

# UTAH GROWING WATER SMART

## INTEGRATING WATER AND LAND USE PLANNING: Community Self-Assessment

### ***Purpose of this Assessment***

The very first step in becoming water smart is understanding your current conditions. This self-assessment is designed to guide your community through a data and document gathering process that will help inform your community's integrated water and land use planning efforts and actions. For purposes of this assessment, "community" means the city, county, or conservancy district that your team is representing at the Growing Water Smart Workshop. The capacity of your community and history of planning will influence the thoroughness of the data available. Please collect as much existing data as possible on your current conditions. Responses to this self-assessment do not need to be comprehensive status reports. Keep responses high-level and brief enough to help guide your team discussions and provide links to documents or page citations so that you can easily dive deeper when it is appropriate.

There is no expectation for you to gather data that you do not currently have. In cases where you do not have information, simply acknowledge what you do not know. Communities with more capacity or a longer history of planning are likely to have invested more resources in studies that provide them with a more comprehensive understanding of their water and land use resources.

### ***Assessment Organization***

The self-assessment is organized into four main parts which are designed for several different representatives from your planning department, public works, and/or water utilities to complete. Two additional parts provide space for you to record information on contacts as well as additional information and questions.

**PART 1** gathers data related to economic, environmental, and social trends that influence your community's water sources and water uses, such as drought, population and economic growth rates. This information is likely to be found in current planning documents (e.g., general plan, economic development documents, climate adaptation plan, drought plan, or emergency preparedness plan). Oftentimes, data on these trends are available on various state and regional websites such as: the Governor's Office of Planning and Budget (e.g., economic analyses and [planning and funding resources](#)); the Utah Divisions of Water Resources (e.g., [Water Reports](#)); Water Rights (e.g., [Groundwater Management Plans](#)); Water Quality (e.g., [information on drinking water](#)); [water conservancy districts](#); and state university institutes (e.g. [Kem C. Gardner Policy Institute](#), the [Janet Quinney Lawson Institute for Land, Water and Air](#)).

*Note: Sources of data for this section will likely be the **planning department**.*

**PART 2** gathers information that is typically found in water planning documents about your water supply and demand. Depending upon the capacity of your community, you may not have all this information available. Several questions reference your community's water provider, which is a broad category that can include retail, wholesale, or other types of public water providers. Because each community is different, it will be important to figure out if this data comes from one or multiple types of water providers and to consult each one appropriately.

*Note: Sources of data will likely be the **water utilities or water resource managers**.*

**PART 3** gathers information on current water conservation and efficiency efforts included in water and land use policies, plans, and implementing ordinances and regulations.

*Note: Sources of data will likely be the **planning department and water utilities or water resource managers**.*

**PART 4** gathers information regarding your community's current land use policies and regulations that are most likely to link water and land use beyond traditional water conservation and efficiency standards. This information includes understanding water sources and uses within your jurisdiction and connecting your community's water future to growth patterns, water quality, and watershed health.

*Note: Sources of data will likely be the **planning department or planning commission and water utilities or water resource managers**.*

**PART 5** provides space for you to make notes on departments and people other than the ones represented on your team who you want to work with on integrating land and water.

**PART 6** provides space for you to record additional comments and questions you may have as you go through the assessment.

**PART 7** is a compendium of community examples and resource materials which are references to identified best practices for integrated water and land use planning covered in this assessment.

### ***Instructions for Filling Out the Assessment***

Under each part of the assessment is a series of questions. The questions have been formatted into small tables to help your team keep your responses and associated information together and organized.

Here is how they are organized:

- *Numbered questions*: the questions appear in blue shaded rows and are bolded and numbered by section.
- *Space for your responses*: Please enter your responses in the white rows after each question. These rows are expandable so you can type however much you want/need to provide information that will be useful for your team.
- *Information sources*: The first gray row is for you to keep track of relevant information sources. You can put links to documents, data sources, or key people to contact in this row.
- *Notes*: The second gray row is for your team to use in making any notes.

