

Table 3c. Freshwater and Saltwater Final Acute Value (FAV) and Criteria Calculations

Calculated Freshwater FAV based on 4 lowest values: Total Number of GMAVs in Data Set = 27						
Rank	GMAV	lnGMAV	(lnGMAV) ²	P = R/(n+1)	SQRT(P)	
4	8.5666	2.148	4.613	0.14286	0.3780	
3	5.7536	1.750	3.062	0.10714	0.3273	
2	5.7472	1.749	3.058	0.07143	0.2673	
1	3.5579	1.269	1.611	0.03571	0.1890	
Sum:		6.916	12.34	0.3571	1.1615	
S =	4.419					
L =	0.4456					
A =	1.434					
Calculated FAV =	4.194590					
Calculated CMC =	2.097					

Dissolved Copper Criterion Maximum Concentration (CMC) = 2.1 µg/L (for example normalization chemistry see Table 1a, footnote f)
 Criteria Lethal Accumulation (LA50) based on example normalization chemistry = 0.0412 nmol/g wet wt
 Criterion Continuous Concentration (CCC) = 4.19459/3.23 = 1.3 µg/L (for example normalization chemistry see Table 1a, footnote f)

Calculated Saltwater FAV based on 4 lowest values: Total Number of GMAVs in Data Set = 44						
Rank	GMAV	lnGMAV	(lnGMAV) ²	P = R/(n+1)	SQRT(P)	
4	12.81	2.550	6.503	0.08889	0.2981	
3	12.66	2.538	6.444	0.06667	0.2582	
2	12.60	2.534	6.421	0.04444	0.2108	
1	11.53	2.445	5.979	0.02222	0.1491	
Sum:		10.068	25.35	0.2222	0.9162	
S =	0.752					
L =	2.3447					
A =	2.513					
Calculated FAV =	12.340	Lowered FAV =	6.188			
Calculated CMC =	6.170	Calculated CMC =	3.094			

Dissolved Copper Final Acute Value (FAV) = 6.188 µg/L (lowered from 12.30 to protect *Mytilus sp.*)
 Dissolved Copper Criterion Maximum Concentration (CMC) = 6.188/2 = 3.1 µg/L
 Criterion Continuous Concentration (CCC) = 6.188/3.23 = 1.9 µg/L

S = Scale parameter or slope
 L = Location parameter or intercept
 P = Cumulative probability
 A = lnFAV