Table 5.4
Surface Water Sampling Analytical Parameters and Potential Screening Values

Analyte	CAS Number	CRQL/ CRDL (µg/L)	EPA MCL (µg/L)	EPA Tap Water RSL[1] (µg/L)	Region 3 Freshwater/Marine Benchmark[2] (µg/L)
TCL VOCs by SOM01.1/SOM01.2 (Trace Level)					
Dichlorodifluoromethane	75-71-8	0.5	--	190 (n)	--
Chloromethane	74-87-3	0.5	--	190 (n)	2700 (m)
Vinyl chloride	75-01-4	0.5	2.0	0.15 (c)	930 (f)
Bromomethane	74-83-9	0.5	--	7.0 (n)	120 (m)
Chloroethane	75-00-3	0.5	--	21,000 (n)	--
Trichlorofluoromethane	75-69-4	0.5	--	1,100 (n)	--
1,1,-Dichloroethene	75-35-4	0.5	7.0	260 (n)	25 (f)
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.5	--	53,000 (n)	--
Acetone	67-64-1	5.0	--	12,000 (n)	1,500 (f)
Carbon disulfide	75-15-0	0.5	--	720 (n)	0.92 (f)
Methyl acetate	79-20-9	0.5	--	16,000 (n)	--
Methylene chloride	75-09-2	0.5	5.0	84 (n)	98.1 (f)
trans-1,2-Dichloroethene	156-60-5	0.5	100	86 (n)	970 (f)
Methyl tert-butyl ether	1634-04-4	0.5	--	120 (c)	11,070 (f)
1,1-Dichloroethane	75-34-3	0.5	--	24 (c)	47 (f)
cis-1,2-Dichloroethene	156-59-2	0.5	70	28 (n)	590 (f)
2-Butanone	78-93-3	5.0	--	4,900 (n)	14,000 (f)
Bromochloromethane	74-97-5	0.5	--	83 (n)	--
Chloroform	67-66-3	0.5	80[3]	1.9 (c)	1.8 (f)
1,1,1-Trichloroethane	71-55-6	0.5	200	7,500 (n)	11 (f)
Cyclohexane	110-82-7	0.5	--	13,000 (n)	--
Carbon tetrachloride	56-23-5	0.5	5.0	3.9 (c)	13.3 (f)
Benzene	71-43-2	0.5	5.0	3.9 (c)	110 (m)
1,2-Dichloroethane	107-06-2	0.5	5.0	1.5 (c)	100 (f)
1,4-Dioxane	123-91-1	20	--	6.7 (c)	--
Trichloroethene	79-01-6	0.5	5.0	2.6 (n)	21 (f)
Methylcyclohexane	108-87-2	0.5	--	--	--
1,2-Dichloropropane	78-87-5	0.5	5.0	3.8 (c)	2400 (m)
Bromodichloromethane	75-27-4	0.5	80[3]	1.2 (c)	--
cis-1,3-Dichloropropene	10061-01-5	0.5	--	4.1 (c) (total cis- +trans-)	0.055 (f)
4-Methyl-2-pentanone	108-10-1	5.0	--	2,000	170 (f)
Toluene	108-88-3	0.5	1,000	2,300	2.0 (f)
trans-1,3-Dichloropropene	10061-02-6	0.5	--	4.1 (c) (total cis- +trans-)	0.055 (f)
1,1,2-Trichloroethane	79-00-5	0.5	5.0	0.41 (n)	550 (m)
Tetrachloroethene	127-18-4	0.5	5.0	35 (n)	45 (m)
2-Hexanone	591-78-6	5.0	--	34 (n)	99 (f)
Dibromochloromethane	124-48-1	0.5	80[3]	1.5 (c)	--
1,2-Dibromoethane	106-93-4	0.5	0.05	0.065 (c)	--
Chlorobenzene	108-90-7	0.5	100	72 (n)	1.3 (f)
Ethylbenzene	100-41-4	0.5	700	13 (c)	25 (m)
o-Xylene	95-47-6	0.5	10,000 (total xylenes)	190 (n) (total xylenes)	13 (as total xylenes) (f)

Freedom_0004448_0001

Table 5.4 (continued)
Surface Water Sampling Analytical Parameters and Potential Screening Values