## Community Team Information

|   |  |
|---|--|
| <b>COMMUNITY:</b>                           |  |
| <b>Team Members:</b><br><i>(List Names)</i> |  |

## PART 1: Understanding Trends that Influence Water Sources and Water Uses

This section focuses on the economic, environmental, and social changes or trends that are influencing your community's water sources, uses, and needs. *Sources of data for this section will likely be the planning department.*

|                             |  |
|-----------------------------|--|
| <b>A1.</b>                  | <b>What is your community's overall growth trend? Are you growing, stable, declining, or perhaps shifting in some way?</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>A2.</b>                  | <b>What changes in economic sectors (e.g., agricultural, commercial, industrial, residential) are occurring?</b> <i>[Examples: agricultural land transitioning to urban development, an increase in industrial development, growth in a particular sector like tourism or manufacturing, etc.]</i> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|            |   |
|------------|---|
| <b>A3.</b> | <b>What demographic changes are taking place in your community?</b><br>a. Is your population growing, declining, diversifying, getting younger, aging?<br>b. What is your population growth rate? |
|            |   |

|                             |
|-----------------------------|
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

|                             |   |
|-----------------------------|---|
| <b>A4.</b>                  | <p><b>Where are you growing, and how?</b></p> <p>a. Where is most new development locating?</p> <p>b. What are the most frequent types of development applications?</p> <p><i>[Examples: major subdivisions, multi-family projects, redevelopment, infill.]</i></p> |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|  |  |
|--|--|
| <b>A5.</b>   | <p><b>In the past five years, have any of the following extreme events impacted your water situation and water security?</b> <i>If yes, check the appropriate boxes and please provide short descriptions.</i></p> |
| <p><input type="checkbox"/> Heat waves:</p> <p><input type="checkbox"/> Droughts:</p> <p><input type="checkbox"/> Fires:</p> <p><input type="checkbox"/> Floods:</p> <p><input type="checkbox"/> Other (<i>specify</i>):</p> <p><input type="checkbox"/> Other (<i>specify</i>):</p> |  |
| <b>Information Sources:</b>  |  |
| <b>Notes:</b>  |  |

|            |   |
|------------|---|
| <b>A6.</b> | <p><b>What specific community environmental concerns or priorities do you need to consider in your planning processes?</b> <i>[Examples: low stream flows, declining lake or reservoir levels, decreasing snowpack, drought conditions, water temperature issues, water quality concerns, recreational uses, increased flooding.]</i></p> |
|------------|---|

|                             |
|-----------------------------|
|                             |
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

**Thank You for Completing PART I of this Assessment! Don't forget to check the compendium of Helpful Resources at the end in PART 7.**

## PART 2: Your Current Water Supply & Demand

This section focuses on information that is typically found in water planning documents about your water supply and demand. *Sources of data will likely be the water utilities or water resource managers.*

|   |   |
|---|---|
| <b>B1.</b>  | <b>What is your total current and projected supply and demand in acre feet?</b> |
| <ul style="list-style-type: none"> <li>● Current supply (dry year average):</li> <li>● Projected supply (for what year):</li> <li>● Current demand:</li> <li>● Projected demand (for what year):</li> </ul> |   |
| <b>Information Sources:</b>   |   |
| <b>Notes:</b>   |   |

|                             |   |
|-----------------------------|---|
| <b>B2.</b>                  | <b>What studies or plans summarize your water supply and/or demand?</b> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |   |
|-----------------------------|---|
| <b>B3.</b>                  | <b>Who are your major water providers (retail, wholesale, secondary, or other)?</b>                                       |
| a.                          | Are any of your water providers required to have a <a href="#">Public Water Supplier 40 Year Water Requirement Plan</a> ? |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |  |
|-----------------------------|--|
| <b>B4.</b>                  | <b>How would you characterize your water supply? If known, provide a percentage breakdown of the sources of that supply. [Examples: surface water, groundwater, springs, secondary water, wells, reuse, conservation.]</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|  |  |
|--|--|
| <b>B5.</b>   | <b>What is the sector breakdown of your current water demand? Provide the information in acre feet (AF), percentage breakdowns (%), or other measurements relevant to your supplies.</b> |
| <ul style="list-style-type: none"> <li>● Agriculture:</li> <li>● Commercial/Industrial/Institutional (CII):</li> <li>● Residential:</li> </ul> |  |
| <b>Information Sources:</b>  |  |
| <b>Notes:</b>  |  |

