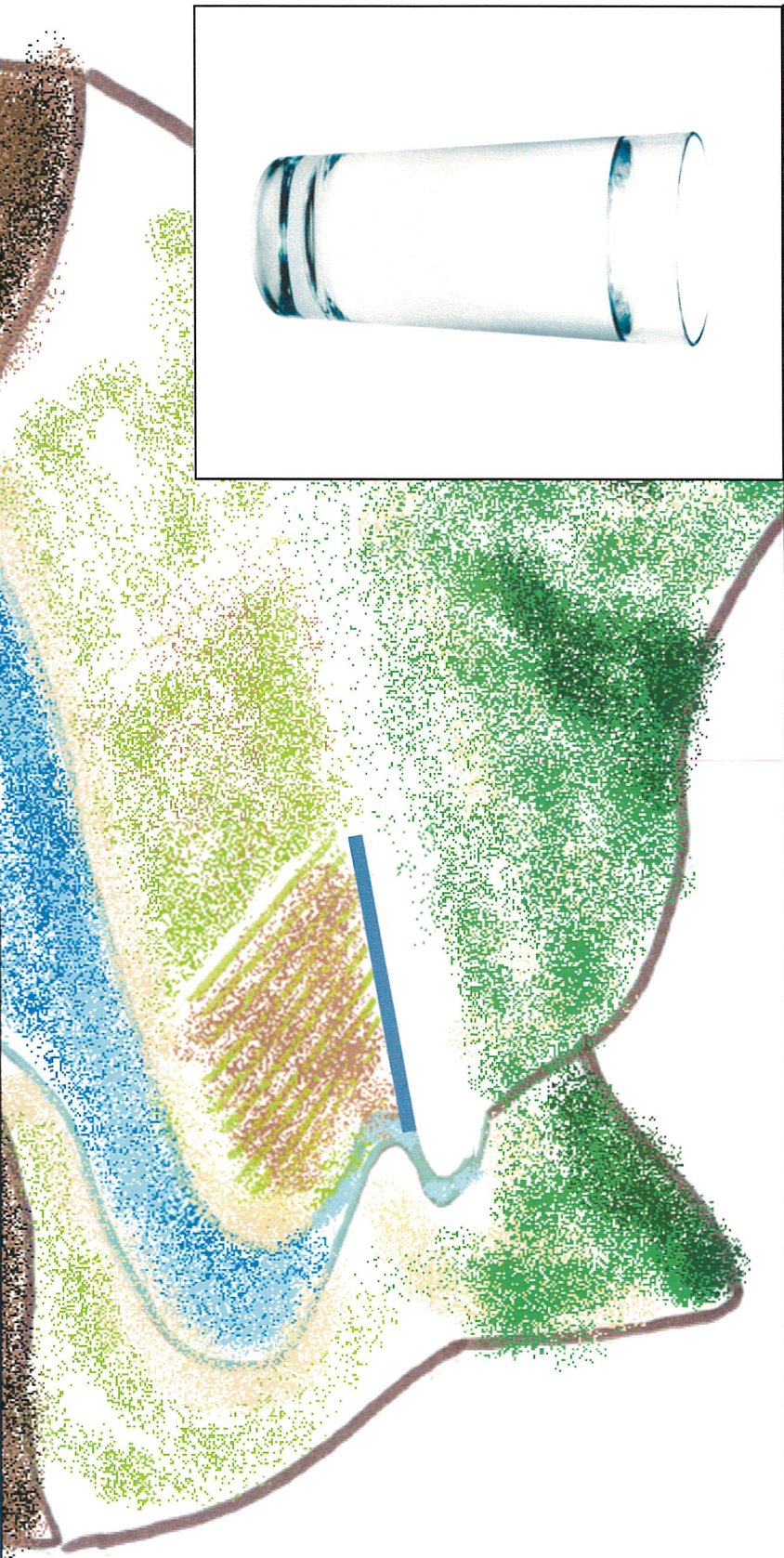
POINT OF DIVERSION

The location where water can be
diverted from its natural course



VOLUME

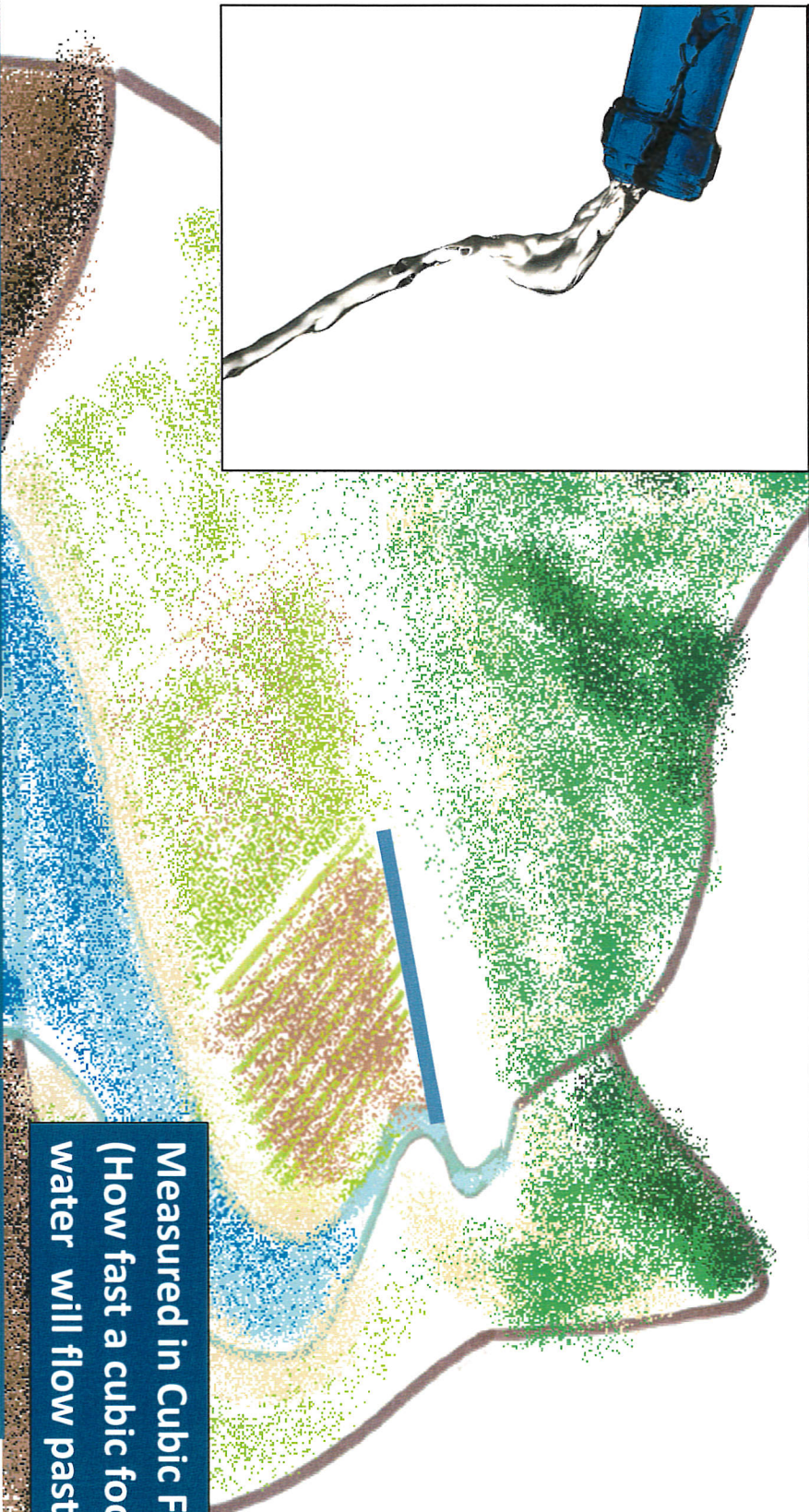
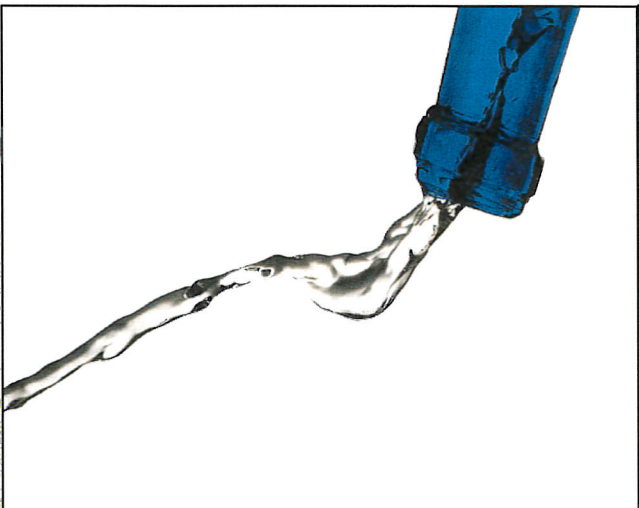
The total amount of water contained within the water right.



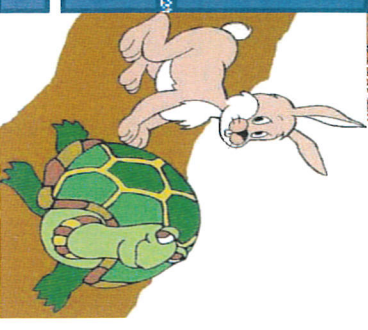
Measured in Acre Feet. (The volume of water if 1 foot deep over an acre 326K gal)
A single family in Utah typically uses 1 acre foot in a year for indoor and outdoor water. (i.e. 1 af = approx. 1 house)

FLOW

How quickly the water can be taken
from the Point of Diversion



Measured in Cubic Feet / Sec.
(How fast a cubic foot of
water will flow past a point



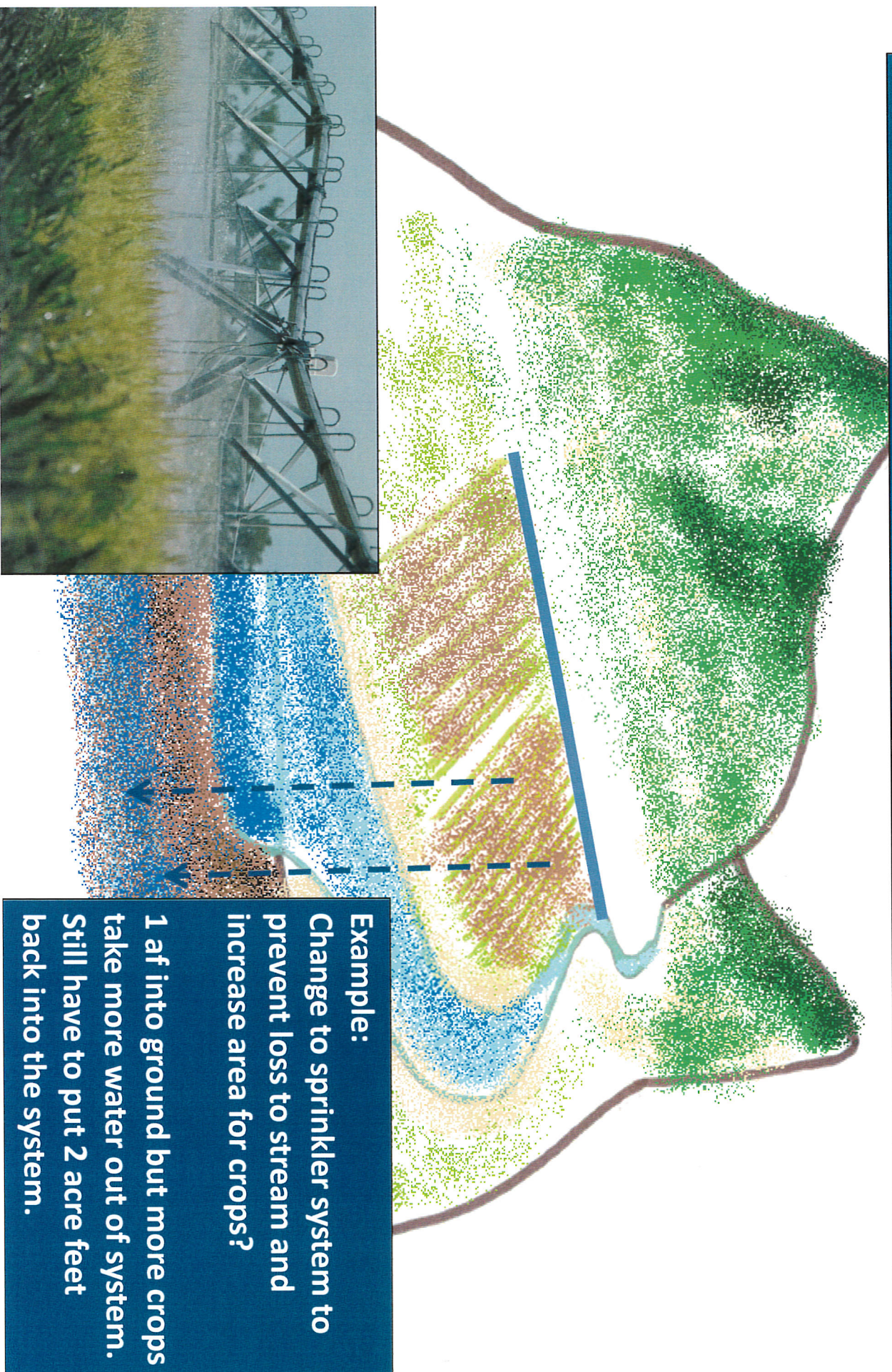
Example:
A 4 acre feet right has a
feet use and 2 acre feet
requirement.
1 acre foot surface flow
and 1 acre foot percola
groundwater.

A 4 acre feet right has a 2 acre feet use and 2 acre feet return requirement.

**1 acre foot surface flows back
and 1 acre foot percolates to
groundwater.**

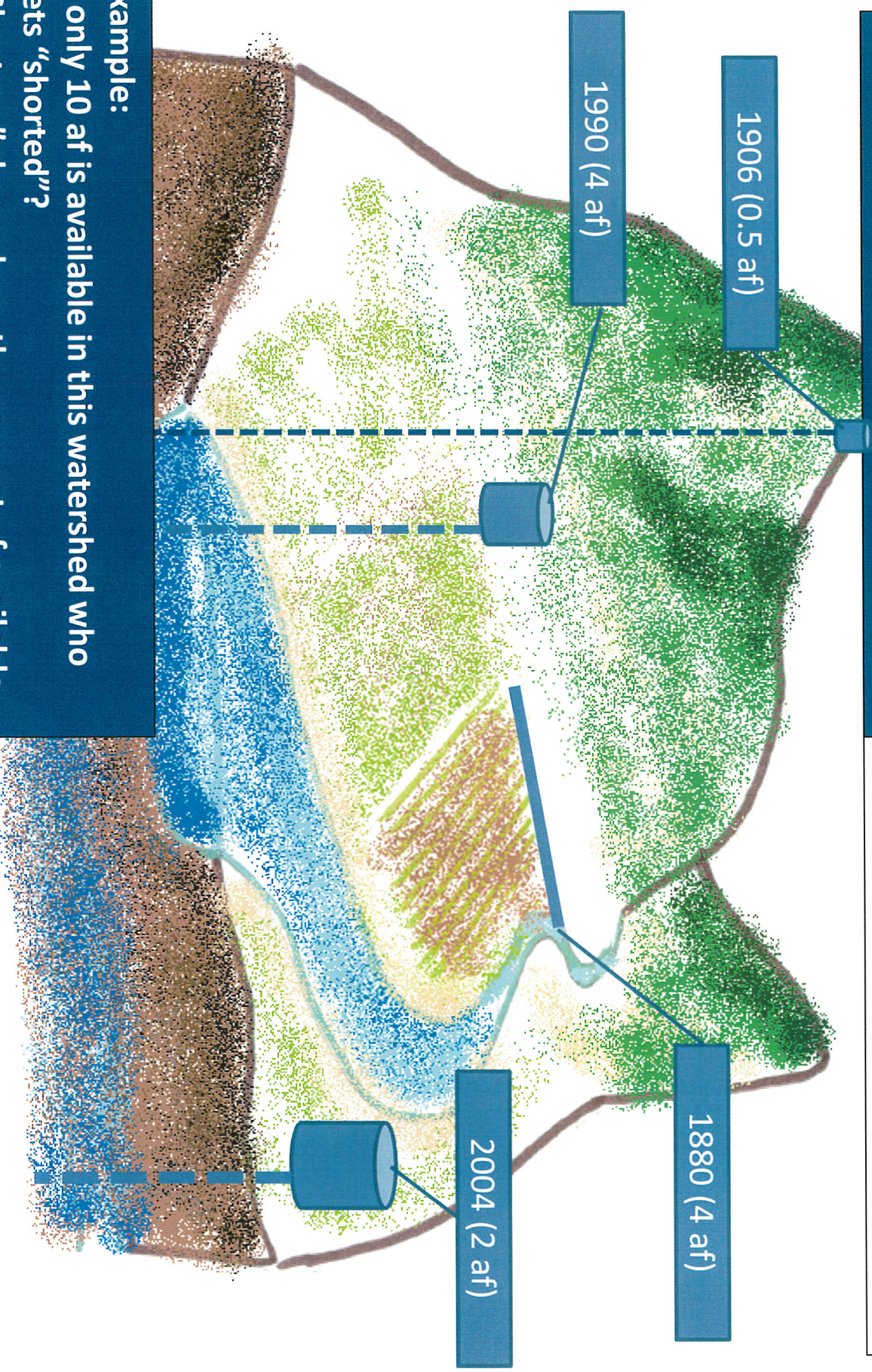
Depletion

The amount of water that must be returned to the natural system



Priority

The establishment of who gets water first, based on the priority date of right.

