Reporting Limits for PCBs, Dioxins/Furans, Pesticides, Metals, and Organics for the National Lake Fish Tissue Study *

Analytes	Method Detection Limit (MDL)	Minimum Level (ML) **
Dioxins/Furans by M1613B	**ng/kg (ppt)**	**ng/kg (ppt)**
2,3,7,8-TCDD	0.01	0.1
1,2,3,7,8-PeCDD	0.06	0.5
1,2,3,4,7,8-HxCDD	0.06	0.5
1,2,3,6,7,8-HxCDD	0.04	0.5
1,2,3,7,8,9-HxCDD	0.04	0.5
1,2,3,4,6,7,8-HpCDD	0.03	0.5
OCDD	0.09	1
2,3,7,8-TCDF	0.03	0.1
1,2,3,7,8-PeCDF	0.04	0.5
2,3,4,7,8-PeCDF	0.06	0.5
1,2,3,4,7,8-HxCDF	0.04	0.5
1,2,3,6,7,8-HxCDF	0.04	0.5
1,2,3,7,8,9-HxCDF	0.04	0.5
2,3,4,6,7,8-HxCDF	0.06	0.5
1,2,3,4,6,7,8-HpCDF	0.05	0.5
1,2,3,4,7,8,9-HpCDF	0.05	0.5
OCDF	0.2	1
PCB Congeners by M1668A	**ng/kg (ppt)**	**ng/kg (ppt)**
CL1-PCB-1	0.8	2.0
CL1-PCB-2	0.8	2.0
CL1-PCB-3	0.6	2.0
CL2-PCB-4	0.5	2.0
CL2-PCB-5	0.7	2.0
CL2-PCB-6	0.3	1.0
CL2-PCB-7	0.4	1.0
CL2-PCB-8	1.3	5.0
CL2-PCB-9	0.5	2.0
CL2-PCB-10	0.7	2.0
CL2-PCB-11	1.0	2.0
CL2-PCB-12/13	1.0	2.0
CL2-PCB-14	0.5	2.0
CL2-PCB-15	0.4	1.0
CL3-PCB-16	1.0	2.0
CL3-PCB-17	1.0	2.0
CL3-PCB-19	0.1	0.5
CL3-PCB-21/33	1.0	2.0
CL3-PCB-22	0.2	0.5
CL3-PCB-23	0.6	2.0
CL3-PCB-24	0.8	2.0
CL3-PCB-25	0.6	2.0
CL3-PCB-26/29	3.5	10.0
CL3-PCB-27	0.7	2.0
CL3-PCB-28/20	4.2	10.0
CL3-PCB-30/18	1.8	5.0
CL3-PCB-31	0.5	2.0
CL3-PCB-32	0.6	2.0
CL3-PCB-34	0.5	2.0
CL3-PCB-35	0.4	1.0
CL3-PCB-36	0.5	2.0
CL3-PCB-37	0.2	0.5
CL3-PCB-38	0.4	1.0
CL3-PCB-39	0.5	2.0
CL4-PCB-41/40/71	1.6	5.0
CL4-PCB-42	0.7	2.0
CL4-PCB-43	1.4	5.0
CL4-PCB-44/47/65	4.3	10.0
CL4-PCB-45/51	2.2	5.0
CL4-PCB-46	1.2	5.0
CL4-PCB-48	0.8	2.0
CL4-PCB-50/53	3.2	10.0

