

From: Matt Porter; Muir Beach LAN (MBL)—Senior Technical Engineer
To: BCPUD Board of Directors
Date: Wed, Aug 14, 2024
Subject: Request for MBL to install Internet Repeater at BCPUD's Water Treatment Site

Background:

Muir Beach LAN provides Internet service to the BCPUD at the following locations: Office building at 270 Elm, the Ponds facility at 101 Mesa Rd, and the Water Treatment facility at 400 Mesa Rd. All wireless connections from Muir Beach LAN require line of sight between each location's receiver and the nearby wireless transmitter. Line of sight upstream of the Water Treatment Facility at 400 Mesa Road is becoming impaired, specifically on the wireless hop from Commonweal to a barn at the Niman Ranch (Niman Barn), where trees have grown into the previously clear line of sight. (The Water Treatment Facility then receives its Internet service from the Niman Ranch Barn.) The trees in question are very tall, on National Park Service (NPS) property, and not able to be removed or trimmed. Muir Beach LAN has identified a location on the upper part of the BCPUD property at the Water Treatment Facility, inside the fence line, that has open line of sight from Commonweal, as well as open line of sight to the Niman Ranch barn.

Request:

Muir Beach LAN requests permission to install a solar-powered repeater (single solar panel) at this location, which would in essence go around the problem trees, providing unimpaired line of sight service to the Niman Barn, which then in turn provides service to the Water Treatment Facility, as well as other MBL customers in the surrounding area.

Please see example photo and location in question on the subsequent page.

An example of a solar powered Internet repeater site at another location:



400 Mesa Property with the green dot at the proposed location of the repeater site.