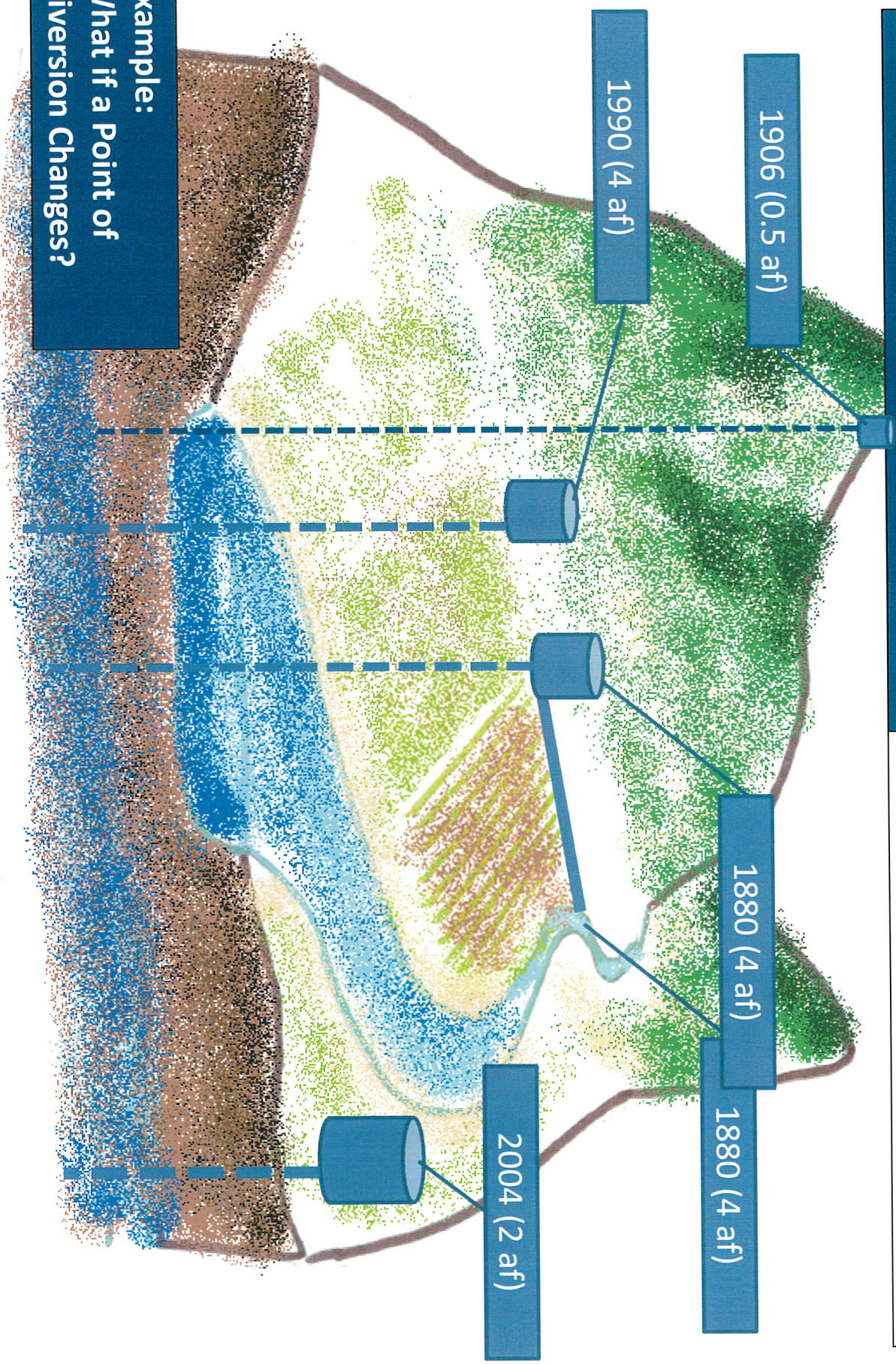


Example:

If only 10 af is available in this watershed who gets "shorted"?
"Shortage" depends on the amount of available water in a given year.

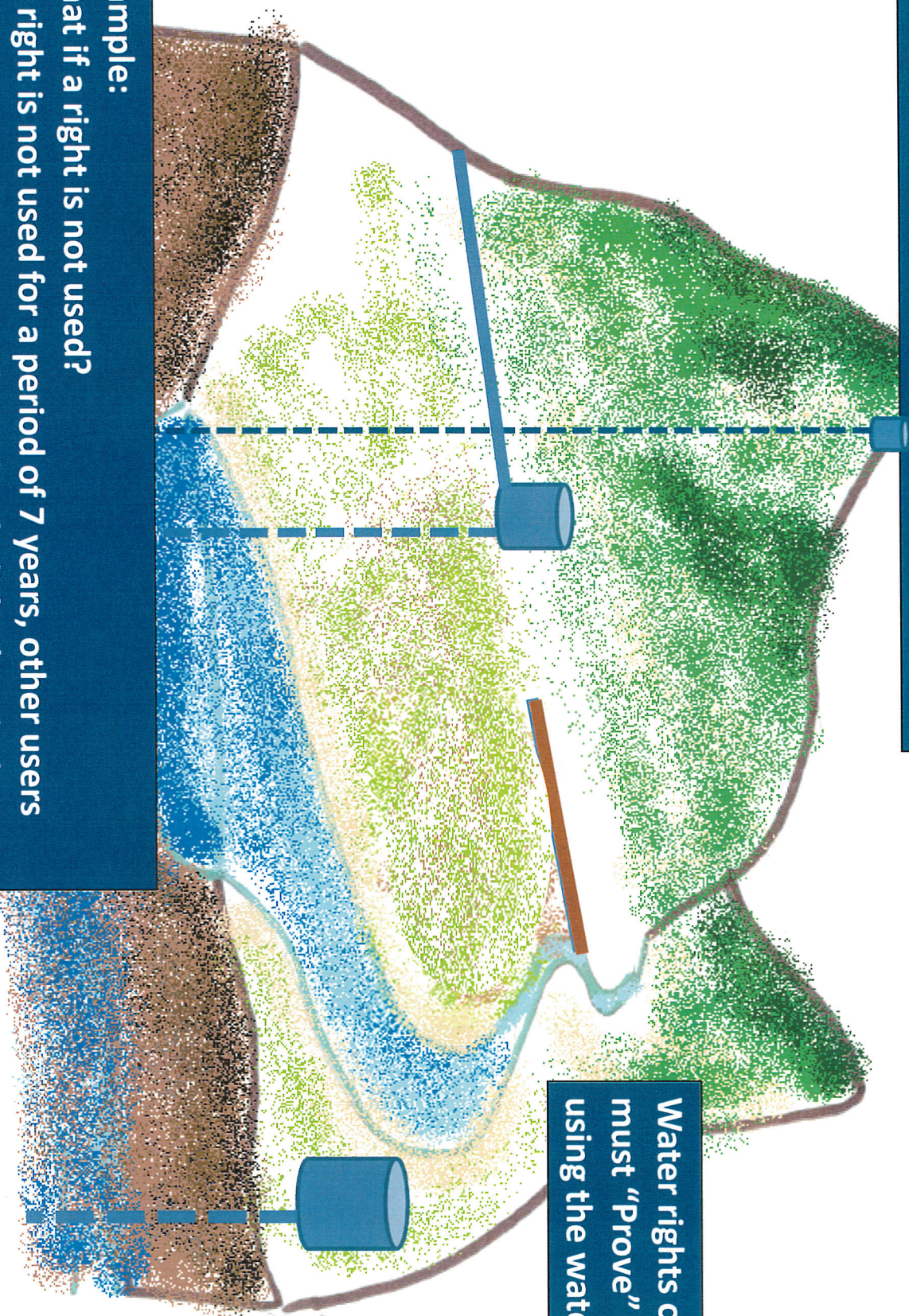
Priority

The establishment of who gets water first, based on date of right.



Example:
What if a Point of
Diversion Changes?

Priority vs Forfeiture



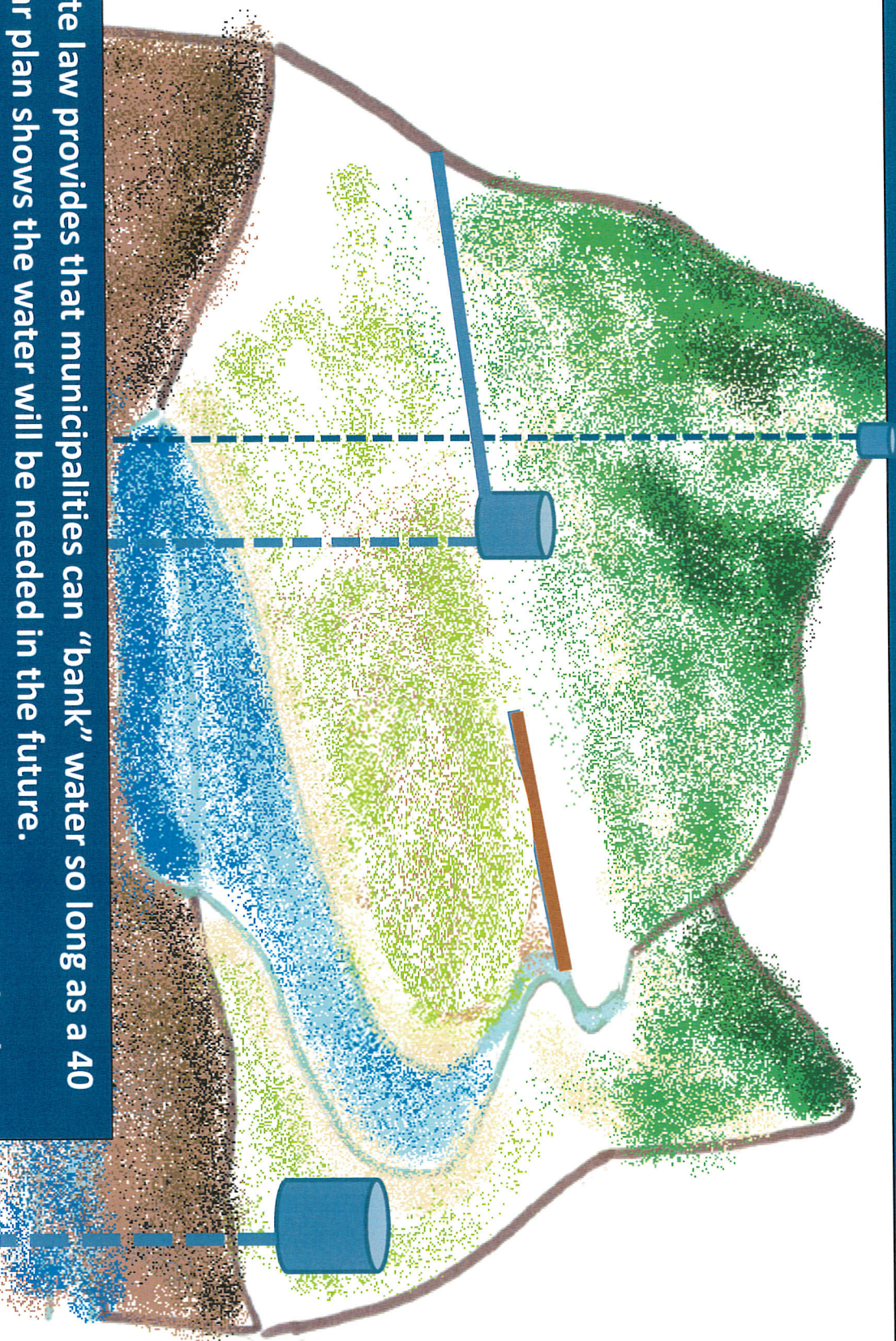
Water rights owners must "Prove" they are using the water.

Example:

What if a right is not used?

If a right is not used for a period of 7 years, other users can file a law suit to have the right abolished. Priority dates don't change.

Forfeiture of Irrigation Right vs Public System



State law provides that municipalities can "bank" water so long as a 40 year plan shows the water will be needed in the future. Must submit applications for extension of proofs. Priority dates don't change with proofs or extension periods.

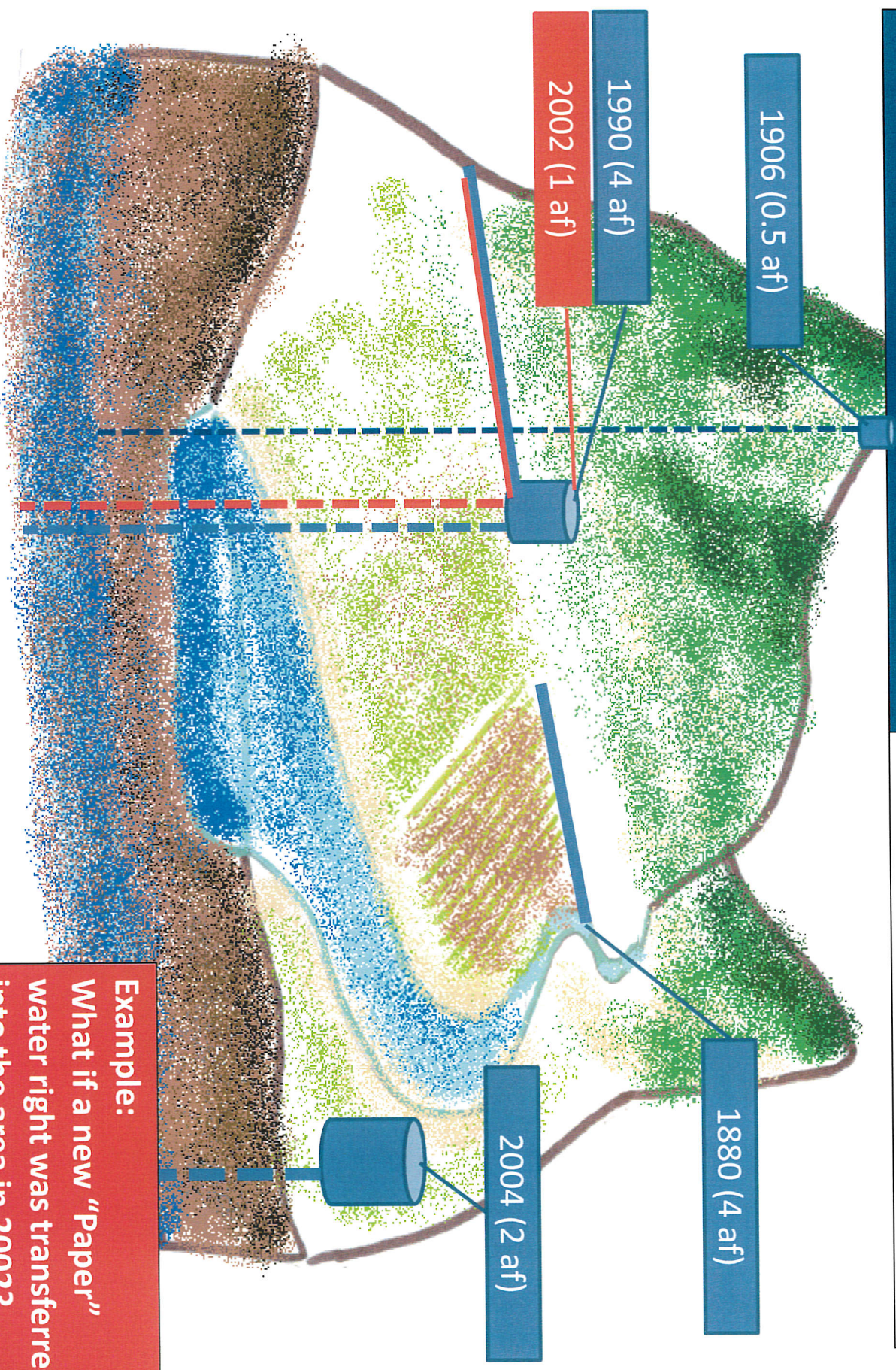
Rights vs Shares

Shares are an allocation of a larger right typically held by an irrigation company



Paper vs Wet Water

All water rights are paper water. The question relates to available supply.