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Analytes	Method Detection Limit (MDL)	Minimum Level (ML) **
CL4-PCB-52	4.3	10.0
CL4-PCB-54	0.3	1.0
CL4-PCB-55	0.5	2.0
CL4-PCB-56	0.5	2.0
CL4-PCB-57	0.6	2.0
CL4-PCB-58	0.5	2.0
CL4-PCB-59/62/75	2.0	5.0
CL4-PCB-60	0.4	1.0
CL4-PCB-61/70/74/76	2.3	10.0
CL4-PCB-63	0.7	2.0
CL4-PCB-64	0.6	2.0
CL4-PCB-66	5.2	20.0
CL4-PCB-67	0.6	2.0
CL4-PCB-68	0.4	1.0
CL4-PCB-69/49	1.4	5.0
CL4-PCB-72	0.5	2.0
CL4-PCB-73	0.7	2.0
CL4-PCB-77	4.9	20.0
CL4-PCB-78	0.7	2.0
CL4-PCB-79	0.8	2.0
CL4-PCB-80	0.8	2.0
CL4-PCB-81	0.5	2.0
CL5-PCB-82	0.6	2.0
CL5-PCB-83/99	1.0	2.0
CL5-PCB-84	0.9	2.0
CL5-PCB-88/91	0.8	2.0
CL5-PCB-89	0.6	2.0
CL5-PCB-92	0.1	0.5
CL5-PCB-94	0.6	2.0
CL5-PCB-95/100/93/102/98	2.1	5.0
CL5-PCB-96	1.0	2.0
CL5-PCB-103	0.4	1.0
CL5-PCB-104	3.6	10.0
CL5-PCB-105	5.3	20.0
CL5-PCB-106	0.4	1.0
CL5-PCB-107/124	1.0	2.0
CL5-PCB-108/119/86/97/125/87	4.5	20.0
CL5-PCB-109	0.5	2.0
CL5-PCB-110/115	0.5	2.0
CL5-PCB-111	0.4	1.0
CL5-PCB-112	0.6	2.0
CL5-PCB-113/90/101	3.7	10.0
CL5-PCB-114	0.4	1.0
CL5-PCB-117/116/85	1.0	2.0
CL5-PCB-118	4.9	20.0
CL5-PCB-120	0.5	2.0
CL5-PCB-121	0.6	2.0
CL5-PCB-122	0.3	1.0
CL5-PCB-123	1.1	2.0
CL5-PCB-126	5.1	20.0
CL5-PCB-127	0.5	2.0
CL6-PCB-128/166	3.7	10.0
CL6-PCB-130	0.4	1.0
CL6-PCB-131	0.6	2.0
CL6-PCB-132	0.8	2.0
CL6-PCB-133	0.5	2.0
CL6-PCB-134/143	0.8	2.0
CL6-PCB-136	0.6	2.0
CL6-PCB-137	0.4	1.0
CL6-PCB-138/163/129/160	5.4	20.0
CL6-PCB-139/140	0.8	2.0
CL6-PCB-141	0.7	2.0

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Analytes	Method Detection Limit (MDL)	Minimum Level (ML) **
CL6-PCB-142	0.5	2.0
CL6-PCB-144	0.7	2.0
CL6-PCB-145	0.5	2.0
CL6-PCB-146	0.4	1.0
CL6-PCB-147/149	0.6	2.0
CL6-PCB-148	0.6	2.0
CL6-PCB-150	0.4	1.0
CL6-PCB-151/135/154	4.0	10.0
CL6-PCB-152	0.4	1.0
CL6-PCB-153/168	4.1	10.0
CL6-PCB-155	0.3	1.0
CL6-PCB-156/157	0.5	2.0
CL6-PCB-158	0.4	1.0
CL6-PCB-159	0.4	1.0
CL6-PCB-161	0.5	2.0
CL6-PCB-162	0.4	1.0
CL6-PCB-164	0.3	1.0
CL6-PCB-165	0.4	1.0
CL6-PCB-167	0.2	1.0
CL6-PCB-169	0.3	1.0
CL7-PCB-170	5.0	20.0
CL7-PCB-171/173	0.8	2.0
CL7-PCB-172	0.5	2.0
CL7-PCB-174	0.6	2.0
CL7-PCB-175	0.6	2.0
CL7-PCB-176	0.5	2.0
CL7-PCB-177	0.3	1.0
CL7-PCB-178	0.8	2.0
CL7-PCB-179	0.4	1.0
CL7-PCB-180/193	4.5	10.0
CL7-PCB-181	0.5	2.0
CL7-PCB-182	0.8	2.0
CL7-PCB-183/185	1.1	5.0
CL7-PCB-184	0.6	2.0
CL7-PCB-186	0.7	2.0
CL7-PCB-187	4.3	10.0
CL7-PCB-188	4.6	10.0
CL7-PCB-189	0.4	1.0
CL7-PCB-190	0.3	1.0
CL7-PCB-191	0.5	2.0
CL7-PCB-192	0.3	1.0
CL8-PCB-194	1.1	5.0
CL8-PCB-195	4.9	20.0
CL8-PCB-196	0.8	2.0
CL8-PCB-197/200	0.8	2.0
CL8-PCB-198/199	0.8	2.0
CL8-PCB-201	4.9	20.0
CL8-PCB-202	0.5	2.0
CL8-PCB-203	0.8	2.0
CL8-PCB-204	0.9	2.0
CL8-PCB-205	0.5	2.0
CL9-PCB-206	4.5	10.0
CL9-PCB-207	0.5	2.0
CL9-PCB-208	0.5	2.0
CL10-PCB-209	5.0	20.0

