

## Option Submittal Form

Contact Information (optional):

Keep my contact information private

Contact Name: _____	Title: _____
Affiliation: _____	
Address: _____	
Telephone: _____	E-mail Address: _____

Date Option Submitted: 2/1/12

Option Name:

Conservation instead of Lake Powell pipeline

Description of Option:

I would like to see a comprehensive study conducted to evaluate water conservation in St. George, UT. It is my opinion that conducting the study, and implementing various water conservation measures such as those used in Las Vegas and Tucson wouldn't cost much, if any, more than what would be spent on the pipeline before one shovel of dirt is dug.

In addition, I suggest that everyone working on the Colorado River Basin Study be given a copy of the book "Compass and Gyroscope: integrating science and politics for the environment" by Kai N. Lee, and that they be encouraged to not only read it but to study it in depth. This book is the primer on Adaptive Management.

**Location:** Describe location(s) where option could be implemented and other areas that the option would affect, if applicable. Attach a map, if applicable.

St. George, UT

**Quantity and Timing:** Roughly quantify the range of the potential amount of water that the option could provide over the next 50 years and in what timeframe that amount could be available. If option could be implemented in phases, include quantity estimates associated with each phase. If known, specify any important seasonal (e.g., more water could be available in winter) and/or frequency (e.g., more water could likely be available during above-average hydrologic years) considerations. If known, describe any key assumptions made in order to quantify the potential amount.

Enough water to allow for at least modest population growth in St. George.

## Additional Information

**Technical Feasibility:** Describe the maturity and feasibility of the concept/technology being proposed, and what research and/or technological development might first be needed.

This has been done in other Southwest cities. It will require education of the people in St. George.

**Costs:** Provide cost and funding information, if available, including capital, operations, maintenance, repair, replacement, and any other costs and sources of funds (e.g., public, private, or both public and private). Identify what is and is not included in the provided cost numbers and provide references used for cost justification. Methodologies for calculating unit costs (e.g., \$/acre-foot or \$/million gallons) vary widely; therefore, do not provide unit costs without also providing the assumed capital and annual costs for the option, and the methodology used to calculate unit costs.

N/A

**Permitting:** List the permits and/or approvals required and status of any permits and/or approvals received.

Unknown at this time, but not near as many as the pipeline would require.

**Legal / Public Policy Considerations:** Describe legal/public policy considerations associated with the option. Describe any agreements necessary for implementation and any potential water rights issues, if known.

Unknown

**Implementation Risk / Uncertainty:** Describe any aspects of the option that involves risk or uncertainty related to implementing the option.

Not a lot of risk.

**Reliability:** Describe the anticipated reliability of the option and any known risks to supply or demand, such as: drought risk, water contamination risk, risk of infrastructure failure, etc.

Water conservation has been successful in many cities.

**Water Quality:** Identify key water quality implications (salinity and other constituents) associated with the option in all of the locations the option may affect.

None to my knowledge.

**Energy Needs:** Describe, and quantify if known, the energy needs associated with the option. Include any energy required to obtain, treat, and deliver the water to the defined location at the defined quality.

Energy Required	Source(s) of Energy
N/A	

**Hydroelectric Energy Generation:** Describe, and quantify if known, any anticipated increases or decreases in hydroelectric energy generation as a result of the option.

Location of Generation	Impact to Generation
none	

**Recreation:** Describe any anticipated positive or negative effects on recreation.

Locations	Anticipate Benefits or Impacts
N/A	

**Environment:** Describe any anticipated positive or negative effects on ecosystems within or outside of the Colorado River Basin.

Locations	Anticipated Benefits or Impacts
Obvious --	

**Socioeconomics:** Describe anticipated positive or negative socioeconomic (social and economic factors) effects.

Obvious

**Other information:** Provide other information as appropriate, including potential secondary benefits or considerations. Attach supporting documentation or references, if applicable.

This really seems to me to be a no-brainer.