Example:
What if a new "Paper"
water right was transferred
into the area in 2002?

Water Policy Discussion Items

- Where are we with Total Volume (40 year plan)?
 - Culinary
 - Irrigation
- Where are we with Priority Dates?
- Acquisition Strategy
 - New development vs Irrigation Rights
- How much is available for "buy-in."
- Wheeling of water in the City system

Santaquin Growth Projections						Indoor Water (Culinary)																				
Year	Population	Average Annual Growth Rate	Additional Persons/Yr	Culinary Water System ERCs (Starting from Master Plan)	Pressure Irrigation System ERCs (Starting from Master Plan)	Irrigated Acreage	Quantity Required				Sources Quantity ¹															
							Genola Town	Supplied to Irrigation System	Culinary Use	Total Required (Genola Town + Irrigation + Culinary Use)	Quantity of Rights Held	Maximum Source Capacity	Water Use	Springs	Wells											
															Cemetery	Center Street (used for Pressure Irrigation)	East Side (not culinary quality)	Summit Ridge	West Side 1 (constructed at 6654 ERCs)	West Side 2 (constructed at 10623 ERCs)						
																					at	at	at	at	at	at
																					0.25 acres/ERC	100 gpm	400 (gal/ERC/day) (average day)			2 cfs
(acres)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)											
2010	9,128	4.23%																								
2011	9,514	1.62%	386				162	443.47			5612.60	6748	1575	1084	119.7		116.5	254.7								
2012	9,668	1.81%	154				162	661.01			5612.60	6748	2085	1253	288.2		25.2	518.1								
2013	9,843	8.28%	175	3,123	2,363	591	162	600.22	1154.98	1917	5612.60	6748	1917	1154	245.2		0	517.8								
2014	10,658	8.28%	815	3,332	2,568	642	162	596.64	1145.66	1905	5612.60	6748	1905	1177	219		0	510								
2015	11,540	8.28%	882	3,558	2,790	697	161	600	1594	2356	5612.60	6748		1448	1065		0	4236								
2016	12,496	8.28%	956	3,803	3,030	757	161	600	1704	2466	5612.60	6748		1448	1065		0	4236								
2017	13,531	8.28%	1,035	4,069	3,290	822	161	600	1823	2584	5612.60	6748		1448	1065		0	4236								
2018	14,651	8.28%	1,120	4,356	3,571	893	161	600	1952	2713	5612.60	6748		1448	1065		0	4236								
2019	15,864	8.28%	1,213	4,667	3,876	969	161		2091	2252	5612.60	6748		1448	1065		0	4236								
2020	17,178	8.28%	1,314	5,004	4,206	1,052	161		2242	2403	5612.60	6748		1448	1065		0	4236								
2021	17,815	3.71%	637	5,167	4,366	1,092	161		2315	2477	5612.60	6748		1448	1065		0	4236								
2022	18,476	3.71%	661	5,337	4,532	1,133	161		2391	2553	5612.60	6748		1448	1065		0	4236								
2023	19,161	3.71%	685	5,512	4,705	1,176	161		2470	2631	5612.60	6748		1448	1065		0	4236								
2024	19,872	3.71%	711	5,695	4,883	1,221	161		2552	2713	5612.60	6748		1448	1065		0	4236								
2025	20,610	3.71%	737	5,884	5,069	1,267	161	2	2636	2800	5612.60	6748		1448	1065		0	4236								
2026	21,374	3.71%	765	6,080	5,261	1,315	161	4	2724	2889	5612.60	6748		1448	1065		0	4236								
2027	22,167	3.71%	793	6,283	5,460	1,365	161	6	2815	2983	5612.60	6748		1448	1065		0	4236								
2028	22,990	3.71%	822	6,494	5,667	1,417	161	8	2910	3079	5612.60	6748		1448	1065		0	4236								
2029	23,842	3.71%	853	6,713	5,881	1,470	161	10	3008	3179	5612.60	10199		1448	1065		0	4236								
2030	24,727	3.71%	885	6,939	6,103	1,526	161	10	3109	3281	5612.60	10199		1448	1065		0	4236								
2031	25,481																									

MAYOR-COUNCIL WORK SESSION
FEBRUARY 11, 2015 "ATTACHMENT "B"

Santaquin Growth Projections							Outdoor Water (Pressure Irrigation)															
Year	Population	Average Annual Growth Rate	Additional Persons/Yr	Culinary Water System ERCs (Starting from Master Plan)	Pressure Irrigation System ERCs (Starting from Master Plan)	Irrigated Acreage	Quantity Required	Sources Quantity ¹														
								Quantity of Water In Rights and Shares	Maximum Source Capacity ²	Water Use	Summit Creek Irrigation Company (2103 Total Shares Exist)			Water Reclamation Facility (Storage)	Water Reclamation Facility (Recovery Well - 90 days/yr)	Provided by Culinary System	Spring Overflow Capture	Wells ³		SHLC & CUP Aqueduct Connections (needed at 6055 ERCs)		
							at 0.25 acres/ERC	at 1.87 ac-ft/irrigable acre/yr	(SCIC + WRF + CUP) (not counting culinary, spring or well rights)	(SCIC + WRF + from Culinary + Springs + Wells + CUP) (well & spring capacity is duplicated in culinary system)	(SCIC + WRF + from Culinary + Springs + Wells + CUP)	City-owned Shares	Water Right ⁴ at 3 ac-ft/ share	Water Use ⁴ Actual delivery per share varies ¹	at 5302.7 ac-ft/yr max		at 0.2 MGD	at 0.348 MGD	at 903 ac-ft/yr max			
						(acres)	(ac-ft/irrigable acre/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)		(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)				
2010	9,128	4.23%																				
2011	9,514	1.62%	386									744.58			443							
2012	9,668	1.81%	154					1662	2323	1874	554	1662	1213		661							
2013	9,843	8.28%	175	3,123	2,363	591	1105	1800	2604	1618	600	1800	814	0			203.82					
2014	10,658	8.28%	815	3,332	2,568	642	1200	2140	2931	1705	636	1907	680	233.93		597	193.7					
2015	11,540	8.28%	882	3,558	2,790	697	1304	2538	3441	3441	660	1981	1981	557	0	600	111	192				
2016	12,496	8.28%	956	3,803	3,030	757	1416	2616	3519	3519	686	2059	2059	557	0	600	111	192				
2017	13,531	8.28%	1,035	4,069	3,290	822	1538	2697	3600	3600	713	2140	2140	557	0	600	111	192				
2018	14,651	8.28%	1,120	4,356	3,571	893	1670	2781	3684	3684	741	2224	2224	557	0	600	111	192				
2019	15,864	8.28%	1,213	4,667	3,876	969	1812	2868	3171	3171	770	2311	2311	557	0	0	111	192				
2020	17,178	8.28%	1,314	5,004	4,206	1,052	1966	3470	3773	3773	801	2402	2402	1068	0	0	111	192				
2021	17,815	3.71%	637	5,167	4,366	1,092	2041	3551	3853	3853	815	2444	2444	1106	0	0	111	192				
2022	18,476	3.71%	661	5,337	4,532	1,133	2119	3614	3917	3917	829	2487	2487	1127	0	0	111	192				
2023	19,161	3.71%	685	5,512	4,705	1,176	2199	3679	3982	3982	844	2531	2531	1148	0	0	111	192				
2024	19,872	3.71%	711	5,695	4,883	1,221	2283	3746	4049	4049	858	2575	2575	1170	0	0	111	192				
2025	20,610	3.71%	737	5,884	5,069	1,267	2370	3894	4198	4198	874	2621	2621	1193	80	2	111	192				
2026	21,374	3.71%	765	6,080	5,261	1,315	2459	3985	4292	4292	889	2667	2667	1217	101	4	111	192				
2027	22,167	3.71%	793	6,283	5,460	1,365	2553	4079	4387	4387	905	2714	2714	1242	123	6	111	192				
2028	22,990	3.71%	822	6,494	5,667	1,417	2649	4175	4486	4486	920	2761	2761	1267	146	8	111	192				
2029	23,842	3.71%	853	6,713	5,881	1,470	2749	4274	4587	4587	937	2810	2810	1294	170	10	111	192				
2030	24,727	3.71%	885	6,939	6,103	1,526	2853	4381	4693	4693	953	2859	2859	1321	195	10	111	192				
2031	25,481	3.05%	754	7,133	6,293	1,573	2942	4482	4795	4795	967	2901	2901	1345	216	10	111	192				
2032	26,258	3.05%	777	7,332	6,488	1,622	3033	4597	4910	4910	981	2942	2942	1369	238	10	111	192				
2033	27,059	3.05%	801	7,537	6,689	1,672	3127	4714	5027	5027	995	2985	2985	1394	260	10	111	192				
2034	27,885	3.05%	825	7,749	6,897	1,724	3224	4835	5147	5147	1009	3028	3028	1420	283	10	111	192				
2035	28,735	3.05%	850	7,967	7,111	1,778	3324	4958	5271	5271	1024	3072	3072	1446	307	10	111	192				
2036	29,611	3.05%	876	8,192	7,331	1,833	3427	5086	5398	5398	1039	3116	3116	1473	332	10	111	192				
2037	30,515	3.05%	903	8,423	7,558	1,889	3533	5216	5529	5529	1054	3161	3161	1501	357	10	111	192				
2038	31,445	3.05%	931	8,662	7,792	1,948	3643	5351	5663	5663	1069	3207	3207	1530	383	10	111	192				
2039	32,404	3.05%	959	8,908	8,033	2,008	3755	5489	5801	5801	1084	3253	3253	1560	410	10	111	192				
2040	33,393	3.05%	988	9,161	8,281	2,070	3871	5631	5943	5943	1100	3301	3301	1591	437	10	111	192				
2041	34,030	1.91%	638	9,325	8,441	2,110	3946	5736	6049	6049	1110	3330	3330	1611	455	10	111	192				
2042	34,680	1.91%	650	9,492	8,605	2,151	4023	5844	6157	6157	1120	3361	3361	1631	474	10	111	192				
2043	35,343	1.91%	662	9,661	8,771	2,193	4100	5949	6262	6262	1130	3391	3391	1652	492	10	111	192				
2044	36,018	1.91%	675	9,835	8,941	2,235	4180	6055	6368	6368	1141	3422	3422	1673	511	10	111	192				
2045	36,706	1.91%	688	10,011	9,114	2,278	4261	6164	6533	6533	1151	3453	3453	1694	530	66	111	192				
2046	37,407	1.91%	701	10,191	9,290	2,322	4343	6274	6700	6700	1161	3484	3484	1716	550	123	111	192				
2047	38,121	1.91%	714	10,374	9,469	2,367	4427	6150	6633	6633	1172	3515	3515	1738	570	180	111	192				
2048	38,850	1.91%	728	10,561	9,652	2,413	4512	6260	6799	6799	1182	3547	3547	1761	590	236	111	192				
2049	39,592	1.91%	742	10,751	9,839	2,460	4600	6371	6967	6967	1193	3579	3579	1784	611	293	111	192				
2050	40,348	1.91%	756	10,945	10,029	2,507	4688	6484	7093	7093	1204	3612	3612	1807	632	305	111	192				
2051	40,997	1.61%	650	11,111	10,192	2,548	4765	6587	7208	7208	1213	3639	3639	1827	650	318	111	192				
2052	41,657	1.61%	660	11,281	10,358	2,589	4842	6692	7325	7325	1222	3667	3667	1848	669	330	111	192				
2053	42,328	1.61%	671	11,453	10,526	2,632	4921	6795	7440	7440	1232	3695	3695	1869	688	342	111	192				
2054	43,010	1.61%	681	11,627	10,698	2,674	5001	6901	7558	7558	1241	3723	3723	1890	707	354	111	192				
2055	43,702	1.61%	692	11,805	10,872	2,718	5083	7008	7667	7667	1251	3752	3752	1912	726	356	111	192				
2056	44,406	1.61%	704	11,985	11,048	2,762	5165	7117	7777	7777	1260	3780	3780	1933	746	357	111	192				
2057	45,121	1.61%	715	12,169	11,228	2,807	5249	7227	7889	7889	1270	3809	3809	1956	766	359	111	192				
2058	45,847	1.61%	726	12,355	11,411	2,853	5335	7339	8002	8002	1279	3838	3838	1978	786	360	111	192				
2059	46,585	1.61%	738	12,544	11,596	2,899	5421	7453	8117	8117	1289	3868	3868	2001	807	361	111	192				
2060	47,335	1.61%	750	12,736	11,785	2,946	5509	7568	8232	8232	1299	3897	3897	2025	828	361	111	192				
							<div><div>¹ The Source Quantity listed for the wells is the pumping capacity of each well, not what the water right provides access to</div><div>² The source capacity is needed to meet peak day demand, not seasonal demand</div><div>³ The Cemetery and Center Street Wells are available to serve both the culinary water and pressure irrigation systems. Future values are listed under the available capacity of the culinary water system.</div><div><div>⁴ Construction of the booster station planned in the Pressure Irrigation Master Plan & Capital Facilities Plan in 2014/2015 will increase the ability to take delivery of SCIC well water. Use until 2015 is based on delivery at a rate of 3 ac-ft/year from April 15 to June 30 and at a rate of 1.8 ac-ft/year from July 1 to October 15 until 2015 (1.8 ac-ft is the capacity of the booster station to deliver SCIC well water to the PI system), then 3 ac-ft/year thereafter.</div><div>= actual values</div></div></div>															

Santaquin City
Water Rights Current vs Future

Current WR's held

5,613 ac-ft

Current held in SCLC (approx)

1,144 ac-ft

Total WR's currently held (approx)

6,757 ac-ft

Water needed at Buildout

CW

6,230 ac-ft

PI

5,509 ac-ft

Additional WR's needed

4,983 ac-ft

Total Need: 11,739 ac-ft

Un-annexed developable land in

MP study area

1,530 Acres

WR's that would be acquired under current
policy (3 ac-ft per acre)

4,590 ac-ft

Future WR's for annexed land
that is developable

3,954 ac-ft

Total Accumulated WR's (current
held plus acquired)

15,301 ac-ft

130% (of what is needed)

Discussion Items (City Policy)

Annexation boundary (additional WR's will come from this area)

3 Acre Feet Per Acre (gross area)

Commercial requirement

Developable vs gross area (open space, roads, trails, etc.)

Properties already annexed (within the city) with no development agreements in place

Money in Lieu of WR's

**MAYOR-COUNCIL WORK SESSION
FEBRUARY 11, 2015 "ATTACHMENT "B"**

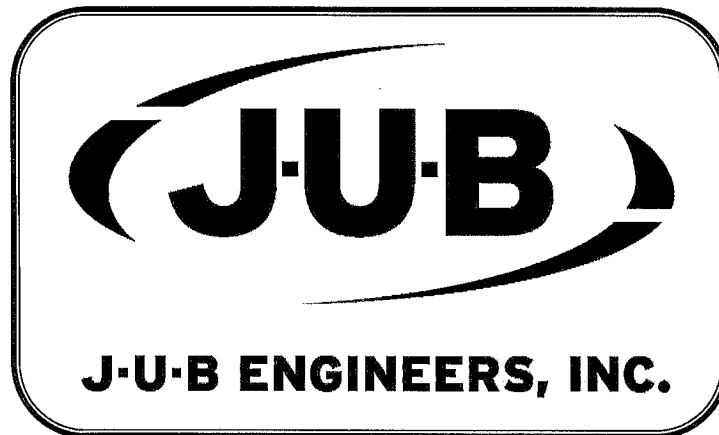
Santaquin City

Pressure Irrigation Usage from Summit Creek Irrigation Company

	2014	2013	2012	2011	2010
				Very Wet Water Year No Pumping	
Booster Pumps (400 N 200 W)					
K-GAL	161,386	166,718	205,494	-	167,228
M-GAL	161,385,969	166,718,013	205,493,787	-	167,228,402
Ac-Ft	495.31	511.67	630.68	-	513.24

Canyon Stream Flow	Estimate only (meter failed)				
K-GAL	60,000	98,639	189,812	242,604	-
M-GAL	60,000,000	98,639,100	189,812,200	242,604,200	-
Ac-Ft	184.15	302.73	582.55	744.58	-

Total PI supply of Summit Ridge Irrigation Company Sources				
	2014	2013	2012	2011
K-GAL	221,386	265,357	395,306	242,604
M-GAL	221,385,969	265,357,113	395,305,987	242,604,200
Ac-Ft	679.45	814.41	1,213.23	744.58



SANTAQUIN CITY

WATER RIGHTS SUMMARY

December 2014
Including 1/16/2015 Change

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Mark



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Santaquin Water Rights

WR Chronology Spreadsheet

We have compiled a summary of water rights belonging to Santaquin City and Santaquin Special Service District. This summary is located in the spreadsheet entitled "WR Chronology".