|                             |   |
|-----------------------------|---|
| <b>B6.</b>                  | <b>How do your water provider(s) project future demands? [Examples: scenario planning, population projections, local or regional economic development plans, other ways.]</b> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|            |  |
|------------|--|
| <b>B7.</b> | <b>How do your water provider(s) engage with land use planners to project future water demands? [Examples: general plan updates, future land use mapping, capital improvement planning and programming, major project reviews and/or approvals.]</b> |
|            |  |

|                             |
|-----------------------------|
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

|                             |  |
|-----------------------------|--|
| <b>B8.</b>                  | <b>How does your water provider(s) engage with local, regional, and state economic development agencies to project future water demands? [Examples: market feasibility studies and analyses, site selection, infrastructure planning, impact studies.]</b> |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |   |
|-----------------------------|---|
| <b>B9.</b>                  | <b>What is the structure of your water system development charges/tap fees/impact fees? Do they incentivize conservation?</b> |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |   |
|-----------------------------|---|
| <b>B10.</b>                 | <b>Please provide information on your current gallons per capita per day (GPCD). If you use other criteria to measure water use and efficiency, include those instead or in addition.</b> |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |  |
|-----------------------------|--|
| <b>B11.</b>                 | <b>Describe any additional water supply acquisitions, storage projects, groundwater recharge areas, or other infrastructure improvements being considered to meet future water demand.</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

**Thank You for Completing PART 2 of this Assessment! Don't forget to check the compendium of Helpful Resources at the end in PART 7.**

## PART 3: Your Water Conservation & Efficiency Programs

This section focuses on information on current water conservation and efficiency efforts included in water and land use policies, plans, and implementing ordinances and regulations. *Sources of data will likely be the planning department or planning commission and water utilities or water resource managers.*

|  |   |
|--|---|
| <b>C1.</b>   | <b>Does your community have any of the following supporting plans that include elements on water conservation and resource management?</b> <i>(Check all that apply and provide references to them in the Information Sources section.)</i> |
| <input type="checkbox"/> Water conservation plan<br><input type="checkbox"/> Drought management plan or preparedness plan<br><input type="checkbox"/> Climate action, adaptation, and resiliency plan<br><input type="checkbox"/> Sustainability plan<br><input type="checkbox"/> Open space, riparian or environmentally sensitive areas plan<br><input type="checkbox"/> Emergency preparedness plan<br><input type="checkbox"/> Floodplain management plan<br><input type="checkbox"/> Economic development plan (that takes water into account)<br><input type="checkbox"/> Other (specify): |   |
| <b>Information Sources:</b>  |   |
| <b>Notes:</b>  |   |

|   |   |
|---|---|
| <b>C2.</b>  | <b>Do your community's water providers conduct any of the following water conservation programs?</b> <i>(Check all that apply and provide references to them in the Information Sources section.)</i> |
| <input type="checkbox"/> Conservation education for consumers<br><input type="checkbox"/> Rebates for fixtures, appliances, and/or outdoor irrigation<br><input type="checkbox"/> Water efficient product giveaways<br><input type="checkbox"/> Localscapes incentives (cash for grass/turf replacement)<br><input type="checkbox"/> Landscaping education for landscaping professionals<br><input type="checkbox"/> Indoor water audits and/or outdoor irrigation audits |   |

|  |
|--|
| <input type="checkbox"/> Rainwater harvesting<br><input type="checkbox"/> Culinary water metering (e.g., upgrades; AMI systems; related info. provision to customers)<br><input type="checkbox"/> Secondary water metering<br><input type="checkbox"/> Conservation-oriented rate structuring<br><input type="checkbox"/> Commercial, industrial, or institutional water conservation innovations<br><input type="checkbox"/> Other (specify): |
| <b>Information Sources:</b>  |
| <b>Notes:</b>  |

