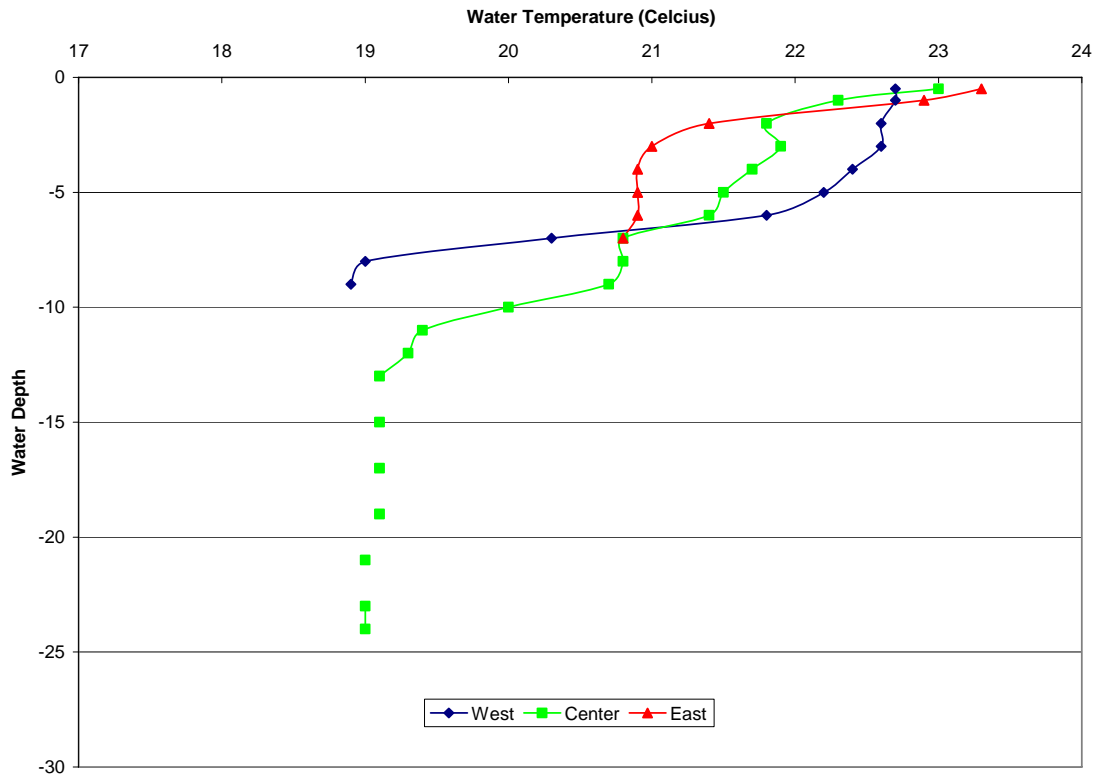


As of June 6th, surface water temperatures are increasing slightly from west to east along the Bay Bridge transect (Figure 1). Waters are more thermally mixed on the Western Shore station than the center and eastern Bay stations, however, so there may be pockets of upwelling colder water (only a degree or so) that may be experienced near the channel.
 * All water depths are in meters.

Figure 1.



Surface salinity increases by about 1.5ppt from the western side to the center/east (Figure 2). There is a higher gradient of salinity from surface to 5 meters on the eastern side of the Bay. This is normally the case as the Earth’s Coriolis Effect pushes the ‘heavier’/denser salt water to the east.

Baywide, bottom dissolved oxygen levels are average or slightly above average, while water clarities are below normal as they have been for most of 2012. Unfortunately, data from our Sandy Pt. State Park continuous monitor was corrupted during its most recent deployment due to malfunctioning wipers that keep the sensors clear of fouling/aquatic growth. If you’re seeking a comprehensive website of monitored and modeled data of water quality, winds, currents and waves, visit the Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS) asset map (<http://assets.maracoos.org>). Also, check in with our daily satellite image (<http://bit.ly/bayfromspace>) to see if we have a clear day where you view the most recent sediment plume from the Susquehanna and local tributaries after recent heavy rains. Visual inspection from the Bay Bridge on the

morning of June 8th shows a sediment plume coming from the Magothy River, but it is currently north of the Sandy Point beach.

Figure 2.