The Summary tab (Table 1 in Appendix A) includes information about each water right including the quantity of water in the right, type of water right, status of the water right, priority date, date proof is due, and notes.

The Points of Diversion Changes tab (Table 2 in Appendix A) summarizes the points of diversion of each water right as well as changes made to points of diversion with each change application.

The Source Chart tab (Table 3 in Appendix A) shows a tabulation of the points of diversion as they relate to each water right. It also contains a summary of the maximum quantity of water available from each point of diversion for culinary and pressure irrigation water. The totals are the total amount that can be taken from each point of diversion, and it should be noted that some water rights are counted multiple times because they can be used from multiple points of diversion.

The following tabs list documents (Appendix B) that are related to each water right and give information regarding the documents. These documents have been collected and are located in folders labelled with the number of the water right.

Culinary and PI Spreadsheet

The Culinary and PI Spreadsheet (Appendix C) gives a summary of the water demands and sources for culinary and pressure irrigation. There are assumptions made in this spreadsheet that are noted below.

- Santaquin Growth Projections:
 - Population through 2013 is based off actual values.
 - Growth rate and ERCs match the 2013 Pressure Irrigation System Master Plan and Capital Facilities Plan and the 2013 Culinary Water System Master Plan and Capital Facilities Plan for culinary water and pressure irrigation. The growth in number of ERCs uses an average household size of 3.9 people, again matching the master plans.
 - The 3,123 ERCs for culinary water in 2013 came from the 2013 Culinary Water System Master Plan and Capital Facilities Plan. It counts every user whose estimated peak day water use is equal to or less than 800 gallons/day as a single ERC, and adds the calculated ERC equivalency for users whose estimated peak day water use is more than 800 gallons/day.
 - The 2,363 ERCs for pressure irrigation in 2013 came from the 2013 Pressure Irrigation System Master Plan and Capital Facilities Plan. This value was calculated by multiplying the estimated developed acreage in each land use zone to the ratio of irrigated acres per total acres, which resulted in the estimated number of existing irrigated acres. This value was then divided by 0.25 irrigated acres/ERC, which resulted in the number of ERCs.

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- Irrigated acreage is estimated by multiplying the estimated number of pressure irrigation ERCs and 0.25 acres/ERC.
- Indoor Water (Culinary):
 - Genola Town, by court decree, is entitled to 1/9th of the water from the springs. Since the springs produce roughly 900 gpm, they have 100 gpm committed to them (from WR 51-1013).
 - Some irrigation is supplied through the culinary water system (added to culinary requirements). Measured values exist for 2011-2014; we estimate that 600 ac-ft/year will be required until 2018 when the culinary water system will no longer need to provide water to the pressure irrigation system. With development of land in pressure zone 11NE and installation of the booster station to serve that area (projected to occur in 2025), the culinary water system will once again provide water to the pressure irrigation system. We are using the schedule of infrastructure construction in the 2013 Culinary Water System Master Plan and Capital Facilities Plan as the basis of estimating when land in the upper pressure zones will develop. We approximate that development of the land in the upper pressure zones (in which the culinary water system will provide water to the pressure irrigation system) will take about 5 years for each pressure zone. The schedule of development of this land is shown in Table 1 below. The water requirements are calculated by multiplying the ERCs by 0.25 acres/ERC times the water required per ERC (1.87 ac-ft/yr).

Table 1. Projects Requiring Pressure Irrigation from Culinary Water.

Year	Project	Zone Served	ERCs Added
2025	Booster Station	11 NE	21
2045	Summit Ridge Tank	12 W	335
2045	East Tank	13 E	271
2050	Continued development from addition of East Tank	14 E	131
2055	Continued development from addition of East Tank	15 E	15

- Estimated culinary use matches the state standard of 146,000 gal/ERC (400 gal/ERC/day), which comes from Utah Administrative Code R309-510-7, Table 510-1.
- The total water required is the sum of water needed for the Town of Genola, culinary water provided to the irrigation system, and water needed for culinary use.
- The column entitled "Quantity of Rights Held" shows the total quantity of water allowed for culinary use based on the total of Santaquin's water rights.
- The "Maximum Source Capacity" column shows the total of the supply from the spring and the maximum pumping capability of the wells.
 - For the springs we consider the maximum source capacity to equal the water right.
 - The West Side 1 well is projected to begin use in 2029 and the West Side 2 well is projected to begin use in 2049 based on the number of ERCs at these years. The Center Street well is used in the pressure irrigation system.
 - Note that the maximum source capacity is much greater than the water demand. This is because source capacity must be sized to meet peak day

demand, which requires much more capacity than is required to meet yearly demand, which is the focus of this study. *The sources are still required to meet peak day demand.*

- The "Water Use" column shows the total water that is actually used each year. This must be manually added by filling in values for water used from the springs and the wells. Note that the gray cells denote historic data (as opposed to estimated data).
- Outdoor Water (Pressure Irrigation):
 - The required amount of water is estimated to match the state requirement of 1.87 ac-ft/irrigable acre per season.
 - The "Quantity of Water in Rights and Shares" column is the sum of the water represented by the Summit Creek Irrigation Company shares, the Water Reclamation Facility rights, and the rights associated with the future Strawberry High Line Canal (SHLC) and Central Utah (CUP) aqueduct. Rights related to the culinary wells and springs are not included in this total because these water rights are accounted for in the culinary system.
 - The "Maximum Source Capacity" column is the total of all the water that could be provided to the irrigation system. This includes the water from Summit Creek Irrigation Company shares, the Water Reclamation Facility, the culinary system, the springs, the wells, and the future SHLC and CUP aqueduct. Note that this duplicates the capacity in the wells, as it is already accounted for in the culinary system.
 - Note that the maximum source capacity is much greater than the water demand. This is because source capacity must be sized to meet peak day demand, which requires much more capacity than is required to meet seasonal demand, which is the focus of this study. *The sources are still required to meet peak day demand.*
 - The "Water Use" column is the sum of what is actually used from the Summit Creek Irrigation shares, Water Reclamation Facility, culinary system, springs, wells, and SHLC and CUP aqueduct.
 - Number of Summit Creek Irrigation stocks was determined using the current number of 635.5, the population growth rate, and the target number of stocks in 2060 of 1350. The target number of 1350 shares was established in the Pressure Irrigation System Master Plan and Capital Facilities Plan.
 - A yield of 3 ac-ft/year was used for each Summit Creek Irrigation stock (from the master plan).
 - The actual delivery of Summit Creek Irrigation Water can vary. The construction of the booster station planned in the Pressure Irrigation Master Plan & Capital Facilities Plan in 2014/2015 will increase the ability to take the delivery of the Summit Creek Irrigation well water. Use until 2015 is based on delivery at a rate of 3 ac-ft/year from April 15 to June 30 and a rate of 1.8 ac-ft/year from July 1 to October 15 until 2015 (1.8 ac-ft is the capacity of the booster station to deliver SCIC well water to the PI system), then 3 ac-ft/year thereafter.
 - Water from the Water Reclamation Facility comes from two different sources: the storage ponds and the recovery well. The recovery well is projected to be used starting in 2025.

- Some irrigation is supplied through the culinary water system (see information on the irrigation from culinary supply above).
- The supply from the Water Reclamation Facility, Strawberry High Line Canal, and Central Utah Project match the Pressure Irrigation System Master Plan & Capital Facilities Plan.
- The Strawberry High Line Canal and Central Utah Project aqueduct connections are projected to be used starting in 2030 (6055 ERCs).

Recommended Actions

We have several recommendations to accomplish more flexibility in using the current water rights:

1. File change applications to allow water to be collected from any well for the water rights (see WR Chronology spreadsheet – Source Chart tab to find points of diversion for each water right).
2. Santaquin should continue to receive stocks for WR 53-1496, WR 53-1675, and WR 51-7045; once Santaquin owns all the stocks, they should submit proof of beneficial use.
3. Continue submitting extensions for submission of proof of beneficial use until proof can be supplied.
4. Evaluate the Provisional Well as a possible point of diversion. If it is not feasible, seal the well.
5. Continue work on acquiring the recharge and recovery permits for the Water Reclamation Facility.
6. Continue acquiring water rights through annexation.
7. Continue following the Master Plan and Capital Facilities Plan for each water system to make system improvements.
8. As more water rights are acquired, file new water reuse applications.
9. Study the actual outdoor water use in Santaquin to consider increasing the assumed demand of 1.87 ac-ft/irrigated acre
10. Discuss each certificated water right with the Division of Water Rights to find out if change applications will need to be re-certificated or not.

APPENDIX A – Water Right Chronology Tables

Table 1: Summary of Water Rights and Change Applicatons

Owner	Application / Claim #	Source	Flow cfs	Quantity ac ft	Type	App #	Status	CERT #	Priority Date	Proof Due	Note
Santaquin City Corp.,	51-1013	Summit Creek & Springs	2.00	1447.955	APPL	A4573	CERT	1238	3/22/1912		Supplemental Group No. 227200 and 230961
Santaquin City Corporation	51-1347	Underground Water Well & Spring	2.52	1824.423	APPL	A27809	CERT	6251	1/18/1956		
Santaquin City Corporation	a4097	Underground Water Well & Spring					Approved		7/18/1962		Change Application to WR 51-1347
Santaquin City Corporation	a9506	Underground Water Well & Spring					Withdrawn		11/15/1993		Change Application to WR 51-1347
Santaquin City Corporation	t24464	Underground Water Well					Rejected		4/26/2000		Change Application to WR 51-1347
Santaquin City Corporation	a24465	Underground Water Wells (2) & Spring					Withdrawn		3/24/2011		Change Application to WR 51-1347, POD in part to multiple wells. Withdrawn with approval of a39488
Santaquin City Corporation	a39488	Underground Water Wells (3) & Spring					Approved		9/11/2014	9/30/2019	Change Application to WR 51-1347, POD add existing well
Santaquin City Corporation	51-1348	Underground Water Well	2.48	1795.464	APPL	A27810	CERT	9073	1/18/1956	none	No Proof Due Date on the parent right. Currently Nonuse has been approved
Santaquin City Corporation	a6884	Underground Water Well					CERT		3/30/1972	none	WR 51-1348, POD to Center Street Well
Santaquin City Corporation	a16256	Underground Water Wells (2)					Approved		3/24/2011	1/31/2021	Change Application to WR 51-1348, POD from one city well to another due to diminished production.
Santaquin City	51-7045	Utah Lake & Jordan River			SHAR				00/00/1870		portion of 59-3500, based on 45.5 shares of South Jordan Canal Company Stock
Santaquin City	a20673	Underground Water Wells (2) existing					Withdrawn		1/3/1997		Change Application to WR 51-7045, replaced by final action on a35122
Santaquin City	a26290	Underground Water Wells (4; 1 proposed)					AMENDED		1/28/2002		Change Application to WR 51-7045, Changed POD from Utah Lake and Jordan River to City wells.
Santaquin City	a31014	Underground Water Well					Withdrawn		2/1/2006		Change Application to WR 51-7045, was to replace a26290
Santaquin City	t31016	Underground Water Well					Lapsed		2/1/2006		Change Application to WR 51-7045
Santaquin City	a35122	Underground Water Wells (5) existing		224.770			Approved		12/17/2008	12/31/2016	Change Application to WR 51-7045 right evidenced by a26290
Santaquin Special Service District	51-8394	Underground Water Well			APPL	A26479	CERT	5423	4/26/1955		Supplemental Group #227561,
Santaquin Special Service District	a36078	Underground Water Well (existing)		53.840			Approved		11/17/2009	2/28/2015	Change Application to WR 51-8394, POD from underground well to Underground well of Santaquin Special Service District
Santaquin City Corporation	53-1496	Utah Lake & Jordan River			SHAR	A2136	CERT	1970	10/27/1908		807.35 acft total in 158 shares (103 belong to Santaquin City)
Santaquin City Corporation	a25719	Underground Water Well		204.400			Approved		6/15/2001	9/30/2015	Change Application to WR 53-1496, changed POD from Utah Lake and Jordan River to City Wells
Santaquin City Corporation	53-1675	Utah Lake & Jordan River			SHAR				00/00/1877		49 shares of stock (121 acft) in East Jordan Irrigation Company from WR 53-1507 (Santaquin only has record of 25 of the 49 shares)
Santaquin City Corporation	a26452a	Underground Water Well		61.730			Approved		3/28/2002	1/31/2017	Pertains to WR 53-1675, POD to Summit Ridge Well for Summit Ridge Development from Jordan River
TOTALS			7.00	5612.582							
Santaquin City	NS015	Sewage Reuse	5302.7000 acft				Approved		10/20/2009	Reuse of a portion of WRs 51-1013, 51-1347, 51-1348, 51-7045, & 53-1496. Depletion limit: 5302.7 acft & Diversion limit: 6099.9 acft	
Santaquin City Corporation	RC007	Recharge - West Infiltration Basins	5302.0 acft			Recharge APPL	Pending				
Santaquin City Corporation	RC007-001	Recovery - Santaquin City Wells	5302.0 acft			Recovery APPL	Pending				
Filed 12/30/2013											
Filed 12/30/2014											
Santaquin City Corporation	51-5162	Willow Springs in Santaquin Canyon	0.217 cfs			APPL	A54218	Withdrawn	1/31/1980		
Santaquin City Corporation	51-5163	Springs & Seeps in Santaquin Canyon	1.700 cfs			APPL	A54219	Withdrawn	1/31/1980		
Santaquin City	a23771	Underground Water Wells (2)	80.0000 acft				Withdrawn		9/27/1999	Transfer of water in East Santaquin Irr Company to Santaquin City	

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Table 2: History of Changes to Points of Diversion

