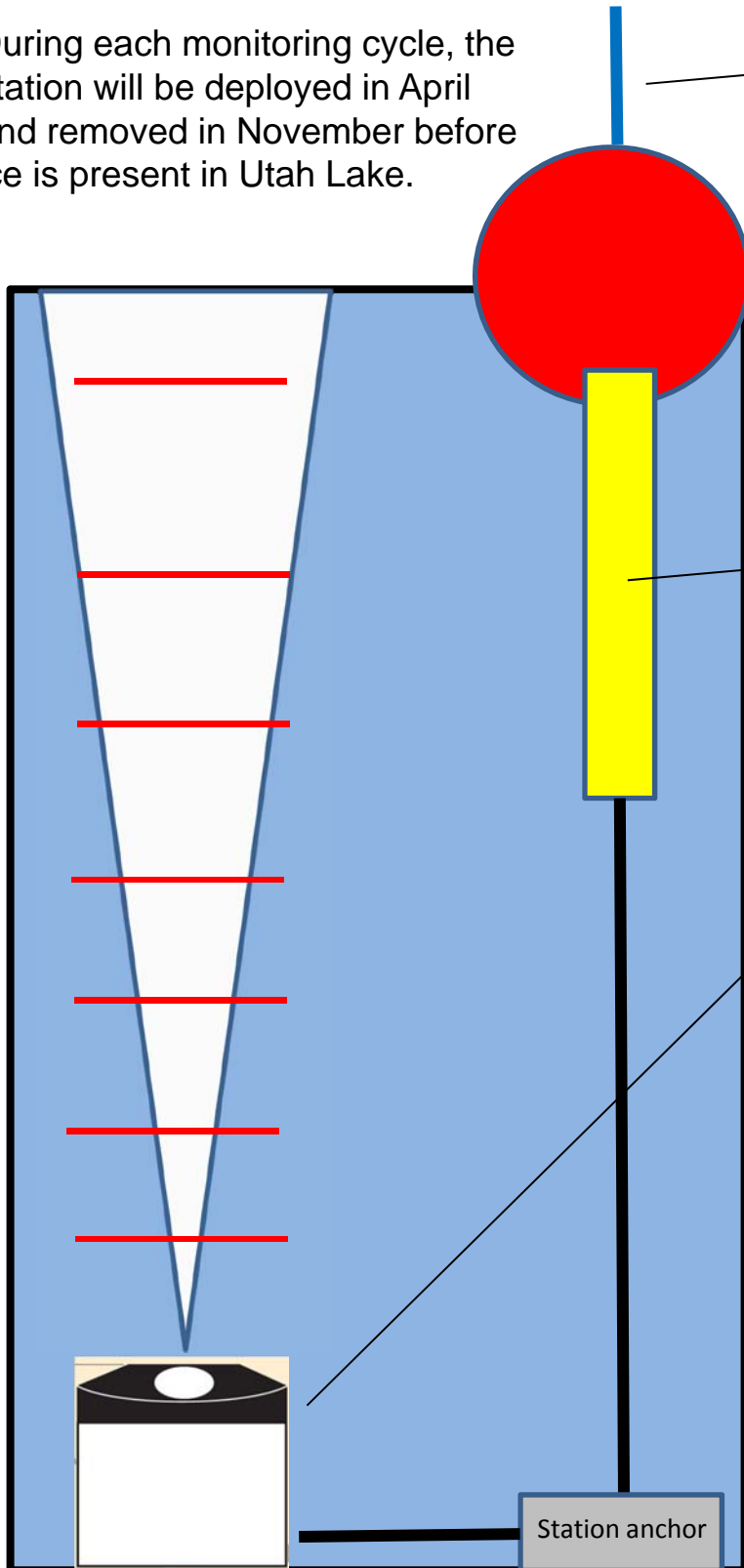


Monitoring the recovery of Utah Lake

- Cost estimate for in-lake, real-time, monitoring station

During each monitoring cycle, the station will be deployed in April and removed in November before ice is present in Utah Lake.



Real-time data transmission and display to USGS NWIS web (pH, specific conductance, water temperature, dissolved oxygen in mg/L, dissolved oxygen as percent saturation, chlorophyll-a, and turbidity)

Marker/floatation buoy with internal data logger, battery, and solar panel.

Fixed position water-quality sonde measuring pH, specific conductance, water temperature, dissolved oxygen in mg/L, dissolved oxygen as percent saturation, chlorophyll-a, and turbidity at 15-minute intervals. Sonde serviced every 2 weeks for recalibration, drift correction, etc... Chlorophyll-a samples will be collected during each site visit and analyzed at a USGS laboratory to provide calibration checks for the continuous chlorophyll-a sensor data.

Hydroacoustic monitoring: (1) vertical and horizontal currents @ 10 depths every 30 minutes; (2) bottom-water temperature; (3) water-column depth; and (4) signal-to-noise ratio @ 10 depths every 30 minutes (used as a qualitative proxy for suspended sediment concentration). Sontek data will be downloaded from internal memory every 4-6 weeks. Water temperature and water-column depth data will be archived in the NWIS data base. Hydroacoustic data will be provided to the June Sucker Recovery Program.

Cost Estimate

	Year 1	Year 2
DWR (60%)	\$54K	\$45K
USGS (40%)	\$36K	\$30K
Total	\$90K	\$75K