|  |  |
|--|--|
| <b>C3.</b>   | <b>If your water providers use rate structuring to promote water conservation, identify and describe which of the following approaches they use.</b> |
| <input type="checkbox"/> Drought Demand Pricing: Rates are higher during drought periods<br><input type="checkbox"/> Excess Use: Rates are higher for above average water use<br><input type="checkbox"/> Inclining Block: Rate per block increases as water use increases<br><input type="checkbox"/> Indoor/Outdoor: w/ separate meters, rates for indoor use are lower than rates for outdoor use<br><input type="checkbox"/> Penalties: Customers are charged for exceeding allowable limits of water<br><input type="checkbox"/> Scarcity Pricing: The costs of developing new supplies are added to bills<br><input type="checkbox"/> Seasonal Pricing: Water rates are higher during the summer<br><input type="checkbox"/> Sliding Scale: The unit price increases based on an average consumption<br><input type="checkbox"/> Spatial Pricing: Water rates are determined by the costs of supplying water to specific locations<br><input type="checkbox"/> Time-of-Use: Water rates are higher during peak days or specific hours of the week<br><input type="checkbox"/> Water Budget: Block rates are defined for each individual customer based on efficiency levels<br><input type="checkbox"/> Other (specify): |  |
| <b>Information Sources:</b>  |  |
| <b>Notes:</b>  |  |

|                             |   |
|-----------------------------|---|
| <b>C4.</b>                  | <b>Describe any assessments that have been conducted on the effects of water conservation and integrated land use planning.</b> <i>[Examples: increased revenue, less water infrastructure needs, more water available for the environment]</i> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |   |
|-----------------------------|---|
| <b>C5.</b>                  | <b>Does your community have water efficiency, conservation, or optimization targets?</b> <i>Please elaborate.</i> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

**Thank You for Completing PART 3 of this Assessment! Don't forget to check the compendium of Helpful Resources at the end in PART 7.**

## PART 4: Assessing the Planning and Policy Enabling Environment for Integrating Land and Water

This section focuses on information regarding your community’s current land use policies and regulations that are most likely to link water and land use to future growth beyond traditional water conservation and efficiency standards. *Sources of data will likely be the planning department or planning commission and water utilities or water resource managers.*

### GENERAL PLAN QUESTIONS

|                             |  |
|-----------------------------|--|
| <b>D1a.</b>                 | <b>Your General Plan:</b><br>a. What is the date on your General Plan currently in use?<br>b. When is your General Plan scheduled to be updated? |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|  |  |
|--|--|
| <b>D2a.</b>  | <b>Identify which topics below are addressed in your current General Plan or are being considered for a new plan update. (Check all that apply and provide references to them in the Information Sources section.)</b> |
| <ul style="list-style-type: none"> <li><input type="checkbox"/> Sustainable water supply and/or demand management</li> <li><input type="checkbox"/> Water quality and water source protection</li> <li><input type="checkbox"/> Water conservation and efficiency</li> <li><input type="checkbox"/> Designated growth areas connected to adequate public infrastructure</li> <li><input type="checkbox"/> Promotion of compact development, infill, and redevelopment</li> <li><input type="checkbox"/> Ensuring adequate water supplies for environmental needs in the watershed</li> <li><input type="checkbox"/> Impacts of natural hazards and climate change, and mitigation and adaptation responses</li> <li><input type="checkbox"/> Sustainability and green building practices</li> <li><input type="checkbox"/> Drought preparedness and management</li> <li><input type="checkbox"/> Wastewater management (“one water” approaches, greywater reuse, and water recycling)</li> <li><input type="checkbox"/> Floodplain and stormwater management</li> <li><input type="checkbox"/> Green infrastructure</li> </ul> |  |

|  |
|--|
| <input type="checkbox"/> Low Impact Development (LID)<br><input type="checkbox"/> Groundwater management and protection<br><input type="checkbox"/> Other (specify): |
| <b>Information Sources:</b>  |
| <b>Notes:</b>  |

|                             |  |
|-----------------------------|--|
| D3a.                        | <p><b>Does your General Plan contain a specific water element?</b> <i>(This element may be an entire chapter or a subsection of a chapter.)</i></p> <p>a. <b>If yes, briefly describe what the element addresses.</b></p> <p>b. <b>Does this element address the provisions of <a href="#">Senate Bill 110 “Water as Part of General Plan”</a>, in Utah Municipal Code Title 10, Chapter 9a, Part 4 assessing effects of development on water demand and water infrastructure, and methods of reducing demand and water waste?</b></p> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |   |
|-----------------------------|---|
| D4a.                        | <p><b>Is water holistically addressed as a consideration in other General Plan elements.</b> <i>Please elaborate key areas.</i></p> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|      |   |
|------|---|
| D5a. | <p><b>What goals in your General Plan specifically address water conservation and efficiency?</b></p> |
|      |   |

