

Table 2
RISK-BASED CONCENTRATIONS
PROTECTIVE OF ECOLOGICAL RECEPTORS
ROSS ISLAND SAND & GRAVEL CO.

Chemical of Potential Ecological Concern	Soil (mg/kg)	Surface Water (µg/L)	Sediment (mg/kg)
Total Metals			
Antimony	NC	ND	NCOPEC
Arsenic	6.42E+02	1.50E+02	NCOPEC
Chromium	NCOPEC	ND	NCOPEC
Copper	4.22E+03	1.79E+01	8.07E+01
Lead	4.48E+02	2.93E+01	8.67E+02
Mercury	NCOPEC	ND	3.22E+00
Nickel	NCOPEC	NCOPEC	1.63E+02
Silver	NC	ND	NC
Zinc	5.00E+01	NCOPEC	3.31E+02
Polychlorinated Biphenyls			
Aroclor 1254	NCOPEC	ND	7.00E-03
Aroclor 1260	NCOPEC	ND	7.00E-03
Pesticides			
DDD	NCOPEC	ND	5.38E-04
DDE	NCOPEC	ND	2.12E-02
DDT	NCOPEC	ND	2.58E-02
Endosulfan I	ND	ND	NC
Endosulfan Sulfate	ND	ND	NC
Endrin Aldehyde	ND	ND	2.94E-04
Semivolatile Organic Compounds			
2-Methylnaphthalene	1.48E+01	ND	NC
4-Methylphenol	5.00E+01	ND	NCOPEC
Acenaphthene	2.00E+01	ND	3.61E+01
Acenaphthylene	1.60E+01	ND	NCOPEC
Anthracene	7.90E+02	ND	NCOPEC
Benzo(a)anthracene	2.50E+00	ND	3.20E-02
Benzo(a)pyrene	1.82E+00	ND	3.20E-02
Benzo(b)fluoranthene	3.80E+01	ND	3.61E+01
Benzo(g,h,i)perylene	3.30E+01	ND	3.61E+01
Benzo(k)fluoranthene	3.80E+01	ND	2.70E-02
Benzyl Alcohol	NCOPEC	ND	NC
Bis(2-ethylhexyl)phthalate	NCOPEC	ND	4.87E-01
Chrysene	2.91E+00	ND	5.70E-02
Dibenz(a,h)anthracene	7.90E+02	ND	3.61E+01
Dibenzofuran	NC	ND	NC
Fluoranthene	1.14E+02	ND	1.11E-01
Fluorene	3.00E+01	ND	3.61E+01
Indeno(1,2,3-cd)pyrene	1.90E+00	ND	1.70E-02
Naphthalene	1.00E+01	ND	3.61E+01
Phenanthrene	6.36E+00	ND	2.49E-01
Phenol	NCOPEC	ND	4.80E-02
Pyrene	6.82E+01	ND	5.30E-02
Organotins			
Di-n-butyltin Ion	NC	ND	NCOPEC
n-Butyltin Ion	NC	ND	NCOPEC
Tetra-n-butyltin ion	NC	ND	NCOPEC
Tri-n-butyltin Ion	2.13E+01	ND	1.08E-01

NC = Not Calculated due to a lack of toxicity data.

NCOPEC = Not a chemical of potential ecological concern in this medium.

ND = Not detected in the exposure medium.