

Newtown Creek OU1 Risk-Based Preliminary Remediation Goals (PRGs)

Contaminant of Concern	Risk-Based PRGs	Receptors for which unacceptable risk is present	Pathway Driving Risk	Species Driving risk	Cancer Risk	Noncancer HQ	Other Information
TPCB congener	0.30 mg/kg	Human health - Cancer risks; noncancer hazards Ecological - Avian (green heron, belted kingfisher, black-crowned night heron, spotted sandpiper) dietary intake	Human consumption of fish and crabs by recreational anglers/crabbers	Human consumption of blue crab	4×10^{-4} (PCB congener TEQ [Mammal]) (cumulative for adult and child)	20 (PCB congener TEQ [Mammal]) (cumulative for adult, adolescents, and child; reproduction target organ)	Crab consumption rates - adults: 20.9 grams/day; adolescents: 14 grams/day; child: 7 grams/day
D/F TEQ (mammal)	18 ng/kg	Human health - Cancer risks; noncancer hazards	Human consumption of fish and crabs by recreational anglers/crabbers	Human consumption of blue crab	2×10^{-4} (cumulative for adult and child)	16 (cumulative for adult, adolescents, and child; reproduction target organ)	
Copper	490 mg/kg	Ecological - mummichog, spotted sandpiper	Dietary intake by fish	Mummichog	NA	NA	Modeled value based on dietary intake
Lead	340 mg/kg	Ecological - spotted sandpiper	Dietary intake by birds	Spotted sandpiper	NA	NA	Modeled value based on dietary intake
TPAH (34)	100 mg/kg	Ecological - benthic fish, benthic macroinvertebrates (polychaetes and bivalves)	Sediment toxicity and porewater exposure of invertebrates	Benthic macroinvertebrates	NA	NA	Site-derived value using sediment toxicity data
C19-C36 aliphatic hydrocarbons	200 mg/kg	Ecological - benthic fish, benthic macroinvertebrates (polychaetes and bivalves)	Sediment toxicity and porewater exposure of invertebrates	Benthic macroinvertebrates	NA	NA	Site-derived value using sediment toxicity data

mg/kg = milligrams per kilogram dry weight

ng/kg = nanograms per kilogram dry weight

PCB congener TEQ 2005 (Mammal): dioxin-like PCB congeners

TPAH 34 = EPA's list of 34 total polycyclic aromatic hydrocarbons

C19-C36 = PAH class of compounds with 19 to 36 carbons

TPCB = total polychlorinated biphenyls

HQ: Hazard Quotient

D/F = dioxins/furans

TEQ = toxicity equivalency