

Request for Proposal

Merced Irrigation District

To: Interested Agencies
From: Madeline Brown, Project Coordinator
CC: Dr. J. Viers, Engineering Consultant
Date: 11/01/2022
Re: Boat Ramp Siting and Volume Estimations



The Merced Irrigation District (MeID) has received a state grant via the California Department of Parks and Recreation Division of Boating and Waterways to install a new floating boat dock on the eastern shore of Lake Yosemite.

A partner agency will be designing and constructing the dock facilities. MeID is specifically in need of a *site suitability analysis* to identify two (2) potential sites for the future dock and the calculation of surface volume using two methods: IDW and Kriging. MeID has the following data available for the analysis.

Provided Data:

- Digital Elevation Model
- Low water year TIFF
- High water year TIFF
- Existing road
- Sonar bathymetric data

The potential dock sites must meet the following criteria:

- Elevation between referenced high and low water years
- Minimum area of 15 meters by 30 meters for development
- Cannot be within 8 meters of a protected vernal pool
- Within 100 meters of existing road
- Be presented in the referenced poster format for consideration at Legal Wide Size.
- ArcPy code or ModelBuilder for future utilization and replicability

Responses for this Request for Proposal are due via the MeID submission website, Catcourses, by December 11, 2022 at 11:59pm.

Supplemental Files:

- Readme.doc
- ReportPosterTemplate.pdf
- Data Available at:

<https://ucmerced.box.com/s/51ypzwpq50u8j4otpn34nkw6zktvroh>