

**Table 9-5 Wilcoxon Rank Sum Test Results
Upper Calcasieu AOC**

Area of Concern	Energy Area	Probability (p-value) ¹					
		Aroclor 1254	Arsenic	Barium	bis(2-ethylhexyl)phthalate	Chromium	Copper
Upper Calcasieu	Bayou	-- ²	0.077	0.289	-- ²	0.289	0.328
Upper Calcasieu	Marsh	-- ²	0.024	0.014	-- ²	0.414	0.148
Upper Calcasieu	Ship Channel	0.135	0.006	0.038	0.653	0.449	0.044
Upper Calcasieu	Shallow Lake	0.053	0.021	0.018	0.023	0.397	0.014
Upper Calcasieu	River	-- ²	0.014	0.028	-- ²	0.735	0.271

Area of Concern	Energy Area	Probability (p-value) ¹					
		Lead	Mercury	Nickel	Pyrene	Zinc	2,3,7,8-TCDD TEQ
Upper Calcasieu	Bayou	0.41	0.484	0.009	0.017	0.797	0.127
Upper Calcasieu	Marsh	0.201	-- ²	0.001	-- ²	-- ²	0.008
Upper Calcasieu	Ship Channel	0.017	0.941	4.58x10⁻⁶ (0.001)	0.098	2.16x10⁻⁵ (0.003)	0.143
Upper Calcasieu	Shallow Lake	0.033	0.716	0.06	0.041	0.229	0.025
Upper Calcasieu	River	0.204	0.859	4.79x10⁻⁵ (0.007)	0.01	0.005	0.558

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.