Owner	Application / Claim #	Source	Points of Diversion Added	Points of Diversion Removed	Current Points of Diversion (at that amendment)	Amount	Priority Date
Santaquin City Corp.,	51-1013	Summit Creek & Springs	S 223ft W 693ft from N4 cor, Sec 19, T 10S, R 2E, SLBM		S 223ft W 693ft from N4 cor, Sec 19, T 10S, R 2E, SLBM	2.0000 cfs	3/22/1912
Santaquin City Corporation	51-1347	Underground Water Well & Spring	S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well		S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well	2.520 cfs	1/18/1956
Santaquin City Corporation	a24465	Underground Water Wells (2) & Spring	East Side Well		S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well, East Side Well	2.520 cfs/1824.4230 acft	3/24/2011
Santaquin City Corporation	a39488	Underground Water Wells (3) & Spring	Summit Ridge Well		S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well, East Side Well, Summit Ridge Well	2.520 cfs/1824.4230 acft	9/11/2014
Santaquin City Corporation	51-1348	Underground Water Well	S 4967 ft W 1188 ft from N4 cor, Sec 01, T 10S, R 1E, SLBM			2.480 cfs	1/18/1956
Santaquin City Corporation	a6884	Underground Water Well	Center Street Well	S 4967 ft W 1188 ft from N4 cor, Sec 01, T 10S, R 1E, SLBM	Center Street Well	2.480 cfs	3/30/1972
Santaquin City Corporation	a16256	Underground Water Wells (2)	Cemetary Well		Center Street Well, Cemetary Well	2.480 cfs	3/24/2011
Santaquin City	51-7045	Utah Lake & Jordan River	South Jordan Diversion Dam and Utah Lake Pumping Plant		South Jordan Diversion Dam and Utah Lake Pumping Plant	224.7700 acft	00/00/1870
Santaquin City	a20673	Underground Water Wells (2) existing	Center Street Well & Cemetary Well	South Jordan Diversion Dam and Utah Lake Pumping Plant	Center Street Well, Cemetary Well	127.1000 acft	1/3/1997
Santaquin City	a26290	Underground Water Wells (4; 1 proposed)	Provisional Well & East Side Well		Center Street Well, Cemetary Well, Provisional Well, East Side Well	224.7700 acft	1/28/2002
Santaquin City	a35122	Underground Water Wells (5) existing	Summit Ridge Well		Center Street Well, Cemetary Well, Provisional Well, East Side Well, Summit Ridge Well	224.7700 acft	12/17/2008
Santaquin Special Service District	51-8394	Underground Water Well	N 46 ft W 624 ft from S4 cor, Sec 36, T 9S, R 1E, SLBM		N 46 ft W 624 ft from S4 cor, Sec 36, T 9S, R 1E, SLBM	53.8400 acft	4/26/1955
Santaquin City Corporation	53-1496	Utah Lake & Jordan River	Utah Lake Dam and USBR/MWDSLC Pump Station		Utah Lake Dam and USBR/MWDSLC Pump Station	526.31 ac-ft (as shareholder)	10/27/1908
Santaquin City Corporation	a25719	Underground Water Well	Provisional well	Utah Lake Dam and USBR/MWDSLC Pump Station	Provisional well	526.31 ac-ft (as shareholder)	6/15/2001
Santaquin City Corporation	53-1675	Utah Lake & Jordan River	Turner Dam and Utah Lake Pumping Plant		Turner Dam and Utah Lake Pumping Plant	61.73 acft (as shareholder)	00/00/1877
Santaquin City Corporation	a26452a	Underground Water Well	Summit Ridge Well	Turner Dam and Utah Lake Pumping Plant	Summit Ridge Well	61.73 acft (as shareholder)	3/28/2002

APPENDIX B – Chronology of Individual Water Rights

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Table 3: Water Right Points of Diversion

Rights	Maximum Quantity (acft/year)	Wells						Springs		WRF
		East Side Well: N 993 ft E 974 ft, from W4 Cor, Section 06, T 10S, R 2E, SLBM	Cemetery Well: N 464 ft E 1359 ft from SW Cor, Section 1, T 10S, R 1E, SLBM	Center Street Well: S 2820 ft W 2219 ft from N4 Cor, Section 1, T 10S, R 1E, SLBM	Summit Ridge Well: N 180 ft E 2520 ft from SW Cor, Section 3, T 10S, R 1E, SLBM	Provisional Well: N 902 ft E 842 ft from S4 Cor, Section 10, T 10S, R 1E, SLBM	Santaquin Special Services Well: at N 46 ft W 624 ft from S4 cor, Sec 36, T 9S, R 1E, SLBM	Springs at S 223ft W 693ft from N4 cor, Sec 19, T 10S, R 2E, SLBM	Springs at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM	
51-1013	1448							X		
51-1347	1824.42	X		X	X				X	
51-1348	1795.44		X	X						
51-7045	224.77	X	X	X	X					
51-8394	53.84						X			
53-1496	204.40					X				
53-1675	61.73				X					
NS015	5302.7									X

Culinary (Water from wells and springs for municipal use)										
51-1013	1448							1448		
51-1347	1824.42	1824.42			1824.42				1824.42	
51-1348	1795.44		1795.44		1795.44					
51-7045	224.77	224.77	224.77		224.77					
51-8394	53.84						53.84			
53-1496	204.40					204.4				
53-1675	61.73				61.73					
Total ¹	5612.60	2049.19	2020.21		3844.63	2110.92	429.17	53.84	1448	1824.42
										0

Pressure Irrigation (Water from Water Reclamation Facility)										
NS015	5302.7									5302.7
Total	5302.7	0	0	0	0	0	0	0	0	5302.7

¹ The totals are the maximum that can be accessed from each POD. The total culinary water that can be used is not the sum of the total under each POD, but is only 5612.603 acft/yr.

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Santaquin City
Water Right: 51-1013
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
A4573 Certificate 1238	Appropriation of Appropriate Water	3/22/1912			Certificated	2		Municipal: Jan 1 - Dec 31	Summit Creek and Springs	Santaquin City Corp. & Summit Creek Irrigation	14,600 foot pipeline to be used to carry 2 cfs for domestic and municipal purposes from Jan 1 to Dec 31 from Summit Creek to minimize evaporation and seepage losses. Permitted to consume 1.72 cfs and return 0.28 cfs in the natural	
A4573	Proof of Appropriation	6/11/1921									Water comes from Summit Creek and springs in the bed of Summit Creek. Consuming 1.34 cfs and returning 0.28	
	Deed of Water to Santaquin	12/22/1942				2					Summit Creek Irrigation deeds their right of 0.28 cfs to Town of Santaquin	
	Water User's Claim	10/3/1973						Municipal: Jan 1 - Dec 31 Incidental Irrigation: Apr 1 - Oct 31 Incidental Stockwatering & Domestic: Jan 1 - Dec 31		Santaquin City Corp.	WR 51-1013, 51-1347, and 51-1348 for municipal uses within the corporate limits of Santaquin	
	Spring Survey	10/5/1976									Santaquin waterworks system inspected and spring sources observed. Suggested improvements were given for	
	Request for WR Info from State Engineer	11/15/1993									Water comes from Summit Creek and springs in the bed of Summit Creek. The 0.28 cfs has not been changed or converted to municipal use, so it is still to be used for irrigation.	
Supplemental Group Number 227200	Statement of Sole Supply	4/26/2007									1447.955 ac-ft for municipal water use from WR51-1013, 1824.423 ac-ft for municipal water use from WR51-1347, and 1795.464 ac-ft for municipal water use from R51-1348	

Santaquin City
Water Right: 51-1347
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
A27809	Application to Appropriate	1/18/1956			Certificated	2.52		Municipal	Spring at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well	Santaquin City Corp.	Santaquin City applied for 2.52 cfs of underground water for municipal use.	
A27809	Approval to Appropriate Water	8/7/1956				3					Permitted to divert 3 cfs for municipal purposes and to drill a well.	
	Well Log	10/11/1956									Well work began 6/25/1956 and completed 7/27/1956.	
A27809	Application Approved	12/17/1956									Application was approved and proof of appropriation is due 2/10/1959	
A27809	Extension of Time Requested	1/20/1959									Well, pump, housing, and main connections completed, but changes still need to be made to distribution system and well must be tested. Water from the well still hasn't been able to be fully used, so an extension of 2 years is	
A27809	Extension of Time Granted	1/26/1959									Proof due on 10/31/1962 instead of 2/10/1959.	
A27809	Certificate Issued	10/3/1962									Certificate 6251 issued to allow domestic and municipal use from Jan 1 to Dec 31 each year. Underground water from a 16" diameter well that is 461 feet deep leads into a 8" diameter pipe of 176 feet to the 8" diameter water main. The water is to be used as a supplemental supply for municipal purposes within the corporate limits of Santaquin as well as for domestic purposes outside the corporate limits as specified on the certificate.	
A27809	Proof of Appropriation	10/3/1962				2.52					Water used for municipal purposes from Jan 1 to Dec 31. It comes from a 461 foot deep well fully cased with 16" pipe and 176 feet of 8" pipe.	
A27809	Water Users Claim	10/3/1973	1/18/1956			2.52		Municipal: Jan 1 - Dec 31 Incidental Irrigation: Apr 1 - Oct 31			2.52 cfs for municipal use from Jan 1 to Dec 31. Incidental use for stockwatering and domestic use from Jan 1 to Dec 31. Incidental use for Irrigation from Apr 1 to Oct 31. It claims 51-1347, 51-1348, and 51-1013 for municipal uses within city limits of Santaquin	
A27809	Application for nonuse	4/25/2007				2.52	1824.423				Desired to hold water to meet the reasonable future requirements of the public	
A27809	Approval of Application of nonuse	9/10/2007		8/31/2012							Application approved	
A27809	Application for nonuse	8/21/2012									Desired to hold water to meet the reasonable future requirements of the public	
A27809	Approval of Application of nonuse	10/16/2012		8/31/2019							Application approved	
a4097	Change Application Submitted	2/27/1962			Certificated	5			Spring at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well	Santaquin City Corp.	Supplemental water for Santaquin City from a well from Jan 1 to Dec 31. This change changed the boundaries to include domestic purposes outside of the municipal boundaries as well as within municipal boundaries as well as	
a4097	Application Approved	7/18/1962									Application was approved and work permitted to proceed.	

a9506	Change Application Submitted	5/21/1977			Withdrawn	2.52		Municipal and Domestic: Jan 1- Dec 31	Spring at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well, East Side Well	Santaquin City Corp.	2.52 cfs to come from a spring in Santaquin Canyon and/or the well to supply municipal and domestic use from Jan 1 to Dec 31	
a9506	Protest	8/30/1977									Protest by Summit Creek Irrigation and Canal Co.	
a9506	Change Application Approved	7/31/1979				2.52					State engineer decided that all of the water from Santaquin Canyon belongs to Summit Creek Irrigation and Canal	
											1. There shall be no diversion of water from the spring when the Summit Creek Irrigation and Canal Company is allowing all or part of its water right entitlement to flow out of Santaquin Canyon in the natural stream channel.	
											2. That in accordance with Condition 1, the applicant shall construct its collection and diversion works such that all	
											3. The combined rate of diversion of water at any time under the change application cannot exceed 2.52 cfs.	
											4. In order to ensure that Condition 3 is complied with, the applicant shall install, and maintain in good working	
								5. That the decision of the State Engineer on this change application shall not prejudice his decisions of any future				
a9506	Request for Extension of Time	11/18/1981									Another spring found in the area and need additional time to complete work on it.	
a9506	Approval for Extension of Time	1/26/1982									Extension granted to extend receiving proof to 11/30/1984	
a9506	Request for Extension of Time	11/20/1984									Haven't developed an engineer or contractor or location of the filing	
a9506	Approval for Extension of Time	12/5/1984									Extension granted to extend receiving proof to 11/30/1987	
a9506	Request for Extension of Time	11/30/1987									Work not completed due to lack of funds	
a9506	Approval for Extension of Time	12/14/1987									Extension granted to extend receiving proof to 11/30/1990	
a9506	Request for Extension of Time	11/30/1990									Installation of a totalizing meter not yet installed	
a9506	Approval for Extension of Time	12/7/1990									Extension granted to extend receiving proof to 7/31/1993	
a9506	Proof of Diversion and Use of Water	7/29/1993				2.52						

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
a9506	Withdrawal of Application	10/13/1993			Pending						Withdrew proof of a9506	
a9506	Request for Extension of Time	11/4/1993									Construction under change application not complete	
a9506	Approval for Extension of Time	12/7/1994									Extension granted to extend receiving proof to 11/30/1999	
a9506	Lapsed	1/10/2000									Proof was not submitted, so the application lapsed	
a9506	Special Order for Proof	2/11/2000									Because a 60-day notice was not sent, proof is not due until 4/30/2000	
a9506	Request for Extension of Time	2/15/2000									Need additional growth before proof can be provided	
a9506	Protest	4/18/2000									Protest by Provo River Water Users Association	
a9506	Approval for Extension of Time	1/27/2006		7/31/2009							Extension granted	
t24464	Temporary Change Application Submitted	4/26/2000			Rejected	2.52	1824.423		Spring at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well, East Side Well	Santaquin City Corp.	Identical change to a24465, filed to obtain a drilling permit.	
t24464	Temporary Application Rejected	8/17/2001									Rejected due to the approval of a24465	
a24465	Application Submitted	4/26/2000			Withdrawn	2.52	1824.423	Municipal: Jan 1 - Dec 31	Spring at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well, East Side Well	Santaquin City Corp.	Change from one well and a spring to two wells (East Side Well) for their 2.52 cfs or 1824.423 ac-ft per year for	
a24465	Protest	6/13/2000									Protest by US Bureau of Reclamation	
a24465	Protest	6/19/2000									Protest by Provo River Water Users Association	
a24465	Application Approved	10/12/2000		10/31/2003		2.52	1824.423				Application approved and work permitted to start. Conditions of approval include:	
a24465	Request for Extension of Time	10/29/2003									1. The change application is limited to the diversion of 2.52 cfs from the combination of both wells at any one time.	
											2. At the time when the applicant submits proof of beneficial use on this water right, the applicant shall provide	
											Construction has been completed, but more time is needed to put full flow into service and verify usage for the Proof.	
											Application approved with the following conditions:	
											1. This change application is limited to the diversion of 2.52 cfs or 1824.423 ac-ft per annum from the combination of	
a24465	Application Approved	2/10/2006									2. The applicant shall install permanent measuring devices on all proposed sources; monthly records must be kept of the amount of water diverted under this change. Inasmuch as this application seeks to divert water from numerous points of diversion, it is necessary that detailed information be provided to the State Engineer to show which sources of supply are actually developed and used and the extent of their usage under this application. Upon the submission of proof the applicant must identify every source of water used under this application and the amount of water used from that source. The proof must also show the capacity of the sources of supply and demonstrate that each source can provide the water claimed to be diverted under this right as well as all other water rights which may be approved to be diverted from those sources.	The application and the Order of the State Engineer misstate the size and depth of the Eastside well (16-inch well, 300 - 700 feet deep) from that which actually exists.
a24465	Lapsed	3/15/2011									3. At the time when the applicant submits proof of beneficial use, the applicant shall also provide evidence of the total amount of water in ac-ft that has been diverted from all three sources and that amount shall be the limits which will be placed on the certificate, not to exceed 1,824.423 ac-ft.	
a24465	Request for Extension of Time	3/9/2011									Application lapsed	
a24465	Reinstated	3/31/2011									Extension requested to coordinate spring usage with the wells and document the use.	
a24465	Approval for Time Extension	6/1/2011		10/31/2014							Reinstated until extension request is addressed	
											Extension for time granted	
a39488	Application for Permanent Change of Water	1/7/2014			Approved	2.52	1824.423	Municipal use	Spring at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM & Center Street Well, East Side Well, Summit Ridge Well	Santaquin City Corp.	Adding an existing well to the current points of diversion.	
a39488	Application Approval	9/11/2014		9/30/2019		2.52	1824.423	Year-round municipal use			An additional well added (Summit Ridge Well). The application is approved with the following conditions:	
											1. This change application is limited to the annual diversion of 2.52 cfs or 1824.423 ac-ft of water to be used for year-	
											2. The applicants shall install and maintain measuring and totalizing recording devices to meter all water diverted	
											3. Whereas this Change Application has been filed to entirely replace and superseded prior approved Change	
											4. Inasmuch as this application seeks to divert water from numerous points of diversion, it is necessary that detailed information be provided to the State Engineer to show which sources of supply are actually developed and used and the extent of their usage under this application. Upon the submission of proof as required by Section 73-3-16, Utah Code, for this application, the applicant must identify every source of water used under this application and the amount of water from that source. The proof must also show the capacity of the sources of supply and demonstrate	Water capture from the spring (at S 3222 ft E 449 ft from N4 cor, Sec 13, T 10S, R 1E, SLBM) needs to be reestablished in preparation of proving beneficial use.