|                             |
|-----------------------------|
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

|                             |  |
|-----------------------------|--|
| <b>D6a.</b>                 | <b>Which regulations/ordinances have been updated or need to be updated to implement the water conservation goals in your General Plan?</b> <i>[Examples: outdoor water schedules and limits, turf reductions, etc.]</i> |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>D7a.</b>                 | <b>Please describe how water goals and policies in your General Plan are consistent with your water utility's water efficiency plans and policies.</b> |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |   |
|-----------------------------|---|
| <b>D8a.</b>                 | <b>Please describe how land use goals and policies in your General Plan are consistent with your water utility/provider's land use and economic development policies.</b> |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|             |  |
|-------------|--|
| <b>D9a.</b> | <b>Please describe how your General Plan quantifies water demand relative to projected population growth, growth centers, and economic initiatives.</b> <i>[Example: demand forecasting]</i> |
|-------------|--|

|                             |
|-----------------------------|
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

|                             |   |
|-----------------------------|---|
| <b>D10a.</b>                | <b>Please describe how the water element (or integrated water elements) of your General Plan is consistent with applicable regional or state water plans. [For example, <a href="#">Utah regional water conservation goals</a>]</b> |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |  |
|-----------------------------|--|
| <b>D11a.</b>                | <b>How does your General Plan consider equity considerations for water? [Examples: addressing climate risk vulnerability for marginalized communities, culturally responsive community engagement, partnering with community-based organizations, addressing water affordability, providing adequate infrastructure in different neighborhoods.]</b> |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>D12a.</b>                | <b>What strategies in your General Plan encourage water efficient land uses and urban forms? [Examples: transit-oriented development (TOD), designated growth areas, density bonuses, cluster development, accessory dwelling units (ADUs), adaptive reuse and mixed use, and volume/demand-based tap fees.]</b> |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |   |
|-----------------------------|---|
| <b>D13a.</b>                | <b>How does your General Plan address water efficient, climate appropriate landscaping?</b> <i>[Examples: soil quality improvements, low water use plant lists, turf limitations, irrigation system efficiency requirements, public ROW xeriscaping, and open space options that are not water intensive (e.g., natural trail system).]</i> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

**DEVELOPMENT PROCESS QUESTIONS - Adequate Water Supply**

|                             |   |
|-----------------------------|---|
| <b>D1b.</b>                 | <b>How do your development regulations consider water impacts and address the provision of an adequate and sustainable water supply in the review and approval process for new development? Please describe some of the requirements for rezonings, development project approvals, permits, etc.</b> <i>[Examples: definition of “supply”, time period for water availability, legal/physical availability, etc.]</i> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |  |
|-----------------------------|--|
| <b>D2b.</b>                 | <b>At what points in the development process is proof of adequate water availability and efficiency required and considered?</b> <i>[Examples: application review, entitlement (e.g., zoning, use permit, development agreement), preliminary plat, final plat, site plan approval, design guidelines and review, building permits, construction.]</i> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|             |  |
|-------------|--|
| <b>D3b.</b> | <b>Which agencies, departments, and boards are consulted to evaluate the water needs of new development?</b> <i>[Examples: State Engineer’s Office, planning staff, planning commission, public works, water provider, design review board.]</i> |
|-------------|--|

|                             |  |
|-----------------------------|--|
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>D4b.</b>                 | <b>Do land use planners have regular communication with the major public water suppliers in your community? If yes, how does this communication occur and who does it involve?</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>D5b.</b>                 | <b>Are zoning stipulations and/or development agreements used to ensure reasonable conservation and water demand management measures are included in project approvals? <i>Please elaborate.</i></b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>D6b.</b>                 | <b>How do new major economic development projects assess and prove water availability?</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|             |  |
|-------------|--|
| <b>D7b.</b> | <b>How are water supply and management impacts considered in proposed annexation projects?</b> |
|-------------|--|

|                             |
|-----------------------------|
|                             |
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

