

ESCALANTE CITY
WATER CONSERVATION PLAN
Resolution number 2025-01

WEREAS, Escalante City is required to complete a water Conservation Plan,

WHEREAS, Escalante City has reviewed and approved the 2025 Water Conservation Plan,

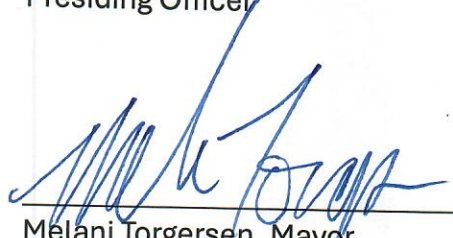
NOW, THEREFORE, be it ordained, by the city council of Escalante City that the attached Water Conservation Plan is hereby approved.

The Resolution 2025-01 shall take effect immediately upon passage.

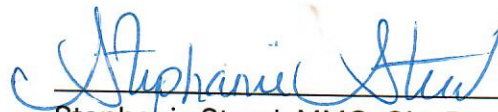
PASSED AND ADOPTED BY THE ESCALANTE CITY COUNCIL *March 4,* 2025.

	AYE	NAY	ABSENT	ABSTAIN
Councilmember Chad Lyman	_____	_____	<u> X </u>	_____
Councilmember Sally Orme	<u> X </u>	_____	_____	_____
Councilmember Marlene Stowe	<u> X </u>	_____	_____	_____
Councilmember Blaine Porter	<u> X </u>	_____	_____	_____
Councilmember Lenza Wilson	<u> X </u>	_____	_____	_____

Presiding Officer


Melani Torgersen, Mayor
Escalante City

Attest


Stephanie Steed, MMC, City Recorder
Escalante City

Escalante City Water Conservation Plan



Updated January 2025

Adopted by the Escalante City Council on March 4, 2025



R + B • WHITE
P.E.

Richard B. White, PE, PLLC

Draper, Utah
www.rbwhitepe.com

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ESCALANTE CITY WATER CONSERVATION PLAN

1.0 INTRODUCTION

Escalante City is a rural community of approximately 800 people located in Garfield County, Utah. The domestic water system for the community is supplied by springs located on U.S. Forest Service property in the Escalante Mountains about 14 miles northwest of the City. This supply is supplemented by water from a well drilled into the Navajo Sandstone west of the City. All water in the system is delivered to two 500,000-gallon storage tanks and distributed from those tanks through the service area via pipelines of varying diameters.

Problems with the City's water supply and distribution system resulted in a moratorium on the issuance of water meters in the mid-2000s, effectively halting growth. To alleviate these concerns, the City implemented an extensive program to upgrade the existing water supply and distribution system. These upgrades involved replacing the existing transmission line from the springs to the city water tanks to eliminate leakage and associated maintenance expenditures, improving the reliability and quality of water yielded by the well, upgrading the spring collection areas, and increasing the serviceability of the water distribution system.

To ensure an adequate supply and distribution of water in the future, it is important that not only the physical system be maintained but that conservation measures also be implemented. The purpose of this document is to update the City's water conservation plan to help ensure water for the future.

2.0 DESCRIPTION OF THE WATER SYSTEM

2.1 HISTORY AND USAGE

Water System Name: Escalante Town
Water System Number: 09004
Address and Phone Number: 56 North 100 West
Escalante, Utah 84726
435-826-4644

The drinking water system in Escalante is classified by the Utah Division of Drinking Water as a public, community water system. Major components of the existing water system were constructed or renovated at the following approximate dates:

Initial development of springs:	1935-1936
Initial construction of a pipeline from the springs to the City:	1935-1936
Initial construction of the City water distribution system:	1935-1936
Construction of a ductile iron pipeline from the springs to the City:	1963
Construction of the current water storage tanks:	1982
Initial construction of the City's water well:	1991
Upgrade of the spring collection system and upper pipeline:	1998
Installation of the current chlorination system:	1998
Installation of a storage-tank water-level monitoring system:	2005
Rehabilitation and deepening of the existing water well:	2008
Installation of an HDPE spring water transmission pipeline:	2009
Upgrade of the City culinary water distribution system:	2009-2011

In 2019, there were 666 service connections to the Escalante drinking water system. Of these, 524 were residential, 90 were commercial, and 54 were other (e.g., governmental, institutional, etc.).

System demand for indoor water use in the State of Utah is calculated based on the concept of Equivalent Residential Connections (“ERCs”). The number of ERCs served by a drinking water system is calculated based on the difference between the average annual per-connection water use by all non-residential connections and the average annual per-connection water use of all residential connections. The ERC concept and associated calculations for Escalante are further explained in the City’s Drinking Water Master Plan¹. In 2018, there were 976 ERCs on the Escalante water system.

2.2 CURRENT SYSTEM STATUS

The 4-inch diameter ductile iron pipeline running from the springs to the City storage tanks was replaced in 2009 with 6-inch diameter high-density polyethylene pipe to minimize water losses and maintenance expenditures. As a result, the spring collection system and transmission pipeline line from the springs to the city water tanks are generally in excellent condition.

A few years after the water well was drilled it began yielding water with objectionable taste, presumably due to elevated sulfide and iron concentrations. The well was rehabilitated in 2008 by sealing the annular space behind the casing, deepening the well, and installing a well screen. This resulted in a substantial improvement to water quality.

Water lines in some of the service area formerly extended for more than one block before looping through to an adjacent block. This increased the number of water users that were

¹ Richard B. White, PE, PLLC. 2020. Drinking Water System Master Plan and Hydraulic Model Design Elements Report. Project report prepared for Escalante City. Draper, Utah.

In compliance with the requirements of the Utah Division of Drinking Water, the City has installed fencing around the springs that supply water to the City system. The purpose of this fencing was to prevent cattle from grazing in the spring collection areas. This fencing was replaced in 2021 due to damage sustained after several years of use. In 2024, the collection system associated with one of the springs was upgraded to improve the yield to the City drinking water system.

