

**RMP Trace Organics Analyte List: Results and Recommendations
March 2005**

Chemical	Major Health Concern/s	Level of Concern	Effects Threshold	Cost per Sample	Occurrences	Recommendation for 2004/2005	Recommendations for the Future
PBDEs (water, sediment, tissue)	Endocrine system disruption (targets thyroid), bioaccumulation, carcinogenic, persistent in the environment	High	None	\$400/wat \$685/sed ¹ \$750/tis	Detected in 2002 water, sediment, and bivalves. 2003 water and tissue data not yet received. 2003 sediment pending QA	Continue monitoring in water, sediment, and tissues (bivalves). Monitored in fish in 2003 and cormorant eggs in 2004.	Continue monitoring in water, sediment, and tissues (bivalves).
p-Nonylphenol (water, sediment, tissue)	Endocrine system disruption	Low	In water 1000 times below the NTR Aq.Life saltwater value of 12.4 ug/L.	\$400/wat \$685/sed ² \$1260/tis ²	Detected in 2002 water, one detect in bivalves, not detected in sediments. 2003 tissue data not yet received. 2003 sediment and water pending QA.	Monitored in cormorant eggs in 2004.	Monitor periodically only in water. Consider monitoring in fish in 2006.
Nitro and Polycyclic Musks (tissue only)	Bioaccumulation, toxicity in aquatic biota (efflux pump inhibitors), estrogenic in fish	Low for Nitro Musks Medium for Polycyclic Musks	None	\$560/tis	2002 tissues nitro musks not detected, polycyclic musk detected. 2003 tissue data not yet received.	Discontinue nitro musks and polycyclic musks. Monitored in cormorant eggs in 2004.	Review data to determine whether future monitoring of polycyclic musks. Compare with results of Dr. Epel of Stanford.

¹ Includes cost of analysis for phthalates and nonphenols.

² Includes cost of analysis for PBDEs, and phthalates

Chemical	Major Health Concern/s	Level of Concern	Effects Threshold	Cost per Sample	Occurrences	Recommendations for 2004	Recommendations for the Future
Triphenyl-phosphate (tissue only)	Bioaccumulation, human toxicity, unknown toxicity to aquatic biota	Low	None	?/tissue	Detected in 2002 bivalves 2003 tissue data not yet received.	Discontinue monitoring. Monitor in fish and bird eggs (where initially found by Dr. Jay Davis in bird eggs). Monitored in cormorant eggs in 2004.	Discontinue monitoring.
Phthalates (water, sediment, tissue)	Endocrine system disruption, bioaccumulation, toxicity	Low	No ambient water criteria	?/water \$685/sediment ³ \$1260/tis ³	Detected in 2002 water and sediments. 2002 tissue data not available. 2003 tissue data not yet received. 2003 water and sediment pending QA	Discontinue monitoring since blank contamination is problematic in all matrices. Monitored in cormorant eggs in 2004.	Discontinue monitoring.

³ This cost is for PBDEs, pthalates, and nonylphenols

Chemical	Major Health Concern/s	Level of Concern	Effects Threshold	Cost per Sample	Occurrences	Recommendations for 2004	Recommendations for the Future
Perfluorinated Compounds (PFOS)	Bioaccumulation	Potential for High Rating	None		Not currently monitored.		Propose for special study Analyze bird eggs in 2004.
Pharmaceuticals	Toxicity, Unknown effects	Potential for High Rating	None		Not currently monitored.		Propose for special study. Monitor in water only due to their high solubility.