

SCECAP 1999 -- Tidal Creeks
Sediment characteristics, contaminants, and toxicity

| Station | Characteristics | | | Contaminants | | | | | Toxicity | | | |
|-------------|-----------------|------------|------------|--------------|---------|-------|-------|-------|------------------|-------|-----------------|-------|
| | Percent | TOC | TAN | ERMQ | Metals* | PAHs* | Pest* | PCBs* | Microtox® Assay | | Seed Clam Assay | |
| | Silt/Clay | % of Total | (mg/l) | | | | | | EC ₅₀ | Toxic | Mean | Toxic |
| RT99001 | 89.5 | 3.7 | 11.8 | 0.036 | 1 | | | | 0.0 | † | ** | |
| RT99002 | 4.6 | 0.1 | 0.9 | 0.006 | | | | | 2.1 | | 43.9 | |
| RT99003 | 36.0 | 1.2 | 2.8 | 0.017 | | | | | 0.1 | † | ** | |
| RT99004 | 10.5 | 0.3 | 0.2 | 0.007 | | | | | 0.5 | | 39.8 | |
| RT99005 | 40.9 | 1.0 | 0.5 | 0.023 | | | | | 0.2 | † | 48.9 | |
| RT99006 | 8.3 | 0.2 | 3.1 | 0.007 | | | | | 4.5 | | 38.5 | |
| RT99007 | 26.9 | 0.7 | 3.5 | 0.017 | | | | | 0.1 | † | 38.7 | |
| RT99008 | 30.7 | 1.0 | 5.5 | 0.014 | | | | | 0.1 | † | ** | |
| RT99009 | 95.0 | 3.8 | 5.0 | 0.029 | 1 | | | | 0.0 | † | 8.2 | † |
| RT99010 | 31.2 | 1.2 | 11.3 | 0.019 | | | | | 0.4 | | 21.1 | |
| RT99012 | 15.5 | 0.5 | 2.0 | 0.008 | | | | | 0.3 | † | 33.2 | |
| RT99013 | 94.8 | 2.5 | 1.3 | 0.033 | 1 | | | | 0.2 | | ** | |
| RT99017 | 13.4 | 1.0 | 1.1 | 0.015 | | | | | 0.9 | | ** | |
| RT99019 | 2.9 | 0.1 | 1.5 | 0.004 | | | | | 3.7 | | 44.1 | |
| RT99021 | 59.4 | 2.0 | 2.6 | 0.024 | 1 | | | | 0.1 | † | ** | |
| RT99022 | 34.6 | 1.3 | 2.9 | 0.014 | | | | | 0.7 | | 45.1 | |
| RT99024 | 4.3 | 0.1 | 1.8 | 0.006 | | | | | 15.6 | | 24.3 | |
| RT99026 | 12.2 | 0.4 | 3.4 | 0.008 | | | | | 0.2 | † | ** | |
| RT99027 | 15.3 | 0.3 | 0.6 | 0.007 | | | | | 3.3 | | ** | |
| RT99028 | 33.7 | 1.1 | 2.1 | 0.013 | | | | | 0.1 | † | 37.2 | |
| RT99029 | 9.9 | 0.3 | 1.0 | 0.006 | | | | | 1.3 | | 48.0 | |
| RT99030 | 26.1 | 0.6 | 2.0 | 0.014 | | | | | 0.1 | † | 33.9 | |
| RT99036 | 95.8 | 4.0 | 2.5 | 0.037 | 1 | | | | 0.0 | † | ** | |
| RT99037 | 5.5 | 0.4 | 1.9 | 0.005 | | | | | 2.1 | | 49.3 | |
| RT99038 | 41.7 | 1.3 | 0.8 | 0.016 | | | | | 0.3 | | 40.5 | |
| RT99039 | 9.3 | 0.2 | 1.2 | 0.006 | | | | | 2.4 | | 39.0 | |
| RT99040 | 14.7 | 0.3 | 2.1 | 0.008 | | | | | 0.2 | † | 35.0 | |
| Mean | 32.0 | 1.1 | 2.8 | 0.015 | | | | | 1.5 | | 37.1 | |

† = Toxic: Microtox EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay < 80% of mean sediment control growth and less than 95% Lower Confidence Limit (LCL)

Asterisk represents number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

** = No data due to low clam growth in controls

█ = Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).