Santaquin City
Water Right: 51-1348
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
A27810	Application to Appropriate	1/18/1956			In use	5			Well at S 4967 ft W 1188 ft from N4 cor, Sec 01, T 10S, R 1E,	Santaquin City	Water to be used for municipal uses for Santaquin City	
A27810	Application Approved	11/29/1956		1/25/1959							Application approved and permission to drill well given.	
A27810	Request for Extension for Proof deadline	1/21/1959									Expect well will be needed in the next 5 years based on demand conditions.	
A27810	Proof Deadline Extended	1/26/1959		10/31/1961							Proof due date extended from Jan 25, 1959.	
A27810	Request for Extension for Proof deadline	10/31/1961									Well hasn't been drilled yet, so hasn't been put to beneficial use.	
A27810	Proof Deadline Extended	2/27/1962		10/31/1965							Proof due date extended from October 31,1961	
A27810	Request for Extension for Proof deadline	10/29/1965										

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
A27810	Proof Deadline Extended	2/21/1966		10/31/1969	Not				SLBM		Proof due date extended from October 31, 1965	
A27810	Request for Extension for Proof deadline	10/27/1969		10/31/1969								
A27810	Proof Deadline Extended	10/30/1969		11/29/1970							Proof due date extended from October 31,1969	
A27810	Proof of Appropriation of Water	11/12/1970				2.48		Municipal Jan 1 - Dec 31			2.48 cfs to be used for municipal use from Jan 1 to Dec 31. The original 5.0 cfs is split between a27809 (2.52 cfs) and a27810.	
A27810	Application for Nonuse of Water	4/26/2007				2.48					Water last beneficially used on 9/30/2006 and it is now being held to meet the reasonable future requirements of the public.	
A27810	Approval of Application for Nonuse	7/25/2007		7/31/2012							Application for nonuse approved.	
a6884	Change Application	3/30/1972			Certificated	2.48			Center Street Well	Santaquin City	Change the point of diversion for that part of the right that has been developed in Santaquin City's well.	
a6884	Change Application Approved	7/26/1972										
a6884	Certificate of Appropriation of Water	7/31/1972	1/18/1956			2.48		Municipal Jan 1 - Dec 31			Certificate 9073 issued for municipal water use within the corporate limits of Santaquin City (Jan 1 to Dec 31) from a 16" well that is 461 feet deep.	
a6884	Water Users Claim	10/3/1973				2.48					Water for municipal use within Santaquin City and for other purposes incidentally.	
a16256	Application for Permanent Change of Water	7/8/1991			Approved	2.48			Center Street Well, Cemetery Well	Santaquin City	The production of the existing well has diminished, so a second well is needed to obtain the applications full water entitlement. (Cemetery Well)	
a16256	Approval Letter	10/3/1991				2.48					Permission to drill new well	
a16256	Application approved	1/24/1992										
a16256	Well drilled	4/29/1992									Well drilled to serve Santaquin City and report filed.	
a16256	Application approved	7/26/2001										
a16256	Request for Extension for Proof deadline	1/25/2006									Storage tank has been constructed, but time is needed to complete work, place water in beneficial use, and submit proof.	
a16256	Protest	2/28/2006									Protest by Warm Springs Irrigation Company	
a16256	Proof Deadline Extended	7/28/2006		1/31/2011							Proof due date extended from Jan 31, 2006	
a16256	Application Lapsed	2/15/2011									Application lapsed.	
a16256	Request for Extension for Proof deadline	3/9/2011									Water is in nonuse status and is due to be renewed in 2012.	
a16256	Reinstated	3/28/2011									Application reinstated	
a16256	Proof Deadline Extended	7/6/2011		1/31/2021							Wells in nonuse status and deadline extended.	

Santaquin City
Water Right: 51-5162
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
A54218	Application to appropriate	1/31/1980			Withdrawn	0.217		Municipal and Industrial: Jan 1 - Dec 31 Irrigation: Apr 1 - Oct 31	Willow Springs in Santaquin Canyon	Summit Creek Irrigation and Canal Company and Utah Power and Light Company	0.217 cfs is to be used for Municipal and Industrial uses from Jan 1 to Dec 31 and Irrigation from Apr 1 to Oct 31. The water comes from Willow Springs in Santaquin Canyon. It is claimed that Summit Creek Irrigation and Canal	
A54218	Protest	3/3/1980									Protest by Kennecott Copper Corporation	
A54218	Protest	4/15/1980									Protest by Summit Creek Irrigation Canal Company	
A54218	Request to Withdraw	9/30/2004									Mayor of Santaquin requested to withdraw the application	
A54218	Application Withdrawn	10/6/2004									State Engineer ordered that the application be withdrawn	

Santaquin City
Water Right: 51-5163
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
A54219	Application to Appropriate water	1/31/1980			Withdrawn	1.7		Municipal, Industrial, Stockwater: Mar 1 - Nov 30 Irrigation: Apr 1 - Oct 31	Springs in Santaquin Canyon	Summit Creek Irrigation and Canal Company	Water to be used for municipal, industrial, and stockwater from Mar 1 to Nov 30 and for irrigation from Apr 1 to Oct 31. The water is to come from springs and seeps in Santaquin Canyon. This water was abandoned since 1970 by the Summit Creek Irrigation and Canal Company as issued by certificate 735. If it is unfeasible to develop water from	
A54219	Protest	3/3/1980									Protest by Kennecott Copper Corporation	
A54219	Protest	4/15/1980									Protest by Summit Creek Irrigation Canal Company	
A54219	Request to Withdraw	9/30/2004									City requests to withdraw their request	
A54219	State Engineer Withdraws Request	10/6/2004									State Engineer canceled and withdrew the request	

Santaquin City
Water Right: 51-7045
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right (ac-ft)	Santaquin's Share (ac-ft)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
51-7045	Statement of Ownership Segregation	1/3/1997	1870				224.77		Irrigation: Apr 1 - Oct 31	South Jordan Diversion Dam and Utah Lake Pumping Plant	Santaquin City & South Jordan Canal Company	Water right separated from 59-3500 (based on 45.5 shares of South Jordan Canal Company Stock). The source of water is from Utah Lake and the Jordan River through the South Jordan Canal. The water is stored in Utah Lake. From April 1 to October 31, 44.954 acres are irrigated.	
a20673	Change Application	1/3/1997					224.77		Municipal: Jan 1 - Dec 31			Water to come from two existing wells and to be for municipal use from Jan 1 to Dec 31.	

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes		Implications
a20673	Protest	2/10/1997			Withdrawn					Center Street Well, Cemetery Well	Santaquin City & South Jordan Canal Company	Protest by Provo River Water Users Association	
a20673	Protest	2/11/1997										Protest by US Bureau of Reclamation	
												Water to come from two existing wells and to be for municipal use. Approved subject to following conditions:	
												1. In order to balance the historic and proposed depletion of water under this change, the applicants can <i>divert 127.10 ac-ft</i> under this filing. The applicants shall install permanent totalizing meters on the well and the drain to measure all water diverted and shall <i>keep at least monthly records of all water diverted</i> . The meters and the records shall be made available to the State Engineer or the duly appointed river commissioner at all reasonable times in regulating this change.	
												2. The South Jordan Irrigation Company diversion from the Jordan River shall be reduced by 224.77 ac-ft annually.	
												3. The River Commissioner shall divert from Utah Lake 129.47 ac-ft of water annually and allow that amount of water to bypass the South Jordan Irrigation Company diversion and be available to the downstream users.	
a20673	Change Application Approved	7/23/1997		11/30/2000								4. This change application shall be under the direction of the duly appointed river commissioner for the Upper Jordan River. <i>The applicants shall provide the diversion measurement required above to the river commissioner annually</i> . Payment of any costs for the river commissioner's time shall be the responsibility of the applicants.	
												5. Should Santaquin City decide to utilize this change application <i>strictly for irrigation</i> , the amount of <i>land that can be irrigated is 45.17 acres</i> .	
												6. Upon submittal of proof of change, the applicants shall provide evidence that the above conditions have been met and that the historic 44.95 acres of irrigation under the South Jordan Irrigation Company have been taken out of active cultivation along with all other information required at the time of proof. The applicants shall further submit evidence that no more than 95.30 ac-ft of water have been depleted under this change application by the city's use of the water. Should reuse of this water be contemplated, 34.17 ac-ft of water must be delivered to Utah Lake annually for this change application to balance the historic and proposed uses' effect on the system.	
												7. This change application shall be <i>valid only when utilized by and for Santaquin City</i> . No municipal use is implied or granted by this application for any use in any of Santaquin City's facilities by another party. Should Santaquin City withdraw its support of this application, this approval shall be considered void.	
a20673	Request for Proof Extension of Time	11/9/2000										Waiting for growth to increase to fully utilize water right.	
a20673	Approval of Extension of Time	7/19/2001		7/31/2005								Extension of time given	
a26290	Application for Change of Water	1/28/2002			Amended by Subsequent Change		224.77			Center Street Well, Cemetery Well, Provisional Well, East Side Well	Santaquin City & South Jordan Canal Company	Use three existing and one proposed well. Replace a20673.	
a26290	Protest	3/11/2002										Protest by PacifiCorp	
												Use 4 wells. Approved subject to following conditions:	
												1. The applicants shall install permanent totalizing meters on the wells to measure all of the water produced from them in order to ensure water use does not exceed water entitlement. Furthermore, the applicants shall maintain at least monthly records of all water diverted from the wells and these records and the meters shall be made available to the State Engineer/his representative and the duly appointed river commissioner at all reasonable times in regulating this change application.	
												2. <i>Total annual diversion is limited to 224.77 ac-ft</i> . The <i>total annual depletion</i> from the local hydrologic regimen pursuant to this change <i>shall not exceed 95.29 ac-ft</i> .	
												3. This change application shall be valid only when utilized by and for Santaquin City. No municipal use is implied or granted by this application for use in any of Santaquin City's facilities by another party other than the City. Should Santaquin withdraw its support of the application, this approval shall be considered void.	
												4. South Jordan Canal Company's diversion of water from the Jordan River shall be reduced by 224.77 ac-ft.	
												5. The Utah Lake and Jordan River Commissioner shall keep in storage in Utah Lake 129.48 ac-ft annually. This storage cannot be allowed to be carried over from year to year due to high evaporation in Utah Lake. If any water right holder can demonstrate to the satisfaction of the State Engineer that impairment has occurred due to this change application, the State Engineer will instruct the river commissioner to release said water to alleviate the problem	
												6. Any additional costs incurred by the Utah Lake and Jordan River Commissioner in the administration of the change application shall be borne by the applicants. The amount of such costs shall be determined by the Commissioner an/or the State Engineer.	
												7. Proof of Beneficial Use of Water under the change application shall include copies of the meter readings, evidence that Condition Number Two has been met and confirmation that the 44.95 acres formerly irrigated are no longer having water applied.	
a26290	Request for Proof Extension of Time	11/13/2007										Waiting for new application to be approved.	
a26290	Approval of Extension of Time	4/2/2009		12/31/2016									
a31014	Application for Change of Water	2/1/2006			awn		224.77				Santaquin City & South Jordan	Change from surface diversion (Associated Canal Companies Pumping Plant) to underground diversion (well)	
a31014	Protest	3/15/2006										Protest by PacifiCorp	

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes		Implications			
a31014	Request to Withdraw Application	11/17/2008			Withdr					Santaquin City & South Jordan Canal Company	City requested to withdraw this application.					
a31014	State Engineer Withdraws Application	1/6/2009									State Engineer withdrew the application.					
t31016	Application for Temporary Change of Water	2/1/2006			Lapsed		224.77			Santaquin City & South Jordan Canal Company	Change from surface diversion (Associated Canal Companies Pumping Plant) to underground diversion (well)					
t31016	Approval for Temporary Change of Water	2/13/2006									Temporary Change application approved and it expires 2/13/2007.					
a35122	Change Application	12/17/2008			Approved					Center Street Well, Cemetary Well, Provisional Well, East Side Well, Summit Ridge Well	Santaquin City & South Jordan Canal Company	Add an additional well.				
a35122	Protest	1/12/2009										Protest by New State, Inc.				
a35122	Protest	1/23/2009										Protest by Bill & Vickie Stansfield				
a35122	Protest	2/2/2009										Protest by Warm Springs Irrigation C.				
a35122	Application Approved	5/5/2009		12/31/2016			244.77	244.77							Add an additional well. Approved with following conditions: 1. The diversion of water under this application is limited such that depletion may not exceed 95.29 ac-ft. Under no circumstances is the diversion to exceed 224.77 ac-ft. <u>The applicant must maintain records of use sufficient to demonstrate depletion from uses under this change application is limited to 95.29 ac-ft.</u>	
															2. <u>The 45.5 shares of stock in t he South Jordan Canal Company</u> must remain dedicated to this application and <u>maintained in good standing by the Santaquin City.</u> If the stock is not held in the name of Santaquin City, this application is invalid.	Santaquin City must pay the annual assessment for said water shares to South Jordan Canal Company.
															3. All diversions of water under this application shall be made under the direction of the Utah Lake/Jordan River Commissioner. Any additional expenses incurred by the commissioner in distributing water under this application shall be borne by the applicant.	
															4. South Jordan Canal Company's diversion of water from the Jordan River shall be reduced by 224.77 ac-ft. The Utah Lake and Jordan River Commissioner shall <u>keep in Utah Lake 129.48 ac-ft annually</u> . This storage cannot carry over from year to year due to high evaporation in Utah Lake. If <u>any water right holder can demonstrate to the satisfaction of the State Engineer that impairment has occurred due to this change application, the State Engineer will instruct the river commissioner to release said water to alleviate the problem.</u>	
															5. Inasmuch as this application seeks to divert water from numerous points of diversion, it is necessary that detailed information be provided to the State Engineer to show which sources of supply are actually developed and used and the extent of their usage under this application. Upon the submission of proof as required by Section 73-3-16, Utah Code, for this application, <u>the applicants must identify every source of water used under this application and the amount of water used from that source. The proof must also show the capacity of the sources of supply and demonstrate that each source can provide the water claimed to be diverted under this right as well as all other water rights which may be approved to be diverted from those sources.</u>	Keep accurate records of each of the water sources (5 wells) to demonstrate that all of the rights in those wells are being beneficially used. Identify the pumping capacity of each of the wells. Since the East Side well has water quality problems, its use is limited to the pressure irrigation system.
															6. Each source developed under this application must be individually metered and the diversions of water reported at least annually under the Utah Water Use Program.	
															7. This Permanent Change Application amends Permanent Change Application 51-745 (a26290) and, therefore, must inherit the proof date of the parent, which is <u>December 31, 2016</u> , the end of the 14-year period.	

Santaquin Special Service District
Water Right: 51-8394
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right (ac-ft)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications		
A26479	Segregate Water Right	9/14/2009	4/26/1955		Certificate		53.84	Irrigation: May 1 - Oct 31	Well at N 46 ft W 624 ft from S4 cor, Sec 36, T 9S, R 1E, SLBM	Teakwood Ablestone, Inc.	Segregate water right from 51-1323 to Teakwood Ablestone, Inc.. Water from underground well for irrigation of 13.46 acres from May 1 to Oct 31).			
A26479	Warranty Deed	11/16/2009							Santaquin Special Service District	Teakwood Ablestone, Inc. conveyed and warranted WR 51-8394 to Santaquin Special Service District				
a36078	Change Application	11/17/2009			Approved		53.84	Municipal: Jan 1 - Dec 31	Well at N 46 ft W 624 ft from S4 cor, Sec 36, T 9S, R 1E, SLBM	Santaquin Special Service District	Water use is to be changed from irrigation to municipal use from Jan 1 to Dec 31.			
a36078	Protest	12/31/2009									Protest by US Bureau of Reclamation			
a36078	Approval of Change Application	2/1/2010		2/28/2015			53.84				Water use changed to municipal use from irrigation. This has been approved with the following conditions:			
											1. The diversion of water under this application is limited such that depletion may not exceed 29.186 ac-ft. Under no circumstances is diversion to exceed 53.84 ac-ft. The applicants must maintain records of use sufficient to demonstrate the depletion of water associated with the use under this application does not exceed the specified depletion limit.			
											2. To accommodate the approval of this permanent change application, the use of 53.84 ac-ft water for the irrigation			
										3. The applicant not predecessors-in-interest to this right have claim to supplemental shares of stock from Summit				
											4. The applicants are required to install a meter and maintain accurate diversion records from the source. These records are to be submitted on an annual basis to the Water Use Program of the Division of Water Rights.			

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
											5. All wells used as public water supply wells are regulated by the Utah Division of Drinking Water. Plans for the construction of new wells must be reviewed and approved by the Division of Drinking Water prior to any drilling or construction activity being commenced. The approval of this water right application does not constitute approval of the well for use as a public water supply by the Division of Drinking Water. Applicants are advised to contact the Division of Drinking Water at (801) 536-4200 to review applicable standards and for information about approval of a source of supply for public use.	The well to which this water right is associated could be connected to the pressure irrigation system. It would likely require changing the pump in the well or the construction of a booster pump facility.

