

Estrogenic Compounds in New Haven Harbor  
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**Abstract**

Estrogen-like compounds have shown to cause negative effects to the environment and to human health. For this reason, it is important to be aware of the amount of these chemicals in the environment. Because estrogenic compounds are present in plastics, Mlastics,ticticpn

C for at least 4 hours.

*Sample Collection:* Surface water and pore water samples were taken from 4 points along New Haven Harbor: Long Wharf, Sandy Point, Savin Rock, and Lighthouse Point Park (Figure 1). Surface water samples were obtained by using 1 liter glass bottles. Pore water samples were obtained using a metal tube wrapped in cloth. The tube was placed in a hole and water was allowed to flow into it. A glass beaker was then used to collect the water in the tube and transfer it to a 1 liter bottle.



**Figure 4:** Bioluminescence versus concentration of the control deionized water sample. The pink circles represent *S. cerevisiae* BLYES and the green circles represent *S. cerevisiae* BLYR.

**Figure 5:** Pore water sample taken from Savin Rock on 7/3/14. The pink circles represent *S. cerevisiae* BLYES and the green circles represent *S. cerevisiae* BLYR. This sample contained 26.3 ng/L estrogenic equivalents.

**Figure 6:** Pore water sample taken from the same location as Figure 5. The pink circles represent *S. cerevisiae* BLYES and the green circles represent *S. cerevisiae* BLYR. This sample contained 26.3 ng/L estrogenic equivalents.