**DEVELOPMENT CODE QUESTIONS –Development, Design and Construction**

|                             |   |
|-----------------------------|---|
| <b>D1c.</b>                 | <b>What site development standards address water quality protection in your Development Code?</b><br><i>[Examples: limiting development in sensitive areas (e.g., wetlands), stream buffers/setbacks, riparian corridor standards, soil erosion mitigation standards, reductions in impervious cover, better soil erosion protection, and low-impact development stormwater management, etc.]</i> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |  |
|-----------------------------|--|
| <b>D2c.</b>                 | <b>Which Development Code policies encourage sustainable, compact land use, and concentrate development within growth centers?</b> <i>[Examples: higher density/smaller lot sizes, cluster development, mixed use, housing types, development incentives for water efficiency, etc.]</i> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |   |
|-----------------------------|---|
| <b>D3c.</b>                 | <b>Do you use special districts or overlay zones to advance water supply and conservation priorities, such as ones related to groundwater protection/recharge, wellhead protection, or stormwater management?</b> <i>If yes, please describe.</i> |
|                             |   |
| <b>Information Sources:</b> |   |

**Notes:**

|                             |   |
|-----------------------------|---|
| <b>D4c.</b>                 | <b>How is water conservation and efficiency considered in your ordinances and code for subdivisions and planned development/Planned Unit Developments (PUDs)?</b> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|                             |  |
|-----------------------------|--|
| <b>D5c.</b>                 | <b>Do you have sustainable development policies that relate to water conservation and efficiency in your codes and ordinances?</b> <i>[Examples: green building, net-zero building/zero runoff policies, specific design guidelines, smart development overlay zoning]</i> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |   |
|-----------------------------|---|
| <b>D6c.</b>                 | <b>How do you incentivize/encourage sustainable development and water efficiency in your codes and ordinances?</b> <i>[Examples: reducing permit fees, in-lieu-fee agreements, density bonuses, density transfers, expedited permitting.]</i> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

**DEVELOPMENT CODE QUESTIONS - Efficient Outdoor Water Use**

|             |   |
|-------------|---|
| <b>D1d.</b> | <b>Which of the following landscaping standards to reduce outdoor water use are included in your Development Code?</b> <i>(Check all that apply and provide references to them in the Information Sources section.)</i> |
|-------------|---|

- Requirement for a landscape plan
- Plant materials standards
- Turf limitation or specification (e.g., type of turf or turf square footage maximum)
- Total landscaped area square footage maximum (e.g., max amount of landscaping vs. hardscape)
- Plant selection standards or plant lists (e.g., native shrubs, perennials and trees, xeriscape, suitable plants for hydrozones)
- Soil enhancements and mulching requirements
- Live vegetation requirements or other means of reducing urban heat island effects
- Water efficient irrigation standards
- Irrigation efficiency practices (e.g., drip, bubblers, low flow sprinklers, rain and/or ET sensors)
- Water schedules for outdoor irrigation to reduce demand and/or evapotranspiration (e.g., time of day, day of week, seasonal)
- Water budgets for outdoor water use (limitations on allowable water consumption in a landscape area)
- Rainwater harvesting
- Greywater reuse
- Site inspections
- Streetscape/parking lot standards
- Xeriscape or Localscapes standards
- Low Impact Development (LID)/rain garden best practices
- Water conservation ordinance
- Water waste limitations
- Code enforcement and fines for violations of standards
- Other (*specify*):

**Information Sources:**

**Notes:**

|                             |  |
|-----------------------------|--|
| <b>D2d.</b>                 | <b>Does your Development Code include provisions for how HOAs manage landscapes on their property?</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|                             |  |
|-----------------------------|--|
| <b>D3d.</b>                 | <b>Do any of your codes include any regulations, restrictions, or requirements that might prevent a property owner from installing water efficient landscapes?</b> |
|                             |  |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