The City water system contains two water storage tanks – one constructed of steel and one constructed of concrete. The water storage tanks were fitted in 2005 with a system to allow remote monitoring of water levels and to notify appropriate City personnel in the event of a low-water situation. This system operates off a cell phone system, with coverage in the area currently being unreliable. Thus, plans are underway to evaluate alternatives for more efficient operation of the tank monitoring system.

Data submitted by the City to the Utah Division of Water Rights¹ indicate that the total volume of culinary water used from the Escalante water system in 2023 was 74,178,180 gallons. This was divided between use categories as follows:

- Residential = 41,435,650 gallons
- Commercial = 22,628,810 gallons
- Industrial = 1,700,830 gallons
- Institutional = 8,412,890 gallons

The amount of water diverted from sources into the collection system in 2023 was measured at 75,856,200 gallons. This was divided between sources as follows:

- Springs = 75,836,650 gallons
- Well = 16,290 gallons

The difference between the amount of water diverted and the amount used (1,678,020 gallons) represents improperly measured flows, overflow from the storage tanks, water that was lost from the system, etc. Water meters on individual connections are replaced when they are faulty, thus helping to improve measurement at the point of use. Furthermore, although all of the connections are metered, some of this metered water is not billed. This occurs, for example, when customers are required by the City to flush their lines or when water overflows the City's storage tanks.

The City is evaluating options for more-accurately measuring inflow to and outflow from the system to better account for potential water losses. These options include recalibration or

¹ https://waterrights.utah.gov/asp_apps/viewEditPWS/pwsView.asp?SYSTEM_ID=1134

replacement of some existing meters. Furthermore, the City has recently purchased a meter to monitor storage tank outflow. The timing of future actions will likely depend on funding.

Based on a population of 835 residents and 74,178,180 gallons of total water use, the average annual water use in Escalante in 2023 was 243 gallons per capita per day. This value is 14% lower than the average 2015 per capita water use for the region (284 gallons per capita per day) as reported by the Utah Division of Water Resources². The published water conservation goal for the region that includes Escalante is an average annual water use of 231 gallons per capita per day by 2030. Compared with the remainder of the region, Escalante is close to achieving that goal.

2.3 WATER RIGHTS

The City has rights to the following nine springs in the vicinity of Posy Lake:

1. C.C. Spring
2. John Allen Bottom Spring #1
3. John Allen Bottom Spring #4
4. John Allen Bottom Spring #5
5. John Allen Bottom Spring #6
6. Deep Creek Spring #1
7. Deep Creek Spring #2
8. Deep Creek Spring #3
9. Deep Creek Spring #4

These springs have an 1892 priority. As a group, the flow right associated with these springs is 0.5 cubic foot per second (“cfs”), which is equivalent to 224.3 gallons per minute (“gpm”). Water rights associated with all of the springs are designated for municipal use throughout the year.

Since springs do not issue water at a constant rate, the City also supplies water from its well during periods of high use and low discharge from the springs. The City has a right to divert 1.5 cfs or 550 acre-feet per year (“AF/yr”) from this well under water right 97-2214. In practical terms, the rate at which this water can be supplied by the well is limited only by the capacity of the pump and the associated piping system. The well pump is rated nominally at a discharge rate of 450 gpm. The permit issued by the Utah Division of Drinking Water for operation of the City’s well allows a long-term pumping rate of 320 gpm, based on the rate at which a 24-hour pumping test was performed following rehabilitation of the well (470 gpm). The Utah Division of Drinking Water also established a “safe yield” for the well of 250 gpm

² Hansen, Allen & Luce, Inc. and Bowen Collins & Associates, Inc. 2019. Utah’s Regional M&I Water Conservation Goals. Project report prepared for the Utah Division of Water Resources. Available online at <https://water.utah.gov/wp-content/uploads/2019/12/Regional-Water-Conservation-Goals-Report-Final.pdf>.

based on the pumping test rate. These rates were a function of the pumping equipment used for the test and should not be construed as having an influence on the water right.

Pine Creek Irrigation Company conveyed water right 97-6 to Escalante City in 2016. This right, which is part of four supplemental water right groups, allows the diversion of 1.4817 cfs from Pine Creek and four supplemental wells for irrigation and stock watering. The precise number of irrigated acres and heads of stock appurtenant to each individual right within the four supplemental groups associated with this right have not yet been evaluated by the Utah Division of Water Rights. Until this occurs, the City cannot change the beneficial use of this right to municipal purposes. The City is in negotiations with Pine Creek Irrigation Company to allow apportionment of this right but, as of the date of this plan, no final decisions have been made.

The City also owns water rights associated with springs known locally as Barker Springs, located adjacent to the City's sewage lagoons. These water rights are for the use of 0.924 cfs (415 gpm) for irrigation and stock watering. Three additional rights, not owned by Escalante City, are part of the larger supplemental group. These rights were conveyed to the City in 1987 to facilitate construction of the sewage lagoons. These rights have never been apportioned among the larger supplemental group, nor have they been changed to municipal use.

2.4 PROJECTED GROWTH

System demand for indoor water use in the State of Utah is calculated based on the concept of Equivalent Residential Connections ("ERCs"). The number of ERCs served by a drinking water system is calculated based on the difference between the average annual per-connection water use by all non-residential connections and the average annual per-connection water use of all residential connections. The ERC concept and associated calculations for Escalante are further explained in the City's Drinking Water Master Plan³. In 2023, there were 961 ERCs on the Escalante water system.

The Kem Gardner Policy Institute at the University of Utah prepares periodic population projections to aid in planning. The most recent projection of future population growth in Garfield County was based on an average annual growth rate of 1.1% from 2024 through 2033. Given the relatively stagnant nature of population growth in Escalante over the past several years, population was projected for this plan based on 0.5% growth and 1.0% growth. These growth scenarios and their 2060 water requirements are summarized in Table 1. The water requirements in this table were calculated based on rules promulgated by the Utah Division of Drinking Water, assuming that the number of ERCs would increase at the same rate as the projected population.