Reporting Limits for PCBs, Dioxins/Furans, Pesticides, Metals, and Organics for the National Lake Fish Tissue Study *

Analytes	Method Detection Limit (MDL)	Minimum Level (ML) **
Mercury by M1631B	**ng/g (ppb)**	**ng/g (ppb)**
Mercury (Hg)	0.521	2
Arsenic by M1632A	**ug/g (ppm)**	**ug/g (ppm)**
Arsenate (As^{+5})	0.03	0.1
Arsenite (As^{+3})	0.02	0.1
Dimethylarsinic Acid	0.04	0.1
Monomethylarsonic Acid	0.01	0.05
Total Inorganic Arsenic	0.03	0.1
OC-Pesticides/PCB by M1656A	**ug/kg (ppb)**	**ug/kg (ppb)**
2,4'-DDD	0.38	2
2,4'-DDE	0.82	2
2,4'-DDT	0.38	2
4,4'-DDD	0.52	2
4,4'-DDE	0.74	2
4,4'-DDT	0.66	2
Aldrin	2.178	4
Chlordane, alpha-	1.814	4
Chlordane, gamma-	0.488	2
Dicofol	16.24	40
Dieldrin	0.44	1
Endosulfan I	1.22	4
Endosulfan II	10.3	40
Endosulfan Sulfate	4.16	10
Endrin	2.86	10
Ethalfluralin	1.67	4
Heptachlor	1.79	2
Heptachlor Epoxide	0.52	2
Hexachlorocyclohexane (BHC), alpha-	4.7	10
Hexachlorocyclohexane (BHC), beta-	1.13	4
Hexachlorocyclohexane (BHC), delta-	1.5	4
Hexachlorocyclohexane (BHC), gamma-	0.606	2
Isodrin	1.58	4
Kepone	12.23	40
Methoxychlor	7.106	20
Mirex	1.52	4
Nonachlor, cis-	1.95	4
Nonachlor, trans-	1.48	4
Octachlorostyrene	0.83	2
Oxychlordane	1.94	4
PCB-1016	0.68	20
PCB-1221	0.76	20
PCB-1232	0.76	20
PCB-1242	0.76	20
PCB-1248	0.76	20
PCB-1254	0.76	20
PCB-1260	0.76	20
Pendimethalin	6.21	20
Pentachloroanisole	1.312	4
Pentachloronitrobenzene	0.76	2
Permethrin I	25	100
Permethrin II	21	40
Toxaphene	20	100
Trifluralin	2.98	10