***BUILDING & PLUMBING CODE QUESTIONS - Efficient Indoor Water Use***

|                             |   |
|-----------------------------|---|
| <b>D1e.</b>                 | <b>What current plumbing and building codes are you using? (e.g., International Plumbing Code, state plumbing code)</b> |
|                             |   |
| <b>Information Sources:</b> |   |
| <b>Notes:</b>               |   |

|             |  |
|-------------|--|
| <b>D2e.</b> | <b>Does your code have additional water efficiency standards that promote water conservation for Commercial, Industrial, Institutional (CII) uses?</b> |
|             |  |

|                             |
|-----------------------------|
| <b>Information Sources:</b> |
| <b>Notes:</b>               |

|                             |  |
|-----------------------------|--|
| <b>D3e.</b>                 | <b>Provide information on any additional commercial standards for high water consumption uses, such as car washes, golf courses, hotels, restaurants, laundromat, etc. [Examples: pre-rinse spray valves, water recycling or greywater, cooling systems, water saving signage, etc.]</b> |
| <b>Information Sources:</b> |  |
| <b>Notes:</b>               |  |

|   |  |
|---|--|
| <b>D4e.</b>   | <b>Does your code include any of the following plumbing and building water saving standards? (Check all that apply and provide references to them in the Information Sources section.)</b> |
| <input type="checkbox"/> Metering for commercial and single-family units for new development connections<br><input type="checkbox"/> Submetering for multi-family units for new development connections<br><input type="checkbox"/> Incentive for new development to incorporate additional water efficient fixtures, appliances, plumbing above the required standard.<br><input type="checkbox"/> Requirement for plumbing fixture retrofit on resale or for rehabilitation of property to receive certificate of occupancy or as a fee incentive for new development.<br><input type="checkbox"/> Tap availability limitations |  |
| <b>Information Sources:</b>   |  |
| <b>Notes:</b>   |  |

**Thank You for Completing PART 4 of this Assessment! Don't forget to check the compendium of Helpful Resources at the end in PART 7.**

## **PART 5: Key Contacts for Integrating Land and Water**

Use this space to make team notes on departments and/or personnel (other than those represented on your team) who will be important for working on integrating land and water.

- 
- 
- 

## **PART 6: Additional Comments and Questions**

If you have any final comments about your water conservation and integrated planning efforts, and/or if you have specific questions that you would like answered in the workshop, please list them here.

- 
- 
- 

**Thank You for Completing this Assessment!**

**A compendium of Helpful Resources is included in the last section, PART 7.**

## PART 7: Helpful Resources and Community Examples

| Topic  | Resources  | Community Examples   |
|--|--|--|
| Water Supply / Demand Plans  |  | <a href="#">City of Orem Water Master Plan 2017</a><br><br><a href="#">City of Logan Drinking Water System Master Plan 2016</a><br><br><a href="#">South Salt Lake City Water Master Plan</a>                            |
| Projecting Water Demand  | Utah DWR <a href="#">Resources</a><br><br>Great Salt Lake Advisory Council ,<br><a href="#">2019 Great Salt Lake Integrated Model</a><br><br>Kem C. Gardner Policy Institute<br><a href="#">Population Projections</a>   |  |
| Water Provider and Land Use Engagement                                   | Lincoln Institute's <a href="#">Incorporating Water into Comprehensive Planning</a> (pg.31)  |  |
| Water System Development Charges   | <a href="#">WRA Water System Development Charge Guidebook</a>  |  |
| Supporting Plans that Address Water Conservation and Resource Management | UT DWR <a href="#">Conserve Water</a><br><br>WRA <a href="#">Guidebook</a> , Chapter 3, pg. 22<br><br>Utah DWR Water Conservation Plan<br><a href="#">Resources</a><br><br>Utah DNR Drought Management<br><a href="#">Toolkit</a><br><br>UT DWR <a href="#">Climate Change, Water Resources, and Potential Adaptation Strategies in Utah</a> | <a href="#">South Jordan City Water Conservation Plan</a><br><br><a href="#">SLC's Climate Plan</a><br><br><a href="#">SLC's Sustainability Plan</a><br><br><a href="#">City of Bluffdale Floodplain Management Plan</a> |
| Water Conservation Programs  | AWE <a href="#">Reports and Resources</a><br><br>Utah DWR <a href="#">Conserve Water</a><br><br>UT DWR <a href="#">Slow the Flow</a><br><br><a href="#">Localscapes Design</a><br><br><a href="#">Utah's Water-Wise Pledge</a>   | Spanish Fork <a href="#">Smart Controller Project &amp; Tap into Resilience Case Study</a><br><br>Jordan Valley Water Conservancy District Flip Your Strip   |