³ Richard B. White, PE, PLLC. 2020. Drinking Water System Master Plan and Hydraulic Model Design Elements Report. Project report prepared for Escalante City. Draper, Utah.

TABLE 1
**Escalante Water System Current and
Projected Design Requirements**

System Feature	Units	Current Condition/ Capacity	2060 Requirement ^(a)	
			At 0.5% Growth	At 1.0% Growth
Population	Number	835	994	1,183
Number of water connections	Number	687	818	973
Number of ERCs	Number	961	1,144	1,361
Total storage	Gallons	1,000,000	457,600	544,400
Peak daily source capacity	gpm	674	635	756
	cfs	1.50	1.41	1.68
Average annual source capacity	AF/yr	1,087	513	610
	cfs	1.50	0.71	0.84

^(a)Future requirements based on the following Utah Division of Drinking Water regulations:

Storage: 400 gal/ERC (see R309-510-8[2])

Peak daily source demand: 800 gpd/ERC (see R309-510-7[2])

Average annual source capacity: 146,000 gal/ERC (see R309-510-7[2])

With 1 million gallons of storage capacity, the current water system adequately meets the storage requirements of R309-510 through at least 2060, even with 1% annual growth (under which the projected storage requirement would be 770,300 gallons). Based on a flow of 224 gpm from the currently developed springs and a flow of 450 gpm from the City's well (the nominal discharge capacity of the current pump), the current available source capacity of the Escalante drinking water system is 674 gpm (1.50 cfs). This supply is adequate to meet the required current and future average annual source demands through 2060. However, if growth occurs at a rate of 1%, the current source capacity may only be adequate to meet peak daily source capacity requirements through 2060, depending on the rate at which growth occurs. The ability to deliver this water will depend on the continued yield of the sources, potential changes to pumping capacity, and maintenance of the system to minimize water losses.

The potential future shortfall in source capacity emphasizes the importance of converting water right 97-6 to municipal use and upgrading the spring collection system to capture that water. Furthermore, the City should consider evaluating the use of water from Barker Springs for irrigation of the cemetery and potentially other nearby property, thereby reducing the demand for irrigation use of culinary water. This could be done by changing only the point of use of the water since the rights associated with Barker Springs are currently designated for irrigation use.

3.0 WATER CONSERVATION CHALLENGES AND OPPORTUNITIES

3.1 CHALLENGES

Most of the challenges related to water distribution inefficiencies have been resolved. Furthermore, the City's graduated water rate structure encourages water conservation (see Appendix A). The primary remaining challenges regarding water conservation are as follows:

- The water-level monitoring system on the storage tanks is not currently active due to poor cell phone coverage. With a fiber-optic line now available near the tanks, this system could be upgraded.
- The flow meters on the springs and the water well are old and may not be accurately measuring source yields. Furthermore, the flow meter purchased to measure the tank discharge into the distribution system has not yet been installed. Alternatives to address these conditions (i.e., recalibration, replacement, or installation of new meters), and funding sources to address these issues, are currently being evaluated by the City.
- Water users often plant large areas of grass and other water-intensive landscaping and use culinary water to irrigate those areas. Water-saving tips can be found on several web sites (such as www.UtahWaterSavers.com) and shared with residents.
- Although water rights are adequate for the anticipated growth in the immediate future, additional municipal water rights are needed to supply future growth. Furthermore, periodic drought conditions will still limit the amount of water that can be delivered to water users. The City is pursuing changes to water right 97-6 to shore up future water supplies.

3.2 GOALS AND IMPLEMENTATION

The primary goal of the City water conservation plan has been to encourage residents to continue conserving water as system improvements are made and the sources become more reliable. Additional goals of this water conservation plan include the following activities:

- Storage tank monitoring system. The City will install the flow meter on the discharge line(s) from the tanks to the distribution system.
- Source flow meters. The City will evaluate options for upgrading the source flow meters at the chlorinator building and the well house.
- Educate the public. The City has been providing water-conservation tips with water bills that are sent out during the spring and summer months (i.e., the high water-use season). This will continue. Examples of simple water conservation measures that may be included with the utility bills are provided in Appendix B.

- Keep an accurate record. Water meter readings are maintained in a database that will allow usage to be tracked. These readings will be periodically compared with data collected from meters that are installed on the main lines (i.e., from the springs, the well, and the water tanks) to determine if significant losses are occurring in the system.
- Maintain the system. In addition to responding to system emergencies (i.e., broken water mains, etc.), water quality and flow records will be periodically reviewed to determine if long-term system maintenance needs exist (e.g., redevelopment of the well or springs).
- Limit the timing of outdoor watering. Outdoor watering accounts for nearly two-thirds of water usage in Utah. The amount of water required to achieve the same results is significantly higher during the mid-day hours, due to higher temperatures and winds. The City will encourage water users to curtail outdoor irrigation with culinary water during the hours of 10:00 am to 6:00 pm.

Consistent with the goal established by the Utah Division of Water Resources for the region that includes Escalante, the City's goal is to reduce average daily culinary water consumption from 243 gallons per capita per day to 231 gallons per capita per day in keeping with the regional goal set by the Utah Division of Water Resources. This goal can be reached through the water conservation efforts outlined in this document. Attainment of this goal will be measured by monitoring use each year and recalculating the average per capita water use. If progress toward the reduction goal slows, additional effort to involve the community will be undertaken.

3.3 WATER EDUCATION PROGRAM

The City regularly mails newsletters with water billings urging conservation and prudent use of water. This will continue in the future.