Santaquin City
Water Right: 53-1496
Chronology of Action

WR #		Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cuffs)	Max Annual Right (ac-ft.)	Santaquin's Share (ac-ft.)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications	
53-1496 A2136		WR Filed		10/27/1908		Certificated		807.38		Irrigation: Apr 1 - Oct 31 to irrigate 161.476 acres	Utah Lake Dam and USBR/MWDSLC Pump Station	E. Johnson, Santaquin City Corporation, State of Utah Board of Water Resources, Utah Lake Distributing Company	Per the WR "This right has a share ownership in the Water Company Listed below" (listed on the WR). 158 Shares owned in Utah Lake Distribution Company		
													Currently Santaquin City has been conveyed 103 (65.2%) of the 158 Shares in ULDC, per recorded dedication & assignment and ULDC records (no record of stock certificates (40 shares) transferred to the City, this should be done at some point) (see 2009 Reports of Conveyance below)		
													Owners listed on the water right (and Change Application): Evan Johnson (shareholder); Santaquin City (Shareholder); State of Utah Board of Water Resources; Utah Lake Distribution Company (ULDC)		
00-51-006-P		Application for Provisional Well	8/15/2000								Well History Info for Provisional Well and Summit Ridge Well				
		Permission for Provisional Well	9/19/2000										Stephen E. Snowby, P.E. submitted application for test well south of SCIC reservoir #2 (This is NOT the SR Well location)		
		Extension of time	5/4/2001										WR grants permission to drill provisional well (expires 3/19/01) (This IS NOT the SR Well location)		
		Test Well Drilled	4/15/02 thru 5/15/02										WR grants extension of time to drill provisional well (expires 11/1/01) (This is NOT the SR Well location)		
														Test well drilled south of SCIC reservoir #2 (This is NOT the SR Well location)	
02-51-003-P		Application for Provisional Well	3/20/2002										Stephen E. Snowby, P.E. submitted application for test well at the actual location of the SR Well		
		Permission for Provisional Well	3/21/2002										WR grants permission to drill provisional well (expires 9/1/02) (This <u>is</u> the SR Well)		
		Test Well Drilled	4/3/02 thru 4/24/02											Test well drilled at the actual location of the SR Well	
Both wells were applied for by the same engineer & drilled by the same drilling company, apparently one right after the other. This may have caused the confusion where WR POD's were concerned.															

a25719	Agreement	6/14/2001			ed					E. Johnson, Santaquin City Corporation (63 shares), State of Utah Board of Water Resources, Utah Lake Distributing Company	Change Application Approval Agreement between Evan Johnson and ULDC Per the above agreement, "... the right to divert water under the change application is conditioned on the ownership of the underlying shares of stock in ULDC that support the change."	
a25719	Change Application Filed	6/15/2001									Change Application submitted to change: Point of Diversion (POD); Place of Use; Nature of Use Change Application Filed by: Evan Johnson; Santaquin City; State of Utah Board of Water Resources; Utah Lake Distribution Company (ULDC)	
a25719	Protest	7/20/2001									PacifiCorp Protest to Change Application	
	Protest	7/16/2001									USBR Protest to Change Application	
	Protest	7/12/2001									New State Inc. Protest to Change Application	
	Reply to Protest	7/18/2001									Evan Johnson reply to New State Inc. protest	
a25719	Order of State Engineer (Approval)	9/7/2001	6/15/2001	9/30/2004			807.35	321.92	Municipal		POD changed from Jordan River & Utah Lake to test well in Santaquin (Not the SR Well). Place of Use changed to Santaquin City. Nature of Use changed from irrigation to Municipal. Approved with following conditions:	
											1. Limited Diversion to 807.35 & Depletion to 342.3 acre-feet annually	
											2. "The balance of the water or 465.05 acre-feet of water shall be available in Utah Lake for replacement to impaired parties on the Jordan River. IF impaired parties can provide information sufficient to satisfy the Sate Engineer that their rights have been impaired by this Change Application the 465.05 acre-feet will be made available to downstream water users. This 465.05 acre-feet cannot be carried over from year to year and will be unavailable after the end of the irrigation season...."	This stipulation is an example of why this type of WR (shares in a dist company) is not necessarily the best type of WR for Santaquin now nor for the City to accept in the future. Discuss recent WR hearing concerning farmers, Elk Ridge & developers.
											3. Well must be metered and at least monthly records kept for water diverted from well. Make records available to State Engineer.	
									4. At time of proof, provide evidence that 161.47 acres where water has been historically used is no longer being irrigated	The location of the 161.47 acres needs to be identified and verification made that it is no longer irrigated.		

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes		Implications
	Santaquin City obtains 63 ULDC shares	11/19/2001			Approv					Provisional Well		Per ULDC (1-28-14), Santaquin City Stock certificate # 3959 for 63 shares in ULDC was created on November 19, 2001 (63 shares representing 321.93 ac-ft.). Ownership transferred from Evan Johnson to Santaquin City.	
a25719	State Eng Opinion	9/22/2003										State Regional Engineer offered opinion on return flow options	
	Amendment	10/1/2003										Amendment to agreement changing wording on return flow & carrier water (PP 5 changed)	
a25719	Time Extension Request	9/15/2004										Extension of time requested by Santaquin City for proof of WR	
	Order of State Engineer (Approval)	12/9/2004		9/30/2007								Time extension granted for proof of WR	
	Report of Conveyance (ROC) of WR	5/19/2005									KBS Holdings L.L.C., Santaquin City Corporation (63 shares), State of Utah Board of Water Resources, Utah Lake Distributing Company, E. Johnson	Water Right Conveyance (ROC) of 40/158ths (40 shares representing 204.4 ac-ft.) of ULDC shares from Evan Johnson and John P. Harr to KBS Holdings (Summit Ridge Communities, LLC) (includes: stock certificate transfers, Summary showing chain of title & Confirmatory Quitclaim Deed & Assignment)	
												According to the above ROC documents: the sale of these 40 stock shares from Evan Johnson & John P. Harr are dated 12/20/01. The Quitclaim Deed was recorded at the Utah County Recorders office on 3/15/05.	
	WR Ownership	5/25/2005										Map from above ROC still showing test well (NOT SR Well location)	
a25719	Time Extension Request	8/22/2007										KBS Holdings was added as an owner for WR 53-1496 (now 5 owners)	
	Correspondence from State Engineer	8/28/2007										Extension of time requested by Santaquin City for proof of WR	
	Order of State Engineer (Approval)	10/31/2007		9/30/2012								Extension request returned from WR to Santaquin City due to no payment included with Time Extension Request	
	Report of Conveyance (ROC) of WR	1/21/2009								E. Johnson, Santaquin City Corporation (103 shares), State of Utah Board of Water Resources, Utah Lake Distributing Company		Water Right Conveyance (ROC) of 40/158ths (40 shares representing 204.4 ac-ft.) of ULDC shares from KBS Holdings (Summit Ridge Communities, LLC) to Santaquin City Corporation (includes: Summary showing chain of title & attachments (2) to agreement for transfer of WR)	
												Above agreement includes: dedication of 40/158ths of ULDC Shares AND 25/49ths of East Jordan Irrigation Company Stock under WR # 53-1507 & Change Application a26452 for 121 ac-ft. (not included in WR 53-1496)	
												Above agreement includes: dedication of SR Tank and property and SR Well and property.	Discuss with City Water Credits and credit for SR Tank & SR Well & properties
	WR Ownership	1/22/2009										WR 53-1496 (now back to 4 owners) (KBS Holdings no longer listed as an owner)	
	Time Extension Request	9/20/2012										Extension of time requested by Santaquin City for proof of WR	
	Order of State Engineer (Approval)	2/5/2013		9/30/2015			807.35	526.31	Summary Spreadsheet says they only have 204.4 ac-ft. as shareholder			Time extension granted for proof of WR	

Santaquin City
Water Right: 53-1675
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right (ac-ft)	Santaquin's Share (ac-ft)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
53-1675	Ask to Segregate Santaquin City Portion of WR 53-1507	3/16/2009					121	61.7	Irrigation of 30.25 acres April 1 to October 31	Turner Dam and Utah Lake Pumping Plant	East Jordan Irrigation Company, Santaquin City Corporation (49 shares but only has record of 25 of them)	Ask to have their portion of WR 53-1507 segregated (121 ac-ft) from East Jordan Irrigation Company	Verify shares owned by Santaquin City with East Jordan Irrigation Company.
a26452	Change Segregation	3/28/2002			Approved		121.0	61.7	Irrigation of 30.25 acres April 1 to October 31	Summit Ridge Well	East Jordan Irrigation Company, Santaquin City Corporation (49 shares but only has record of 25 of them)	Water to come from an underground well instead of from the Jordan River and Utah Lake. The places of use also changed	
a26452	Request for Proof Extension of Time	1/8/2010										Still needing to verify full beneficial use.	
a26452	Approval of Extension of Time	3/19/2010		1/31/2017			121	61.7	Irrigation of 30.25 acres April 1 to October 31			Proof due date changed from 1/31/2010	

Santaquin City
Water Right: NS015
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right (ac-ft.)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
NS015	Application for Water Reuse	12/18/2008			Approved	7	1032.2		Treatment Plant	Santaquin City	Application for water reuse submitted	
NS015	Protest	5/26/2009									Protest by US Bureau of Reclamation	
											Approved and subject to following conditions:	
NS015	Approval by State Engineer	10/20/2009				Diversion: 6099.9 Depletion: 5302.7 <small>(Error on the website Depletion for WR 51-1013 according to Order of State Engineer)</small>					1. The amount of sewage effluent that may be annually reused under this application is limited to the amount of water actually diverted under Water Right Numbers 51-1013, 51-1347, 51-1348, 51-7045, and 53-1496 to a maximum of 6,099.9 ac-ft. The amount of depletion associated with use and reuse of the water diverted must not exceed 5,302.7 ac-ft.	
											2. The applicant shall install and maintain measuring and recording devices to meter all water diverted under water rights identified in the reuse application and all water reused under this application and shall annually report this data to the Division of Water Rights Water Use Data Program. In addition, information necessary to determine the amount of water available to reuse considering depletion associated with use shall be recorded and be kept monthly and reported annually to the State Engineer.	

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WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
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Santaquin City
Water Right: RC007
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right (ac-ft)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
RC007	Application for Groundwater Recharge Permit	12/19/2013					5302.0			Santaquin City Corporation	Using aquifer storage and recovery. Source: Type 1 wastewater effluent from Santaquin's WRF. Quality of receiving water: Utah Ground Water Classification of Class II.	
RC007	Protest	2/24/2014									Protest by US Bureau of Reclamation	
RC007	Protest	2/25/2014									Protest by Central Utah Water Conservancy District	
RC007	Protest	2/25/2014									Protest by Provo River Water Users Association	

Santaquin City
Water Right: RC007-001
Chronology of Action

WR #	Action	Date of Action	Priority Date	Proof Date	Status	Flow Right (cfs)	Max Annual Right (ac-ft)	Restrictions	Current Points of Diversion	Ownership	Notes	Implications
RC007-001	Groundwater Recovery Permit	12/30/2013					5302			Santaquin City Corporation	Water to be for municipal use throughout the entire year. An existing city well will be used for water recovery.	
RC007-001	Protest	2/24/2014									Protest by US Bureau of Reclamation	
RC007-001	Protest	2/25/2014									Protest by Central Utah Water Conservancy District	
RC007-001	Protest	4/22/2014									Protest by Provo River Water Users Association	

APPENDIX C – Culinary and Pressure Irrigation Sources and Demands

Changes made 1/16/2015:

1. Culinary water use in 2013 was changed from 1949 ac-ft/yr to 1349 ac-ft/yr. The value of 1949 ac-ft/yr was the 2013 reported use from the culinary system for both culinary and irrigation water. The change to 1349 ac-ft/yr reflects the amount of culinary use after the removal of the water supplied to the irrigation system in the previous column (600.22 ac-ft/yr) from the total use from the culinary system (1949 ac-ft/yr).
2. Label of quantity required column for outdoor water changed from ac-ft/irrigable acre/yr to ac-ft/yr.

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Santaquin Growth Projections						Indoor Water (Culinary)														
Year	Population	Average Annual Growth Rate	Additional Persons/Yr	Culinary Water System ERCs (Starting from Master Plan)	Pressure Irrigation System ERCs (Starting from Master Plan)	Irrigated Acreage	Quantity Required				Sources Quantity ¹									
							Genola Town	Supplied to Irrigation System	Culinary Use	Total Required (Genola Town + Irrigation + Culinary Use)	Quantity of Rights Held	Maximum Source Capacity	Water Use	Springs	Wells					
															Cemetery	Center Street (used for Pressure Irrigation)	East Side (not culinary quality)	Summit Ridge	West Side 1 (constructed at 6654 ERCs)	West Side 2 (constructed at 10623 ERCs)
at 0.25 acres/ERC	at 100 gpm	at 400 (gal/ERC/day) (average day)		(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)					
(acres)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)				
2010	9,128	4.23%																		
2011	9,514	1.62%	386				161	443.47			5612.60	6748	1920	1429	119.7	116.5	254.7			
2012	9,668	1.81%	154				161	661.01			5612.60	6748	2085	1253	288.2	25.2	518.1			
2013	9,843	8.28%	175	3,123	2,363	591	161	600.22	1349	2110	5612.60	6748	2150	1387	245.2		517.8			
2014	10,658	8.28%	815	3,332	2,568	642	161	596.64	1493	2251	5612.60	6748		1448	1065	0	4236			
2015	11,540	8.28%	882	3,558	2,790	697	161	600	1594	2356	5612.60	6748		1448	1065	0	4236			
2016	12,496	8.28%	956	3,803	3,030	757	161	600	1704	2466	5612.60	6748		1448	1065	0	4236			
2017	13,531	8.28%	1,035	4,069	3,290	822	161	600	1823	2584	5612.60	6748		1448	1065	0	4236			
2018	14,651	8.28%	1,120	4,356	3,571	893	161	600	1952	2713	5612.60	6748		1448	1065	0	4236			
2019	15,864	8.28%	1,213	4,667	3,876	969	161		2091	2252	5612.60	6748		1448	1065	0	4236			
2020	17,178	8.28%	1,314	5,004	4,206	1,052	161		2242	2403	5612.60	6748		1448	1065	0	4236			
2021	17,815	3.71%	637	5,167	4,366	1,092	161		2315	2477	5612.60	6748		1448	1065	0	4236			
2022	18,476	3.71%	661	5,337	4,532	1,133	161		2391	2553	5612.60	6748		1448	1065	0	4236			
2023	19,161	3.71%	685	5,512	4,705	1,176	161		2470	2631	5612.60	6748		1448	1065	0	4236			
2024	19,872	3.71%	711	5,695	4,883	1,221	161		2552	2713	5612.60	6748		1448	1065	0	4236			
2025	20,610	3.71%	737	5,884	5,069	1,267	161	2	2636	2800	5612.60	6748		1448	1065	0	4236			
2026	21,374	3.71%	765	6,080	5,261	1,315	161	4	2724	2889	5612.60	6748		1448	1065	0	4236			
2027	22,167	3.71%	793	6,283	5,460	1,365	161	6	2815	2983	5612.60	6748		1448	1065	0	4236			
2028	22,990	3.71%	822	6,494	5,667	1,417	161	8	2910	3079	5612.60	6748		1448	1065	0	4236			
2029	23,842	3.71%	853	6,713	5,881	1,470	161	10	3008	3179	5612.60	10199		1448	1065	0	4236			
2030	24,727	3.71%	885	6,939	6,103	1,526	161	10	3109	3281	5612.60	10199		1448	1065	0	4236			
2031	25,481	3.05%	754	7,133	6,293	1,573	161	10	3196	3367	5612.60	10199		1448	1065	0	4236			
2032	26,258	3.05%	777	7,332	6,488	1,622	161	10	3285	3457	5612.60	10199		1448	1065	0	4236			
2033	27,059	3.05%	801	7,537	6,689	1,672	161	10	3377	3549	5612.60	10199		1448	1065	0	4236			
2034	27,885	3.05%	825	7,749	6,897	1,724	161	10	3472	3643	5612.60	10199		1448	1065	0	4236			
2035	28,735	3.05%	850	7,967	7,111	1,778	161	10	3570	3741	5612.60	10199		1448	1065	0	4236			
2036	29,611	3.05%	876	8,192	7,331	1,833	161	10	3671	3842	5612.60	10199		1448	1065	0	4236			
2037	30,515	3.05%	903	8,423	7,558	1,889	161	10	3774	3946	5612.60	10199		1448	1065	0	4236			
2038	31,445	3.05%	931	8,662	7,792	1,948	161	10	3881	4052	5612.60	10199		1448	1065	0	4236			
2039	32,404	3.05%	959	8,908	8,033	2,008	161	10	3992	4163	5612.60	10199		1448	1065	0	4236			
2040	33,393	3.05%	988	9,161	8,281	2,070	161	10	4105	4276	5612.60	10199		1448	1065	0	4236			
2041	34,030	1.91%	638	9,325	8,441	2,110	161	10	4178	4350	5612.60	10199		1448	1065	0	4236			
2042	34,680	1.91%	650	9,492	8,605	2,151	161	10	4253	4424	5612.60	10199		1448	1065	0	4236			
2043	35,343	1.91%	662	9,661	8,771	2,193	161	10	4329	4500	5612.60	10199		1448	1065	0	4236			
2044	36,018	1.91%	675	9,835	8,941	2,235	161	10	4407	4578	5612.60	13651		1448	1065	0	4236			
2045	36,706	1.91%	688	10,011	9,114	2,278	161	66	4486	4714	5612.60	13651		1448	1065	0	4236			
2046	37,407	1.91%	701	10,191	9,290	2,322	161	123	4566	4851	5612.60	13651		1448	1065	0	4236			
2047	38,121	1.91%	714	10,374	9,469	2,367	161	180	4648	4990	5612.60	13651		1448	1065	0	4236			
2048	38,850	1.91%	728	10,561	9,652	2,413	161	236	4732	5130	5612.60	13651		1448	1065	0	4236			
2049	39,592	1.91%	742	10,751	9,839	2,460	161	293	4817	5272	5612.60	13651		1448	1065	0	4236			
2050	40,348	1.91%	756	10,945	10,029	2,507	161	305	4904	5371	5612.60	13651		1448	1065	0	4236			
2051	40,997	1.61%	650	11,111	10,192	2,548	161	318	4979	5458	5612.60	13651		1448	1065	0	4236			
2052	41,657	1.61%	660	11,281	10,358	2,589	161	330	5055	5546	5612.60	13651		1448	1065	0	4236			
2053	42,328	1.61%	671	11,453	10,526	2,632	161	342	5132	5635	5612.60	13651		1448	1065	0	4236			
2054	43,010	1.61%	681	11,627	10,698	2,674	161	354	5210	5726	5612.60	13651		1448	1065	0	4236			
2055	43,702	1.61%	692	11,805	10,872	2,718	161	356	5290	5807	5612.60	13651		1448	1065	0	4236			
2056	44,406	1.61%	704	11,985	11,048	2,762	161	357	5370	5889	5612.60	13651		1448	1065	0	4236			
2057	45,121	1.61%	715	12,169	11,228	2,807	161	359	5453	5972	5612.60	13651		1448	1065	0	4236			
2058	45,847	1.61%	726	12,355	11,411	2,853	161	360	5536	6057	5612.60	13651		1448	1065	0	4236			
2059	46,585	1.61%	738	12,544	11,596	2,899	161	361	5621	6144	5612.60	13651		1448	1065	0	4236			
2060	47,335	1.61%	750	12,736	11,785	2,946	161	361	5707	6230	5612.60	13651		1448	1065	0	4236			
							¹ The Source Quantity listed for the wells is the pumping capacity of each well, not what the water right provides access to = actual values													

