



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

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# Million Gallon Tank

## Operations & Maintenance Plan

February 5, 2015



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### OPERATIONS PLAN FOR THE MILLION GALLON TANK

Location	Two Harbors, Catalina Island
Capacity	1,000,000 gallons
Covered	Yes
Type	Welded Steel
Inlet Pipe Size – 10”	Outlet Pipe Size – 10” and 4”
Year Constructed	1967

<b>Emergency Contact Numbers</b>	
State Water Resources Control Board Office	818-551-2004
SCE Catalina Water Operations	
<ul style="list-style-type: none"> <li>• Cooper Cameron, Water Supervisor 310-741-1648</li> <li>• Mike Hiniker, Water Foreman 310-502-1800</li> <li>• Raymond Garcia, Water Foreman 310-874-4256</li> </ul>	
Laboratory – Weck Labs	626-336-2139
Law Enforcement	911
Fire Department	911
SCE Catalina Control Room	310-510-4301

**Brief description**

Southern California Edison owns and operates the Catalina Island drinking water system. The Million Gallon Tank (MGT) is a storage tank directly feeding into the distribution system serving the community of Two Harbors and the USC Research Facility on the west end of the Island.

The MGT level is controlled by an altitude control valve and pressure sustaining valve, which open and close at preset water levels to maintain an adequate and uninterrupted supply of water for potable and fire protection purposes.

The MGT is fed by three groundwater wells, Cottonwood 01A, Cottonwood 02, and Sweetwater. The water from each well is treated

with 12.5% sodium hypochlorite. The system chlorine residual is between 0.20 mg/l and 4.0 mg/l.

## **Routine O&M Procedures**

**Monitoring and inspection of distribution storage facilities** is conducted in accordance with industry standards, best management practices (BMPs), and Waterworks Standards. Under normal operations, a state licensed water distribution system operator will perform routine monitoring and inspection no less than weekly.

Routine monitoring and inspection will be performed to ensure maintenance of an adequate and uninterrupted water supply. Visual observations of the general physical and sanitary conditions of the tank and appurtenant structures will be conducted for any potential sources of contamination, failure, or vandalism.

Additionally, the inlet piping, valves, metering devices, and pressures gauges will be inspected for any indications of abnormal operating conditions. Site security (ladders, hatches, SCADA closet, main valves, etc. locked and secured) will be checked and any suspected breaches, damage, or vandalism to supervision will be reported.

**Check and record water levels in storage tanks.** Adequate levels of potable water to meet peak customer demand will be verified. Appropriate storage levels for emergency supply and fire protection purposes will be maintained. Evidence of overflow will be checked and a visual inspection of the overflow screen will be conducted. Any indications of overflow, leakage, or other abnormal conditions will be recorded.

**Check water quality in storage tanks.** The water in MGT is supplied by three groundwater wells, each of which is chlorinated at the source by 12.5% sodium hypochlorite. No more than two wells are in operation at any given time. A bacteriological sample is collected at each groundwater source each month. The chlorine residual in the tank is checked and recorded no less than weekly.

**Clean and inspect the tank.** The interior of the MGT is inspected and cleaned every three years. An interior inspection and cleaning may be performed more frequently if indicated, following any substantial construction, repair, modification, or draining of the tank.