Escalante City
Escalante, Utah

Water Conservation Plan
January 2025

APPENDIX A

Water Rate Ordinance

Richard B. White, PE, PLLC

**PORTION OF CHAPTER 8 OF THE
ESCALANTE, UTAH MUNICIPAL CODE**

8.04.050 Fees, Rates and Charges

- A. **Billings And Payments:** The city shall, through its properly designated employees, promptly bill all persons, firms, corporations, partnerships and other legal entities for all services furnished by the consolidated city water and sewer system. The form of the statement will show the separate charges due for water supplied and sewer services furnished by the consolidated city water and sewer system. Users shall pay the total sum of water charges and sewer charges. Such charges may not be paid separately. Water services shall be disconnected to any consumer who shall become delinquent for more than ninety (90) days from the date of the billing, in the payment of water or sewer charges.
- B. **May Be Established By Resolution:** The rates, penalty fee for delinquency in payment, connection fee, inspection fee, reconnection fees, and other charges incidental to the connection and services from the city water and sewer systems, shall be fixed from time to time by resolution enacted by the city council. The city council may, from time to time, promulgate rules for levying, billing, guaranteeing and collecting charges for culinary water services and all other rules necessary for the management and control of the system. Rates for services furnished shall be uniform with respect to each class or classes of service established or that may hereafter be established. Rates may be established at different levels for premises outside the corporate boundaries of the city.
- C. **Fee Specified:**
 - 1. **Water Impact Fees:**
 - a. Applicants for new water connections in City Limits shall pay an impact fee of four thousand seven hundred dollars (\$4,700.00) upon approval.
 - b. Applicants for new water connections outside of City Limits shall pay an impact fee of five thousand seven hundred dollars (\$5,700.00).
 - 2. **Sewer Impact Fees:**
 - a. Applicants for new sewer connections shall pay an impact fee of one thousand dollars (\$1,000.00).
 - 3. **Water Connection Fees:**
 - a. For three-fourth inch (3/4") service (meter installation) - five hundred dollars (\$500.00).
 - b. For service over three-fourth inch (3/4") service - as determined by the city council.
 - c. Applicants for new water connections shall pay a connection fee of one thousand five hundred dollars (\$1,500.00) upon approval. An additional one thousand five hundred dollar deposit (\$1,500) with a minimum of one thousand (\$1000.00) will be assessed for going through an asphalt chip sealed street.

- d. If a water meter is moved from one location to another on the same property, the fee shall be an additional one thousand dollars (\$1,000.00) to move such meter.
 - e. The city shall approve applications for new water connections only when such a request is accompanied by an approved municipal project approval form for which city water is required. Upon approval, applicant shall have 60 days to obtain a Garfield County Building Permit and pay all fees or applicant will have to reapply for the water connection. The project must be started within a year of approval and have an active County Building Permit or the water connection will go back to the city. Any and all fees paid are non-refundable.
 - f. The city council shall limit the availability of new connections for sale as to not exceed the available water supply and water rights of the city. A permanent minimum water right of .550 gallons per minute shall be required for each connection, active or inactive. The city council may impose moratoriums on the sale of new connections as required for the availability of water and operational integrity of the system.
 - g. A twenty five dollar (\$25.00) fee shall be imposed when the meter is taken out.
 - h. A twenty five dollar (\$25.00) fee shall be imposed when the meter is reinstalled.
4. Sewer Connection Fees:
- a. The city shall approve applications for new sewer connections only when such a request is accompanied by the approved municipal project approval form which city sewer is required. Upon approval, applicant shall have 60 days to obtain a Garfield County Building Permit and pay all fees or applicant will have to reapply for the sewer connection.
The project must be started within a year of approval and have an active County Building Permit or the sewer connection will go back to the city. Any and all fees paid are non-refundable.
 - b. The city council may at any time limit the number of or deny applications for new sewer connections to ensure adequate sewer capacity for the existing users of the system.
 - c. Applicants for new sewer connections shall pay a connection fee of five hundred dollars (\$500.00). An additional one thousand five hundred dollar deposit (\$1,500) with a minimum of one thousand (\$1000.00) will be assessed for going through an asphalt chip sealed street.
5. User Fees:
- a. User Fees Inside City Limits:
 - (1) Inactive Water Connections: A monthly rate of the current year rate shall be assessed on each inactive water connection inside city limits. Inactive connections purchased or installed before April 1998 shall only

be assessed inactive connection fees after that date. A fee of twenty five dollars (\$25.00) shall be assessed to activate or inactivate any connection. If the owner of a connection is over sixty two (62) years of age the fee to activate or inactivate any connection will be five dollars (\$5.00). Prior to activating any connection, the balance of all fees must be paid in full.

- (2) Active Water Connections: A monthly rate of the current year rate for zero gallons used shall be assessed for each active connection.
- (3) Usage Rates: A monthly rate of one dollar (\$1.00) will be assessed for each one thousand gallons of water used up to ten thousand (10,000) gallons per connection; three dollars (\$3.00) shall be assessed for each additional one thousand (1,000) gallons up to twenty five thousand gallons (25,000); six dollars (\$6.00) shall be assessed for each additional one thousand (1,000) gallons up to fifty thousand gallons (50,000), and nine dollars (\$9.00) shall be assessed for each additional one thousand (1,000) gallons in excess of fifty thousand gallons (50,000). The use of water by the user may be restricted or regulated by the city council in times of drought.

b. User Fees And Restrictions Outside City Limits:

- (1) Inactive Water Connections: A monthly rate of the current year rate shall be assessed on each inactive water connection outside city limits. A fee of twenty five dollars (\$25.00) shall be assessed to activate or inactivate any connection. If the owner of a connection is over sixty two (62) years of age the fee to activate or inactivate any connection will be five dollars (\$5.00). Prior to activating any connection, the balance of all fees must be paid in full.
- (2) Charges for usage outside the corporate limits of the city shall be the current year rate per month for zero gallons used for each active connection.
- (3) Usage Rates: A monthly rate of on dollar (\$1.00) will be assessed for each one thousand gallons of water used up to ten thousand (10,000) gallons per connection; three dollars (\$3.00) shall be assessed for each additional one thousand (1,000) gallons up to twenty five thousand gallons (25,000); six dollars (\$6.00) shall assessed for each additional one thousand (1,000) gallons up to fifty thousand gallons (50,000); and nine dollars (\$9.00) shall be assessed for each additional one thousand (1,000) gallons in excess of fifty thousand gallons (50,000). The use of water by the user may be restricted or regulated by the city council in times of drought.