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Analytes	Method Detection Limit (MDL)	Minimum Level (ML) **
OP-Pesticides by M1657A	**ug/kg (ppb)**	**ug/kg (ppb)**
Chloropyriphos	59	200
Diazinon	40	100
Disulfoton	161	500
Disulfoton Sulfone	275	1000
Ethion	254	1000
Paraoxon	121	500
Parathion (ethyl)	125	500
Terbufos	286	1000
Terbufos Sulfone	73	200
SVOA Organics by M1625C	**ug/kg (ppb)**	**ug/kg (ppb)**
1,2,3-Trichlorobenzene	111	333
1,2,4,5-Tetrachlorobenzene	111	333
1,2,4-Trichlorobenzene	111	333
1,2-Dichlorobenzene	111	333
1,2-Diphenylhydrazine	222	666
1,3-Dichlorobenzene	111	333
1,4-Dichlorobenzene	111	333
2,3,6-Trichlorophenol	111	333
2,4,5-Trichlorophenol	111	333
2,4,6-Trichlorophenol	111	333
2,4,6-Tris(1,1-Dimethylethyl)Phenol	111	333
2,4-Dichlorophenol	111	333
2,4-Dimethylphenol	111	333
2,4-Dinitrophenol	555	1665
2,4-Dinitrotoluene	111	333
2,6-Dinitrotoluene	111	333
2-Chloronaphthalene	111	333
2-Chlorophenol	111	333
2-Nitrophenol	222	666
2-Picoline	555	1665
3,3'-Dichlorobenzidine	555	1665
4,4'-Methylenebis(2-Chloroaniline)	222	666
4-Bromophenyl Phenyl Ether	111	333
4-Chloro-3-Methylphenol	111	333
4-Chlorophenylphenyl Ether	111	333
4-Nitrophenol	555	1665
Acenaphthene	111	333
Acenaphthylene	111	333
Anthracene	111	333
Benzidine	555	1665
Benzo(a)Anthracene	111	333
Benzo(a)Pyrene	111	333
Benzo(b)Fluoranthene	111	333
Benzo(ghi)Perylene	222	666
Benzo(j)Fluoranthene	111	333
Benzo(k)Fluoranthene	111	333
Biphenyl	111	333
Bis(2-chloroethoxy)Methane	111	333
Bis(2-chloroethyl) Ether	111	333
Bis(2-chloroisopropyl) Ether	111	333
Bis(2-ethylhexyl) Phthalate	111	333
Butyl Benzyl Phthalate	111	333

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Analytes	Method Detection Limit (MDL)	Minimum Level (ML) **
Carbazole	222	666
Chrysene	111	333
Di-n-Butyl Phthalate	111	333
Di-n-Octyl Phthalate	111	333
Di-n-Propylnitrosamine	111	333
Dibenzo(a,h)Anthracene	111	333
Dibenzofuran	111	333
Dibenzothiophene	111	333
Diethyl Phthalate	111	333
Diethylstilbestrol	111	333
Dimethyl Phthalate	111	333
Diphenyl Ether	111	333
Diphenylamine	111	333
Fluoranthene	111	333
Fluorene	111	333
Hexachlorobenzene	111	333
Hexachlorobutadiene	111	333
Hexachlorocyclopentadiene	111	333
Hexachloroethane	111	333
Indeno(1,2,3-cd)Pyrene	222	666
Isophorone	111	333
n-Decane	111	333
n-Docosane	111	333
n-Dodecane	111	333
n-Eicosane	111	333
n-Hexacosane	111	333
n-Hexadecane	111	333
n-Nitrosodimethylamine	555	1665
n-Nitrosodiphenylamine	222	666
n-Octacosane	111	333
n-Octadecane	111	333
n-Tetracosane	111	333
n-Tetradecane	111	333
n-Triacontane	111	333
Naphthalene	111	333
Naphthylamine, beta-	555	1665
Nitrobenzene	111	333
Nonylphenol	111	333
p-Cymene	111	333
Pentachlorobenzene	222	666
Pentachlorophenol	555	1665
Perylene	111	333
Phenanthrene	111	333
Phenol	111	333
Phenol, 2-Methyl-4,6-Dinitro-	222	666
Pyrene	111	333
Styrene	111	333
Terpineol, alpha-	111	333
Tetrabromobisphenol A	5550	16650

* Please note that this table lists all of the analytes reported by the analytical laboratories for each particular method. Therefore, the total number of analytes in this table is greater than the total number of analytes in theTarget Analyte List Table. Target analytes are highlighted in blue.

** The Minimum Level (ML) is equivalent to the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method-specified sample weights, volumes, and processing steps have been employed. The ML is roughly three times greater than the Method Detection Limit (MDL), which is the measured concentration at which there is 99% confidence that a given analyte is present in a given sample matrix. The ML is comparable to the American Chemical Society's Limit of Quantitation (LOQ).