

## Water Storage Investment Program Concept Paper Form

Please complete the questions below and return your completed concept paper by email to [cwc@water.ca.gov](mailto:cwc@water.ca.gov) by 5:00 p.m. on March 31, 2016. Completed concept papers should not exceed four pages.

### Contact Information

<b>Contact Name:</b> James Riley
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<b>Agency/Organization Name:</b>
<b>Agency Type (select one):</b> <input type="checkbox"/> Public Agency <input type="checkbox"/> Nonprofit Organization <input type="checkbox"/> Public Utility <input type="checkbox"/> Tribe <input type="checkbox"/> Mutual Water Company <input type="checkbox"/> Local Joint Powers Authority <input checked="" type="checkbox"/> Other: Irrigation District/Water District

### Project Information

<b>Project Name:</b> Littlerock Sediment Removal Project
<b>Project Type:</b> <input type="checkbox"/> CALFED Surface Storage <input type="checkbox"/> Groundwater Storage <input type="checkbox"/> Groundwater Contamination Prevention or Remediation <input type="checkbox"/> Conjunctive Use <input type="checkbox"/> Reservoir Reoperation <input checked="" type="checkbox"/> Local Surface Storage <input checked="" type="checkbox"/> Regional Surface Storage <input type="checkbox"/> Other:
<b>Estimated Project Cost:</b> \$15,000,000
<b>Estimated WSIP Funding Request:</b> \$7,500,000
<b>Please describe your project, including location, water source, facilities, and operations:</b> The Project is needed to increase Palmdale Water District’s water storage capacity. Littlerock Reservoir is a critical part of the larger water resource, treatment, and distribution system operated by PWD to provide service to customers in the City of Palmdale and the surrounding unincorporated communities. The Reservoir also provides debris control and flood protection for downstream areas, as well as recreational opportunities, fish and wildlife enhancement, and serves as a historical and cultural resource. Location of project: Latitude: N 34° 29’ Longitude: W 118° 1’  The project would restore 1,400 acre-feet of lost water storage. The PWD has Table A water rights of 21,000 acre-feet. By implementing this project the District could reduce demand on diversions from tributaries to the Bay Delta.  The proposed action consists of the following three components:  (1) Construction of a subterranean grade control structure within the Reservoir at Rocky Point. (2) Total initial removal of approximately 1,165,000 cubic yards of accumulated sediment from within the Reservoir to restore 1992 design water storage and flood control capacity. This initial removal period would occur over seven years and include annual restoration activities. (3) Ongoing annual sediment removal (estimated at 38,000 cubic yards per year) to maintain Reservoir design capacity, including annual restoration activities.

**Per Water Code section 79753, the Commission may only fund the public benefits of water storage projects. Further, ecosystem improvements must make up 50% of the funded public benefits (Water Code section 79756(b)). What public benefits does your project provide? (select all that apply):**

- Ecosystem Improvements  Water Quality Improvements  Flood Control  
 Emergency Response  Recreation

**Please describe the magnitude of the public benefits and how the project will be operated to provide the public benefits:**

**Water Supply**

- Increased reservoir storage volume of 1,300 acre-feet per year or over a 50 year project life span this would equate to 65,000 ace-feet.
- Increased water supply reliability for Palmdale Water District during times of drought experienced by the State Water Project by offsetting less reliable imported water with more reliable local surface water.

**Reduced Bay Delta demands to help address Bay Delta environmental goals**

**Flood Protection**

- Increased reservoir flood storage of 560 acre-feet

**Habitat Protection**

- Avoidance of “take” of federally endangered species
- Preservation of habitat acres for federally endangered species

**Water Quality**

- Avoidance of 4,835 metric tons of salts imported from outside the Antelope Valley region over the 50 year life cycle of the sediment removal project.
- Avoidance of 14,450 pounds of bromide imported from outside the Region over the life of the project.
- Reduced disinfection by-products (DBPs) in produce water

**Energy Conservation**

- Reduction of 84 million kWh over the 50 year life of the project.

**Water Code section 79752 requires that funded projects provide measurable improvements to the Delta ecosystem or to the tributaries of the Delta. Please describe how your project provides ecosystem improvements in the Delta or tributaries to the Delta:**

By reducing the reliance on the Bay Delta water supplies through implementation of this Project, diversions from tributaries to the Bay Delta could be reduced. Reducing frequency of water diversions would improve conditions to the ecosystem of the Delta and its tributaries.

**Water Code sections 79755 and 79757 require the Commission to make a finding that a project will advance the long-term objectives of restoring ecological health and improving water management for beneficial uses in the Delta prior to allocating funding for a project. Please describe how your project could help advance the long-term objectives of restoring ecological health and improving water management for beneficial uses in the Delta:**

Project would in some years reduce diversions from State Water Project by 1,400 acre-feet

**Please describe any other benefits provided by your project, such as water supply reliability benefits, and the potential beneficiaries:**

The Project would help increase the reliability of water use by the Palmdale Water District by substituting local surface water from Littlerock Reservoir for State Water Project Water Supplies.