- c. The city council may at any time change rates, eliminate services, restrict the amount of usage or modify any provision, policy or procedure for out of city

water use without the need to give such user notice and without hearing. This is a mandatory provision based on the irrevocable, perpetual policy of the city that the municipality has no obligation to deliver water on a permanent, continuing, temporary basis to any user outside the city limits.

6. Advance Payment Privileges:

- a. In the interest of the city saving billing and bookkeeping costs, a user may pay in advance on year's total minimum water and sewer user fees and the user shall be entitled to a twenty dollar (\$20.00) discount for that year.

7. Sewer Rates:

- a. Basis Of User Charge: Each equivalent residential unit (ERU) will be charged twenty seven dollars (\$27.00) per month.
- b. Equivalent Residential Unit: An equivalent residential unit is a unit of measurement estimated to equate to an average residential household's use. It is estimated that the average residential household will add approximately ten thousand (10,000) gallons of flow to the wastewater treatment facility monthly. It is impossible to gauge the flow of wastewater from each contributor and it is difficult to measure the flow based on culinary water usage since there are many and varied uses in the city which do not reach the wastewater treatment facility. Therefore, the city has estimated the residential equivalent based on state department of environmental quality estimated quantity of domestic wastewater (Utah state administrative rules for large underground wastewater disposal systems R317-5, effective date November 15, 1991; tables 5-2).

Equivalent residential units are defined as follows:

Classification Of User	Number Of ERUs
Single-family dwelling	1 per household
Trailer parks - permanent residents	1 per trailer
Recreational vehicle parks: Independent spaces (temporary or transient with sewer connection) Dependent spaces w/service bldg. with showers	.125 per space .40 per space
Small/miscellaneous business (flow estimated <10,000 gal/mo.)	1 per business
Elementary school (cafeteria, gymnasium and shower)	.05 per person
Secondary school (cafeteria, gymnasium and shower)	.0625 per person

Gas stations and convenience store (estimated 50 vehicles/pump/day)	.125 per vehicle served
Launderette (self-serve) (estimated 30 loads/washer/day)	.125 per load of laundry
Restaurants	.0875 per seat
Motels	.155 per person/day
Churches	1 per estimated 10,000 gal/mo.

- c. Inactive Services: All sewer services which have been approved and connection fees paid to the city which have not been installed or utilized shall pay seventy five percent (75%) of the base fee of an equivalent residential unit. The charge was determined by a ratio of debt service cost to total costs of the system, estimated as follows:

$$\$88,431.00 * \$119,031.00 ** = 75 \text{ percent}$$

* debt service

** total annual costs of operation.

- d. Enforcement: The city may discontinue culinary water service and seek restitution in civil court as appropriate for the nonpayment of sewer fees when such payment is delinquent in excess of ninety (90) days.
- e. Annual Review: The monthly charge will be reviewed and calculated once a year in conjunction with the city's annual budgeting procedure.
- f. Special Treatment Of Sewage: Where the sewage which is discharged by any commercial or industrial establishment in the city sanitary sewer system is of such character as to require special treatment or to constitute an unusual or abnormal burden on the disposal facilities, such additional charges shall be assessed as the city council shall determine.
- g. Owner To Bear Cost: Any owner of property who has not made application for connection shall bear the expense of the construction of his own service stub and shall be held responsible for replacing the street to its original condition.
- h. Connection And Fee Required: The city will require that all possible connections that can be served must connect to the system and the connection fee must be paid by the time each connection to the system is made.
- i. Subdivider Responsibility:

- (1) All charges for each building or water user and all developments within the subdivision shall be paid for by the subdivider, which shall include

Richard B. White, PE, PLLC

the city's cost of connections and the prevailing rates for water meters, and the city shall become the owner thereof. Each building or place where water is consumed shall be deemed a separate connection.

- (2) Subdividers shall provide, at their own expense and upon approval of the city council, all materials, lines, labor, preparations and all other items necessary to establish a water connection from the main water line to the location of the water use, except the city shall provide and install the meter upon payment of the fees and costs provided in this section to be the obligation of the subdivider.
- D. Disposition Of Funds: All connection fees and monthly user charges collected under the provisions of this chapter shall be deposited in the city water and sewer system funds and used to meet the operation and maintenance costs of the systems; debt service on obligations appertaining to the construction associated with the completion of the systems; and such other allocations as the city council may by resolution provide.
- E. Application For Culinary Water Connection: Any person seeking a water connection shall file with the water department a written signed connection application that can be obtained from the city recorder.
- F. Application For Sewer Connection: Any person seeking a sewer connection shall file with the sewer department a written signed connection application that can be obtained from the city recorder.
- G. Irrigation Of Public Schools: Escalante City water rates for the outside irrigation of public schools shall be amended to the following rate structure. The provisions of this paragraph shall not amend rates for connections used for inside domestic usage of public schools or for any other purpose than to benefit the direct irrigation needs of public schools.
 1. Base Rate: A base rate of seventeen dollars (\$17.00) shall be assessed monthly and shall entitle the consumer to the use of fifteen thousand (15,000) gallons of water per month.
 2. Overage: An overage charge of one dollar (\$1.00) shall be charged for each one thousand (1,000) gallons of overage per month not exceeding four hundred fifty thousand (450,000) gallons. Any water overage in excess of the four hundred fifty thousand (450,000) gallons per month shall be charged five dollars (\$5.00) for each one thousand (1,000) gallons.

Following the enactment of this paragraph G, the Escalante City council may at its discretion, reduce all or portions of water overage charges incurred in 2005 prior to the passage date of this ordinance.
 3. Special Requirements: Consumers utilizing this rate shall only use water for irrigation purposes between the hours of six o'clock (6:00) P.M. and ten o'clock (10:00) A.M. and comply with all other usage restriction means implemented by Escalante City.
 4. Expiration And Repealer: All provisions of this paragraph G shall expire one year from the date of enactment. Any previous ordinance in conflict is hereby repealed.