| Topic   | Resources  | Community Examples |
|---|--|--------------------|
|   | <p>UT DNR <a href="#">Lawn Watering Guide</a></p> <p>USU Extension <a href="#">In Home Conservation</a></p> <p>UT DWR <a href="#">Utah Water Savers Programs &amp; Rebates</a></p> <p>Utah Water Savers: <a href="#">UT Water Savers Localscapes Rewards</a></p> <p>Bureau of Reclamation's <a href="#">WaterSMART Water &amp; Energy Efficiency Grants and Small-Scale Water Efficiency Grants</a></p> <p>QWEL <a href="#">Program Overview &amp; Utah State QWEL Program</a></p> <p>UT State <a href="#">WaterCheck Program</a></p> <p>USU Extension <a href="#">Rain Barrels in Utah SB199 Water Amendments</a></p> <p>UT State Extension <a href="#">Guide to Municipal Water Conservation Pricing</a></p> |                    |
| <b>Water Rate Structures</b>                      | <a href="#">WRA Water Rate Structures in Utah</a>  |                    |
| <b>Water Efficiency Targets</b>                   | <a href="#">Utah's Regional M&amp;I Conservation Goals</a>   |                    |
| <b>General Plan Topics Areas Addressing Water</b> | <p>Lincoln Institute's <a href="#">Incorporating Water into Comprehensive Planning</a></p> <p>WRA Webinar 2: <a href="#">Incorporating Water into Comprehensive Plans in UT</a></p>  |                    |
| <b>Water Element in a General Plan</b>            | Lincoln Institute's <a href="#">Incorporating Water into Comprehensive Planning</a> ; pg. 19: The Role of a Water Element  |                    |
| <b>Quantifying Water Demand in General Plan</b>   | Lincoln Institute's <a href="#">Incorporating Water into Comprehensive Planning</a> ; pg. 41: Forecasting Water Supply & Demand  |                    |
| <b>Water Equity Considerations</b>                | <a href="#">CivicWell's Guiding Principles for Equitable Management in Coordinated Planning</a>  |                    |

| Topic  | Resources   | Community Examples   |
|--|---|--|
| Assured Water Supply in Development                    | Green and Castle, 2017, <a href="#">Assured Water Supplies in Western States</a>  |  |
| Water in Development Review and Approval Process       | Sonoran Institute, <a href="#">GWS Water-Land Use Nexus</a> , pg. 14<br>WRA <a href="#">Guidebook</a> , Chapter 9, pg. 176  |  |
| Water Quality Protection in Site Development Standards | WRA <a href="#">Guidebook</a> , throughout<br>Sonoran Institute, <a href="#">GWS Water-Land Use Nexus</a> , Section 4<br><a href="#">UT Dept. of Water Quality Low Impact Development Guidebook</a>   |  |
| Development Code Smart Growth Policies                 | WRA <a href="#">Guidebook</a> , Chapter 7   |  |
| Development Code Efficient Outdoor Water Use           | SMWSA <a href="#">Model Landscape Ordinance</a><br>WRA <a href="#">Guidebook</a> , Chapter 11<br>WRA Webinar 2: <a href="#">Water Efficient Landscape Regulations in UT</a><br>Utah State <a href="#">Center for Water Efficient Landscaping Water Wise Plan Lists &amp; Native Plants for the Intermountain West</a><br>CWEL <a href="#">Transitioning Trees from Traditional to Low-Water Landscapes</a><br><a href="#">UT Rule 401: Greywater Systems</a><br><a href="#">UT Dept. of Water Quality Low Impact Development Guidebook</a><br><a href="#">WRA Land Use Guidebook</a> , Ch. 11 (pg. 203) | CA <a href="#">Model Water Efficient Landscape Ordinance</a><br>Herriman City <a href="#">Water Efficiency Standards</a><br>Sandy City <a href="#">Landscape Regulations</a><br>SL County <a href="#">Landscape Regulations</a><br>SMWSA <a href="#">Model Landscape Ordinance</a><br><a href="#">South Jordan City Code. Ch. 13.04.260 Waste Prohibited</a> |
| Development Code Conservation Policies for CII         | <a href="#">WRA Land Use Guidebook</a> , Ch.10 (pg. 184)  |  |
| Development Code Plumbing and Building Efficiency      | <a href="#">WRA Land Use Guidebook</a> , Ch. 14 (pg. 237)   |  |