Santaquin Growth Projections							Outdoor Water (Pressure Irrigation)																						
Year	Population	Average Annual Growth Rate	Additional Persons/Yr	Culinary Water System ERCs (Starting from Master Plan)	Pressure Irrigation System ERCs (Starting from Master Plan)	Irrigated Acreage	Quantity Required	Sources Quantity ¹																					
							Quantity of Water in Rights and Shares	Maximum Source Capacity ²	Water Use	Summit Creek Irrigation Company (2103 Total Shares Exist)			Water Reclamation Facility (Storage)	Water Reclamation Facility (Recovery Well - 90 days/yr)	Provided by Culinary System	Spring Overflow Capture	Wells ³		SHLC & CUP Aqueduct Connections (needed at 6055 ERCs)										
																	Center Street (needed until SHLC & CUP Aqueduct Connections)												
																	at 0.25 acres/ERC	at 1.87 ac-ft/irrigable acre/yr		(SCIC + WRF + CUP) (not counting culinary, spring or well rights)	(SCIC + WRF + from Culinary + Springs + Wells + CUP) (well & spring capacity is duplicated in culinary system)	(SCIC + WRF + from Culinary + Springs + Wells + CUP)	City-owned Shares	Water Right ⁴	Water Use ⁴	at 5302.7 ac-ft/yr max	at 0.2 MGD	at 0.348 MGD	at 903 ac-ft/yr max
																	at 0.25 acres/ERC	at 1.87 ac-ft/irrigable acre/yr		(SCIC + WRF + CUP) (not counting culinary, spring or well rights)	(SCIC + WRF + from Culinary + Springs + Wells + CUP) (well & spring capacity is duplicated in culinary system)	(SCIC + WRF + from Culinary + Springs + Wells + CUP)		Water Right ⁴	Water Use ⁴		at 0.2 MGD	at 0.348 MGD	at 903 ac-ft/yr max
(acres)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)	(ac-ft/yr)												
2010	9,128	4.23%																											
2011	9,514	1.62%	386									744.58			443														
2012	9,668	1.81%	154					1662	2323	1874	554	1662	1213		661														
2013	9,843	8.28%	175	3,123	2,363	591	1105	1907	2700	1608	635.5	1907	814	0	600		193.7												
2014	10,658	8.28%	815	3,332	2,568	642	1200	2215	3004	1702	660	1981	679	234	597		192												
2015	11,540	8.28%	882	3,558	2,790	697	1304	2616	3519	3519	686	2059	2059	557	0	600	111	192											
2016	12,496	8.28%	956	3,803	3,030	757	1416	2697	3600	3600	713	2140	2140	557	0	600	111	192											
2017	13,531	8.28%	1,035	4,069	3,290	822	1538	2781	3684	3684	741	2224	2224	557	0	600	111	192											
2018	14,651	8.28%	1,120	4,356	3,571	893	1670	2868	3771	3771	770	2311	2311	557	0	600	111	192											
2019	15,864	8.28%	1,213	4,667	3,876	969	1812	2959	3262	3262	801	2402	2402	557	0	0	111	192											
2020	17,178	8.28%	1,314	5,004	4,206	1,052	1966	3565	3867	3867	832	2496	2496	1068	0	0	111	192											
2021	17,815	3.71%	637	5,167	4,366	1,092	2041	3646	3949	3949	847	2540	2540	1106	0	0	111	192											
2022	18,476	3.71%	661	5,337	4,532	1,133	2119	3712	4015	4015	862	2585	2585	1127	0	0	111	192											
2023	19,161	3.71%	685	5,512	4,705	1,176	2199	3778	4081	4081	877	2630	2630	1148	0	0	111	192											
2024	19,872	3.71%	711	5,695	4,883	1,221	2283	3847	4150	4150	892	2676	2676	1170	0	0	111	192											
2025	20,610	3.71%	737	5,884	5,069	1,267	2370	3996	4301	4301	908	2723	2723	1193	80	2	111	192											
2026	21,374	3.71%	765	6,080	5,261	1,315	2459	4090	4396	4396	924	2771	2771	1217	101	4	111	192											
2027	22,167	3.71%	793	6,283	5,460	1,365	2553	4185	4494	4494	940	2820	2820	1242	123	6	111	192											
2028	22,990	3.71%	822	6,494	5,667	1,417	2649	4283	4594	4594	957	2870	2870	1267	146	8	111	192											
2029	23,842	3.71%	853	6,713	5,881	1,470	2749	4384	4697	4697	973	2920																	

This proposal was sent to Santaquin City by Mr. Dan Olson:

25 July 2013

This document is in follow up to council meeting on June 19, 2013

PROPOSAL to Santaquin City for Contracted use of Summit Creek Irrigation and Canal Company (SCI&CC) Shares into the existing Pressurized Irrigation system. This proposal is a suggestion that the City of Santaquin create a resolution to allow those share holders living in the Santaquin city boundaries to deliver their water shares to Santaquin City for dispersal within the Pressurized Irrigation system that is now in place.

July 24 2013 at 5pm I drove to the mouth of Pole Canyon to investigate the level of the water in the new PI (Pressurized Irrigation) pond and see what kind of usage, storage and room there might be to place extra water that could be used in the city PI system. My concern was that possibly the pond was already at capacity. My discovery was that the pond was extremely low and a concern that the water level produces enough head to keep the flow used in the nearer subdivisions immediately below the pond. With the proposed new subdivisions in the immediate area the use would increase dramatically and I would estimate that the water level would be at a critical level if more houses were added to this PI stream developed from the pond at Pole Canyon. Without some augmentation of this ponds capability the PI could suffer outages of water very easily in drought or low water years. By adding more homes the water will disappear faster even in normal precipitation years.

Using my personal property/home figures of usage for PI, I would like to attempt some figures that could be used as a guideline for a share(s) of water being utilized by the city in the PI system. By doing so, it is no different than shares presently used by some of the larger farmers who rent shares from small shareholders in the city that no longer want to use their shares. This proposal will effect a few, not many and will most likely not affect many of the property owners in the newer subdivisions since few have shares of SCI&CC.

My proposal has to do with diversion of creek shares since all of the Olson shares are provided by the creek and not the wells that SCI&CC utilize in their system. Since no Summit Creek well at present can provide water into the ditch that we currently utilize (Summit Creek ditch b1) this makes this stream in particular an easy divertible stream to the pond. By diversion of our shares into the city pond at the mouth of Pole canyon the water shares can be utilized throughout the system and wielded by Santaquin City means.

From my best guess (if we want a better count it will take some time to develop the shareholder and usage list) there are less than 500 shares that sit outside of the farmers use and many of those go unused or used partially because most shareholders are older, have 1 acre lots in town and do not garden or water their lawns as they did just 20 years ago. With older people-they do not like to get up at 1am and take a half hour turn of water. Keep in mind that the city and just a few farmers make the majority of the shareholders in the SCI&CC.

Calculations for use

Daniel and Cauleen Olson 630 East 450 South usage of PI at their residence. 1 Acre lot at this address

Usage May to mid June 2012 = 105K Gal

Usage June to mid July 2012 = 99K Gal

Usage May to mid June 2013 = 61K Gal

Usage June to mid July 2013 = 71K Gal

SCI&CC claims that a typical stream provides 4 cubic feet per second of water. That equates to a stream (1 cubic foot of water = 7.4805 gallons) @4cfs for 30 min for 1 share = 29.92 GPS (gallons per second), 1795.32 GPM, **53859.74 GP30Min** = ~54,000 gallons per share of SCI&CC water since a share lasts 30 minutes.

Worst case May to mid June in 2012 the use would be 105,000 gallons usage or 26250 gpweek. With an irrigation stream of 53,860 gallons per week the difference would be total water delivered to the Santaquin City pond of 215440 gpmonth or 4 week time frame and the Delta is in my case as compared to my actual high usage of 105,000 gallons on the worst month is 110440 gallons that the city could claim. My lot is a 1 acre lot equal to many within the main part of town. I am not watering as much this year as last and would like to look at the 110,000 gallons per month as a good number to use for the shareholders PI non-billed proposed value. It is actually 1/3 more than I am using this year and I am not really watering enough by the present look of my front and back lawns. However I could accelerate that usage and enjoy a few more things but keep around that 110,000 mark per water share. Keep in mind that I would like to offer an additional item to double the share and have an option to use 220,000 gallons per month if I wanted and grow a few fruit trees or something but still not use the stream on more than my one acre lot. This is an option for minor shareholders that own possibly 2 shares of SCI&CC water and want to utilize it and sign a contract with the city.

This then becomes a possibility of any shareholder of Summit Creek shares to grow a nice garden, irrigate their lawn and flowers using the allotment for beautifying the city and the city being able to make much more money on the water available. The city also ends up with (free) water to sell to other residents as well as make up for shortages in developments not serviced with enough water. (this statement assumes there are some developments that are close to maxing out)

For one share of water that a share holder delivers to Santaquin City PI, the city would have 110,000 gallons of water that they could wield and sell as well as provide for growth within the city thus supplying new subdivisions with precious PI. At current rates the city will make money doing so since the standard cost for PI will be paid even by those that use their water shares in this manner.

Proposal of shares and contracts to do so

The following are suggested usages and proposals to consider as this city ordinance or resolution is written and approved then codified into the proper format.

An owner can use up to 2 shares per city lot. The council must decide on how big a city lot is described. Main lots in town were 1 acre on average, maybe we should stay with that and adjust accordingly. (maybe even offer exceptions if business needs or wants to use water) Keep in mind that with the 1 acre city lots -most had water shares and most 2 shares or less that they have had in the family for years.

This proposal and eventual ordinance must only be for residential use and within the city limits. It is not intended for Agricultural use however a business could look at the feeder line and adjust accordingly and maybe water up to 6 acres—or 1 block, 12 shares of water but this becomes a very gray area. A business or agricultural use could be something that the council might entertain with guidelines set up as a part of this ordinance.

List of Qualifications and Limitations:

1. Must be a resident within Santaquin City Limits.
2. Residential Use only. No agriculture---We might want to study the options for small use.
3. One Acre or less sized lots. As approved by the council. Some extenuating circumstances may need to be studied as there may be need to vary some with special circumstances that might apply.
4. City has the first right of refusal to purchase the water if the shareholder ever desires to sell. This gives the city a fair advantage of access to water that they may have been using through a PI contract and a means by which a family could decide to sell in the event of an end of life or other type of ownership situation. This gives the city a priority as well as the shareholder a responsibility in the agreement they would have with the city.
5. The share owner is responsible to pay any assessments to Summit Creek Irrigation and Canal Company. If these are not kept up, the city could have the rights to pay the assessment after a certain period and the ownership of the share defaults to the city.
6. The share owner will retain their voting rights with Summit Creek Irrigation and Canal Company. As long as they retain ownership of their shares and pay the assessment every year.
7. The shareholder will be allowed to use 110,000 gallons per month (1/2 of their share) for the base rate only. Shareholders pay the monthly base rate no matter what their usage is. Usage over 110,000 gallons will be billed at the current overage rates and that overage rate would change when all overage rates change—so that the contract does not lock in the shareholder to low rates in the future and encourage over usage not planned or foreseen. By allowing 2 shares per acre a homeowner could in fact grow a garden and beautify the area and should be able to stay within the use guideline.
8. The City would have the right to all excess water to sell or wield or to sell within the PI system with no claim by the owner. Even if the owner does not use the 110,000 gallons per month.
9. Suggestions of having a timed sprinkling system could be encourage or required in order to better utilize personal usage.
10. No bigger than a 1" service to anyone. (this may be too big and should be set in the resolution)
11. Each share transfer must be approved by the city council and a contract signed with the share owner. The reason for the contract is to ensure the long time use and assure that each individual user is committed to provide that water to the city PI system. This means the city can

plan for 10 years (or some time whatever that may be) that this water is available for growth and usage.

12. The city will be required to meet with SCI&CC to formalize the plan and verify the diversion of the streams for the water diversion into the Pole Canyon Pond or wherever they deem necessary. This may in fact be other wells or wherever the agreement is made between the two entities.

BENEFITS to the City

Immediate water available for PI and without the cost of buying shares. The city becomes a partner with shareholders that may never sell or rent their shares in any other way.

Planned Revenue source for an extended period of time for the city.

Beautification to the city as a whole with lots being able to utilize the water resource effectively.

Possibly this extra water will allow enough depth in the Pole Canyon pond to allow fish to live and an extra place for families to go and fish. This extra water at that location could possibly lead to a small park in the area that families could use for recreation of all sorts. (I am not sure the amount of acreage that Santaquin City owns adjacent to the pond but this could be considered)

Provides an option for new growth and water to maintain the planned PI usage of these new areas and additions to the current residential usage.

SUMMARY

This new ordinance can add to the city financial line, to beautification, can provide for growth and lessen the impact as we move forward in many aspects of the direction we are going. This is an important issue and will provide a means to grow, without it, new ways to provide water will always serve as a challenge. This will help in many ways as stated above.

One further thought I would like to add is in regards to organization, planning, use and resources for water. Every city will face tighter and tighter challenges as they grow. I suggest we develop a Santaquin City Water Development Board that oversees, suggests, monitors and helps in the planning and reviews of all water projects. This can include everything from flood mitigation, aquifer recharge, introduction and use of effluent water, planned use of wells and reviews of any type of water plan as well as adding options that they could come up with. A committee like this can serve as a resource for the council, P&Z, building and plan review as well as studies and recommendations for recreation and other uses. This is a new idea but we never get any new results unless we try something new especially something that can help us prepare for the upcoming growth in the city. We have a finite amount of water and better utilization is a constant charge we are given.

Thanks

Dan Olson