Escalante City
Escalante, Utah

Water Conservation Plan
January 2025

HISTORY

Adopted by Ord. 1985 Code § 14-214, § 14-126, § 14-128, § 14-170, § 14-190 on 1/1/1985
Amended by Ord. 1998-02 on 4/7/1998
Amended by Ord. 2000-11 on 7/26/2000
Amended by Ord. 2003-01 on 4/1/2003
Amended by Ord. 2004 Code on 1/1/2004
Amended by Ord. [2005-03](#) on 8/16/2005
Amended by Ord. [2007-04](#) on 5/1/2007
Amended by Ord. [2014-02](#) on 5/6/2014
Amended by Ord. [2014-03](#) on 8/5/2014
Amended by Ord. [2015-01](#) on 4/7/2015
Amended by Ord. [2021-07](#) on 6/15/2021
Amended by Ord. [2021-12](#) on 11/2/2021
Amended by Ord. [2023-06](#) on 6/20/2023
Amended by Ord. [2024-09](#) on 3/19/2024

Richard B. White, PE, PLLC

Escalante City
Escalante, Utah

Water Conservation Plan
January 2025

APPENDIX B

Example Water Conservation Measures

Richard B. White, PE, PLLC

EXAMPLE WATER CONSERVATION MEASURES

- When washing dishes by hand, don't let the water run while rinsing. Fill one sink with wash water and the other with rinse water.
- Some refrigerators, air conditioners and ice-makers are cooled with wasted flows of water. Consider upgrading with air-cooled appliances for significant water savings.
- Adjust sprinklers so only your lawn is watered and not the house, sidewalk, or street.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Choose drought-tolerant shrubs and groundcovers instead of turf for hard-to-water areas such as steep slopes and isolated strips.
- Use the garbage disposal sparingly. Compost vegetable food waste and save gallons of water every time.
- Plant in the fall when conditions are cooler and rainfall is more plentiful.
- For cold drinks, keep a pitcher of water in the refrigerator instead of running the tap.
- Monitor your water bill for unusually high use. Your bill and water meter are tools that can help you discover leaks.
- Water your lawn and garden between the hours of 6 pm and 10 am when temperatures are cooler, thereby minimizing evaporation.
- Spread a layer of organic mulch around plants to retain moisture and save water.
- Use a broom instead of a hose to clean your driveway and sidewalk and save water every time.
- If your shower fills a one-gallon bucket in less than 20 seconds, replace the showerhead with a water-efficient model.
- Collect the water you use for rinsing fruits and vegetables, and then reuse it to water houseplants.
- If water runs off your lawn easily, split your watering time into shorter periods to allow for better absorption.
- Check indoor and outdoor faucets, sprinklers and hoses for leaks. Repair leaks promptly.
- Check the root zone of your lawn or garden for moisture before watering using a spade or trowel. If it's still moist two inches under the soil surface, there is no need to water.
- When buying new appliances, consider those that offer cycle and load size adjustments. They are more water and energy efficient.
- Shorten your shower by a minute or two and you'll save up to 150 gallons per month.
- Upgrade older toilets with water efficient models.
- Adjust your lawn mower to a higher setting. A taller lawn shades roots and holds soil moisture better than if it is closely clipped.
- When cleaning out fish tanks, give the nutrient-rich water to your plants.

- When running a bath, plug the tub before turning the water on and then adjust the temperature as the tub fills up.
- Collect water from your roof to water your container plants.
- Designate one glass for your drinking water each day or refill a water bottle. This will cut down on the number of glasses to wash.
- Rather than following a set watering schedule, check for soil moisture two to three inches below the surface before watering.
- Install a rain sensor on your irrigation controller so your system won't run when it's raining.
- Don't use running water to thaw food. Defrost food in the refrigerator for water efficiency and food safety.
- Use drip irrigation for shrubs and trees to apply water directly to the roots where it's needed.
- Reduce the amount of lawn in your yard by planting shrubs and ground covers appropriate to your site and region.
- Teach your children to turn off faucets tightly after each use.
- Remember to check your sprinkler system valves periodically for leaks and keep the sprinkler heads in good shape.
- Soak pots and pans instead of letting the water run while you scrape them clean.
- Don't water your lawn on windy days when most of the water blows away or evaporates.
- Water your plants deeply but less frequently to encourage deep root growth and drought tolerance.
- Know where your master water shut-off valve is located.
- Group plants with the same watering needs together to avoid over-watering some while under-watering others.
- Use a layer of organic material on the surface of your planting beds to minimize weed growth that competes for water.
- Use a minimum amount of organic or slow release fertilizer to promote a healthy and drought tolerant landscape.
- Turn off the water while brushing your teeth and save 25 gallons a month.
- Learn how to shut off your automatic watering system in case it malfunctions or you get an unexpected rain.
- Set a timer when watering your lawn or garden to remind you when to stop. A running hose can discharge up to 10 gallons per minute.
- If your toilet flapper does not close after flushing, replace it.
- Make sure there are water-saving aerators on all of your faucets.
- Next time you add or replace a flower or shrub, choose a low water use plant for year-round landscape color.
- Install an instant water heater near your kitchen sink so you don't have to run the water while it heats up. This also reduces energy costs.

