

CB-40 Data Buoy

A data buoy system shall be provided to monitor the water quality in (Specify Location).

The buoy flotation shall be constructed of a closed cell, cross-linked polyethylene foam hull with a polyurea skin and Kevlar reinforced top coat providing 40 lbs of buoyancy. The flotation shall be yellow in color in accordance with international data buoy standards.

The buoy structure shall consist of an internal type 304 stainless steel frame, (3) topside lifting eyes and subsurface bow shackle for single-point mooring. The frame shall include a 4" diameter instrument pipe with slotted holes for water flow.

The buoy shall be lightweight, portable and easy to deploy by a single person.

The buoy shall accommodate a battery-operated water quality instrument including, but not limited to YSI 6-Series and EXO sondes, Hydrolab Series 5 & HL sondes, Eureka Sub 2 and Manta 2 sondes, and In-Situ Aqua TROLL 600 sondes.

The buoy shall include a pre-drilled top plate for mounting a 1-3 nautical mile range LED beacon.

The complete data buoy system shall be Series CB-40 as manufactured by NexSens Technology, Inc. or approved equal.