

**Table 7-11
Wilcoxon Rank Sum Test Results
Bayou d'Inde AOC**

		Probability (p-value) ¹					
Area of Concern	Energy Area	Aroclor 1254	Arsenic	Barium	bis(2-ethylhexyl)phthalate	Chromium	Copper
Bayou d'Inde	Bayou	2.99x10⁻⁴ (0.043)	0.011	0.003	2.11x10 ⁻⁵ (0.003)	0.007	1.03x10 ⁻⁹ (1.48x10 ⁻⁷)
Bayou d'Inde	Marsh	1.5x10 ⁻⁵ (0.002)	0.012	0.003	1.21x10 ⁻⁵ (0.002)	0.007	6.11x10 ⁻¹⁰ (8.80x10 ⁻⁸)
		Probability (p-value) ¹					
Area of Concern	Energy Area	Lead	Mercury	Nickel	Pyrene	Zinc	2,3,7,8-TCDD TEQ
Bayou d'Inde	Bayou	3.22x10 ⁻⁷ (4.64x10 ⁻⁵)	2.25x10 ⁻⁶ (3.24x10 ⁻⁴)	0.294	0.004	1.22x10 ⁻⁸ (1.76x10 ⁻⁶)	1.96x10 ⁻⁴ (0.028)
Bayou d'Inde	Marsh	1.06x10 ⁻⁸ (1.53x10 ⁻⁶)	1.88x10 ⁻⁹ (2.71x10 ⁻⁷)	0.295	0.005	6.47x10 ⁻⁵ (0.009)	1.10x10 ⁻⁴ (0.016)

¹ If p-value < critical value (alpha = 0.05) then there is a statistically significant difference between the AOC and reference areas. Bold = Significant Difference. Values in parentheses are Bonferroni adjusted p-values < critical value.

² Insufficient data for analysis.

Shading indicates that reference area conditions are greater than the energy system.