



LHO Potable Water System Statement of Work

The following documents are incorporated into and made a part this purchase order. Click on the following LIGO Document Control Center (DCC) links to access these documents or go on line to the LIGO Public DCC at <https://dcc.ligo.org/> to access the DCC#.

1.0 Terms:

<u>DCC #</u>	<u>Description</u>
C080185-v1	Laser Interferometer Gravitational Wave Observatory (LIGO) Commercial Items or Services Contract General Provisions California Institute of Technology "Institute", LIGO Rev 11/12/08

2.0 Scope:

LIGO Hanford Observatory requires a vendor to maintain and service our site water systems of which the LIGO Water System ID# 07093A is the potable system. In addition, we have 3 laboratory water systems requiring periodic replacement of resin exchange and carbon tanks.

The LHO potable water system consists of an OSMO 23 R O treatment system with 9 membranes, a carbon filter, a well water holding tank, a potable water holding tank, and chlorine mixing tanks with injection pumps. The Washington State DOH requires routine sampling of the water system.

- Vendor will collect water samples to be tested for Nitrates, Fluorides, Coliform Bacteria as well as any other test mandated by the DOH on a monthly, semi-annual and annual basis. Reports shall be submitted to the Washington State DOH. A copy of the test results shall also be provided to LIGO to the attention of the LHO Site Manager and Facilities Engineer.
- Vendor will provide labor to replace RO membranes.
- Vendor will supply and replace filter cartridges, and charcoal canisters associated with the R O system as needed. Our current usage is approximately 15,000 gallons per month.
- 6 Mixed Bed 3.5 Cu. Ft DI exchange tanks and 3 Carbon 1.5 Cu Ft. tanks shall also be provided. Assume an exchange rate of twice per year for these tanks.

- Supply and application of all chemicals for water treatment shall be the responsibility of the vendor.

- All services shall be performed during regular maintenance periods which are Tuesdays from 8:00 A.M. to 12:00 P.M, unless called upon for an emergency situation.

- Bidding of this contract requires a site visit.