- If installing a lawn, select a turf mix or blend that matches your climate and site conditions.
- When the kids want to cool off, use the sprinkler in an area where your lawn needs it the most.
- Winterize outdoor spigots when temperatures dip below freezing to prevent pipes from leaking or bursting.
- Insulate hot water pipes for more immediate hot water at the faucet and for energy savings.
- Wash your car on the lawn, and you'll water your lawn at the same time.
- Drop your tissue in the trash instead of flushing it.
- Direct water from rain gutters toward water-loving plants in the landscape for automatic water savings.
- Use a hose nozzle or turn off the water while you wash your car.
- Washing dark clothes in cold water saves both on water and energy while it helps your clothes to keep their colors.
- Leave lower branches on trees and shrubs and allow leaf litter to accumulate on the soil. This keeps the soil cooler and reduces evaporation.
- Plant with finished compost to add water-holding and nutrient-rich organic matter to the soil.
- Water only when necessary. More plants die from over-watering than from under-watering.
- Adjust your watering schedule each month to match seasonal weather conditions and landscape requirements.
- Turn off the water while you wash your hair.
- Wash your pets outdoors in an area of your lawn that needs water.
- Apply water only as fast as the soil can absorb it.
- Aerate your lawn at least once a year so water can reach the roots.
- When washing dishes by hand, fill the sink basin or a large container and rinse when all of the dishes have been soaped and scrubbed.
- Turn off the water while you shave.
- When you give your pet fresh water, don't throw the old water down the drain. Use it to water your trees or shrubs.
- If you accidentally drop ice cubes when filling your glass from the freezer, don't throw them in the sink. Drop them in a house plant instead.
- Throw trimmings and peelings from fruits and vegetables into your yard compost to prevent using the garbage disposal.
- When you have ice left in your cup from a take-out restaurant, don't throw it in the trash. Dump it on a plant.

ESCALANTE CITY PUBLIC NOTICE

Notice is hereby given that the Escalante City Council will hold a Public Hearing on March 4, 2025 at 6:00 p.m. in the Escalante City Council Chambers – 56 N. 100 W. Escalante, Utah. This Public Hearing is to adopt resolution 2025-01 - Escalante City 2025 Water Conservation Plan.

The proposed Resolution is posted on the City Website escalantecity.gov.

The public is invited to attend the hearing and provide comments. In compliance with the Americans with Disabilities Act, individuals needing special accommodations during this meeting should notify Escalante City Office at 435-826-4644.

Notice of date, time and agenda for the Public Hearing was posted on the Utah's Public Notice Website, <https://www.utah.gov/pmn/>, Escalante City Website, <https://www.escalantecity.gov> and in two public places within the Escalante City limits on this 6th day of February, 2025. These public places being 1) Escalante Post Office 2) Escalante City Office.

/s/ Stephanie Steed
Stephanie Steed, MMC / City Recorder

**ESCALANTE CITY COUNCIL MEETING
MARCH 4, 2025
PUBLIC HEARING/ELECTRONIC MEETING – 6:00 P.M.
REGULAR MEETING/ELECTRONIC MEETING – 6:00 P.M.
ESCALANTE CITY COUNCIL CHAMBERS - 56 NORTH 100 WEST**

Mayor Melani Torgersen called the meeting to order at 6:00 p.m. in the Escalante City Council Chambers.

Present at said meeting were Mayor Torgersen, Council members Blaine Porter, Sally Orme, Lenza Wilson, Marlene Stowe, City Attorney Barry Huntington and City Recorder Stephanie Steed. Council member Chad Lyman arrived at 6:29 p.m.

Also present were Terry Olsen, Tara Woolsey, Paula Shakespear, Krystal Gurr, Hayden Taylor, Bill Weppner, Margie Weppner, Fred Spencer, Terence Tontlewicz, Sandra Holcomb, Randy Holcomb, Steve Witzdam, Page Witzdam, Jared Dunton, Julie Brugger, Nancy Porter, Elaine Lott, Garin Apperson, Haylee Apperson, Paige Collett, Victory Crawford, Lawrence Barnes, Greg Shakespear and Emilee Lott.

Roger Carter, Megan Haws and Ashley Coombs joined electronically.

Mayor Torgersen led the Pledge of Allegiance.

ADOPTION OF THE AGENDA

Council member Orme moved to adopt the agenda as written. Council member Stowe seconded the motion. Motion carried with Council members Stowe, Wilson, Orme and Porter voting aye.

APPROVAL OF THE MINUTES OF FEBRUARY 18, 2025 MEETING

Council member Wilson moved to approve the minutes of the February 18, 2025 meeting as written. Council member Orme seconded the motion. Motion carried with Council members Wilson, Orme, Stowe and Porter voting aye.

OPEN PUBLIC HEARING

Council member Orme moved to open the public hearing at 6:02 p.m. Council member Porter seconded the motion. Motion carried with Council members Porter, Orme, Wilson, and Stowe voting aye.

RESOLUTION 2025-01 – ESCALANTE CITY 2025 WATER CONSERVATION PLAN

Council member Porter explained Resolution 2025-01. Mayor Torgersen asked if there were any questions or concerns from the public.

There were no comments from the public.

CLOSE PUBLIC HEARING

Council member Stowe moved to close the public hearing at 6:03 p.m. Council member

Porter seconded the motion. Motion carried with Council members Stowe, Orme, Porter and Wilson voting aye.

DECISION ON RESOLUTION 2025-01 – ESCALANTE CITY 2025 WATER CONSERVATION PLAN

Council member Wilson said on page two the initial development of springs, initial construction of a pipeline from the springs to the City and initial construction of the City water distribution system needs to be changed from 1890s to 1935-1936. **Council member Porter moved to adopt Resolution 2025-01 Escalante City 2025 Water Conservation Plan with changing the dates on the top 3 items on page two to 1935-1936. Council member Stowe seconded the motion. Motion carried with Council members Stowe, Orme, Wilson and Porter voting aye.**

PUBLIC COMMENTS

There were no public comments at this time.

PLANNING AND ZONING ITEMS

PLANNING AND ZONING UPDATES

There were no Planning and Zoning updates at this time.

SCHEDULED ITEMS

RJ'S TRUCK STOP INC. – LOCAL AUTHORITY CONSENT – 80 EAST MAIN

Mayor Torgersen explained this Local Authority Consent is for the new owners of the Phillips 66. **Council member Wilson moved to approve the Local Authority Consent for RJ's Truck Stop Inc. Council member Porter seconded the motion. Motion carried with Council members Stowe, Porter, Orme and Wilson voting aye.**

SPONSORSHIP BANNER \$1000.00 – RIDING CLUB

City Recorder Steed explained she contacted Justin Porter with the Riding Club about getting a banner for the city to have displayed during the 24th of July rodeo. Council member Orme said she would like to stick with the \$750.00 event donations. Jared Dunton explained the bronze, silver and gold sponsorship. **Council member Orme moved to donate \$750.00 to the Riding Club for a sponsorship banner. Council member Stowe seconded the motion. Motion carried with Council member Orme, Stowe, Porter and Wilson voting aye.**

MAGNOLIA'S KITCHEN - LOCAL AUTHORITY CONSENT – 280 EAST MAIN

Council member Orme moved to approve the Local Authority Consent for Magnolia's Kitchen. Council member Wilson seconded the motion. Motion carried with Council members Wilson, Porter, Stowe and Orme voting aye.

SANDRA HOLCOMB – MOQUI SUCCESS PROGRAM \$500.00 DONATION

Ms. Holcomb said at this time the High School has this program and it is a success. Ms. Holcomb explained the program aims to improve students' academic performance and provide incentives for personal goals. Ms. Holcomb said she would like to implement this program into the Elementary School and is asking the City to donate \$500.00 to help with the prizes for the students. **Council member Stowe moved to donate \$500.00 to the Moqui Success Program. Council member Orme seconded the motion. Motion carried with Council members Porter, Stowe, Orme and Wilson voting aye.**

GARFIELD COUNTY SCHOOL DISTRICT PROPERTY – 10 NORTH 300 EAST

Mayor Torgersen explained her efforts in acquiring the old elementary school property from the School District. Mayor Torgersen said she has negotiating terms that ensured the district would have to buy it back at a fair market value if the City purchased it and decided to sell it in the future. Mayor Torgersen said she is concerned about the property's condition and the potential for it to become an eyesore if not properly maintained. Mayor Torgersen said she would like to purchase the property so the City would have control over it. Mayor Torgersen said if the City purchases the property we could turn it into a community park, with plans for pickleball courts and other recreational facilities, with the hope of securing grants for the projects. **Council member Wilson moved to purchase the old Elementary School Property from Garfield County School District. Council member Stowe seconded the motion. Motion carried with Council members Stowe, Wilson, Orme and Porter voting aye.**

COMMUNITY PARK PROJECT

Mayor Torgersen said during the last City Council meeting the Council made a motion to move forward with a grant to place Pickleball Courts at the old Mohr Christensen Park but she feels where we are purchasing the School District Property this would be a better location. This item was discussed at length. **Council member Stowe moved to move forward with the grant for pickleball courts at the old Elementary School property. Council member Porter seconded the motion. Motion carried with Council members Stowe, Porter, Orme and Wilson voting aye.**

Council member Lyman arrived at this time.

OPEN AND PUBLIC MEETINGS ACT TRAINING WITH ESCALANTE PLANNING AND ZONING COMMISSION AND ESCALANTE CEMETERY MAINTENANCE DISTRICT BOARD.

Roger Carter with Five County Associations provided an Open and Public Meetings Act training for the City Council, Planning and Zoning Commission and the Escalante Cemetery Maintenance District.

DEPARTMENT REPORTS **ADMINISTRATIVE**

City Recorder Steed said the budget and financial reports are available for review.

PUBLIC WORKS DEPARTMENT

The Public Works Department was not present at said meeting.

FIRE DEPARTMENT **BILL WEPPNER**

Mr. Weppner said since the last meeting the Fire Department has assisted 506 with some carry-outs and providing drivers for the ambulance.

Mr. Weppner said they have received all the new turnouts and distributed them to the Fire Fighters. Mr. Weppner said they are keeping some of the best used turnouts for future members.

Mr. Weppner said they are still Lacking some of the hose supply they ordered with the grant money.

Mr. Weppner said they are still having issues with the paging system.

COUNCIL REPORTS

MAYOR MELANI TORGENSEN

Mayor Torgersen said next year is Escalante's 150-year celebration. Mayor Torgersen said she feels that the community's 150th year celebration should be a city-sponsored event, potentially involving decorations and activities around the 24th of July.

Mayor Torgersen said she would like to have some work meetings to start working on the 2025-2026 budget. This item was discussed and City Recorder Steed will schedule a work meeting for March 18, 2025.

JARED DUNTON GARFIELD COUNTY SHERIFFS OFFICE

Deputy Dunton reported things have been slow on the East side of the County but the West side has been busy with traffic. Deputy Dunton said things at the Sheriff's office are good and they are happy with their schedules.

COUNCIL MEMBER CHAD LYMAN

Council member Lyman said he and Council member Wilson discussed the ongoing work on the water tank road, including cleaning out the pond, redoing the ditch and putting in a culvert.

Council member Lyman said he has contacted the Utah Division of Transportation (UDOT) and Garfield County road crew about chip sealing our roads this year. Council member Lyman said the County has been helpful and he appreciates them.

COUNCIL MEMBER LENZA WILSON

Council member Wilson had nothing to report at this time.

COUNCIL MEMBER BLAINE PORTER

Council member Porter had nothing to report at this time.

COUNCIL MEMBER MARLENE STOWE

Council member Stowe said she would like to look at fixing up the Old Community Center so the City can rent it out for events. Council member Stowe said Mayor Torgersen has been in contact with Callie Ward from Garfield County to help us look for a grant. Council member Stowe said we need to take out the old carpet and replace the windows.

COUNCIL MEMBER SALLY ORME

Council member Orme had nothing to report at this time.

UNPAID BILLS

Council member Porter moved to pay the unpaid bills. Council member Orme seconded the motion. Motion carried with Council members Stowe, Orme, Lyman, Wilson and Porter voting aye.

EXECUTIVE SESSION

There was no executive session needed at this time.

Council member Orme moved to adjourn the meeting at 6:50 p.m.

Council member Porter seconded the motion. Motion carried with all in favor.

Stephanie Steed, MMC
City Recorder

Date minutes approved: 03/18/2025