Analyte	CAS Number	CRQL/ CRDL (µg/L)	EPA MCL (µg/L)	EPA Tap Water RSL[1] (µg/L)	Region 3 Freshwater/Marine Benchmark[2] (µg/L)
m,*p*-Xylene	179601-23-1	0.5	10,000 (total xylenes)	190 (n) (total xylenes)	1.8 (as *m*-xylene) (f)
Styrene	100-42-5	0.5	100	1,100 (n)	72 (f)
Bromoform	75-25-2	0.5	80[3]	79 (c)	320 (f)
Isopropylbenzene	98-82-8	0.5	--	390 (n)	2.6 (f)
1,1,2,2-Tetrachloroethane	79-34-5	0.5	--	0.66 (c)	90.2 (m)
1,3-Dichlorobenzene	541-73-1	0.5	--	--	28.5 (m)
1,4-Dichlorobenzene	106-46-7	0.5	75	4.2 (c)	19.9 (m)
1,2-Dichlorobenzene	95-50-1	0.5	600	280 (n)	0.7 (f)
1,2-Dibromo-3-chloropropane	96-12-8	0.5	0.2	0.0032 (c)	--
1,2,4-Trichlorobenzene	120-82-1	0.5	70	3.9 (n)	5.4 (m)
1,2,3-Trichlorobenzene	87-61-6	0.5	--	5.2 (n)	8.0 (f)
TCL SVOCs by SOM01.1/SOM01.2 (Low Level)					
Benzaldehyde	100-52-7	5.0	--	1,500 (n)	--
Phenol	108-95-2	5.0	--	4,500 (n)	4.0 (f)
bis(2-Chloroethyl)ether	111-44-4	5.0	--	0.12 (c)	--
2-Chlorophenol	95-57-8	5.0	--	71 (n)	24 (f)
2-Methylphenol	95-48-7	5.0	--	1,400 (n) (as cresols)	13 (f)
2,2′-oxybis(1-Chloropropane)	108-60-1	5.0	--	3.1 (c)	--
Acetophenone	98-86-2	5.0	--	1,500 (n)	--
4-Methylphenol	106-44-5	5.0	--	1,400 (n) (as cresols)	543 (f)
N-Nitrosodi-n-propylamine	621-64-7	5.0	--	0.093 (c)	120 (m)
Hexachloroethane	67-72-1	5.0	--	5.1 (n)	9.4 (m)
Nitrobenzene	98-95-3	5.0	--	1.2 (c)	66.8 (m)
Isophorone	78-59-1	5.0	--	670 (c)	129 (m)
2-Nitrophenol	88-75-5	5.0	--	--	1,920 (f)
2,4-Dimethylphenol	105-67-9	5.0	--	270 (n)	--
bis(2-Chloroethoxy)methane	111-91-1	5.0	--	46 (n)	--
2,4-Dichlorophenol	120-83-2	5.0	--	35 (n)	11 (f)
Naphthalene	91-20-3	5.0	--	1.4 (c)	1.1 (f)
4-Chloroaniline	106-47-8	5.0	--	3.2 (c)	232 (f)
Hexachlorobutadiene	87-68-3	5.0	--	2.6 (c)	0.3 (m)
Caprolactam	105-60-2	5.0	--	7,700 (n)	--
4-Chloro-3-methylphenol	59-50-7	5.0	--	1,100 (n)	--
2-Methylnaphthalene	91-57-6	5.0	--	27 (n)	4.2 (m)
Hexachlorocyclopentadiene	77-47-4	5.0	50	22 (n)	0.07 (m)
2,4,6-Trichlorophenol	88-06-2	5.0	--	9.0 (n)	4.9 (f)
2,4,5-Trichlorophenol	95-95-4	5.0	--	890 (n)	12 (m)
1,1′-Biphenyl	92-52-4	5.0	--	0.83 (n)	14 (f)
2-Chloronaphthalene	91-58-7	5.0	--	550 (n)	--
2-Nitroaniline	88-74-4	10	--	150 (n)	--
Dimethyl phthalate	131-11-3	5.0	--	--	580 (m)
2,6-Dinitrotoluene	606-20-2	5.0	--	0.92 (c) (as mixture of isomers)	81 (f)
Acenaphthylene	208-96-8	5.0	--	400 (n)[4]	--
3-Nitroaniline	99-09-2	10	--	--	--

Freedom_0004448_0002

Table 5.4 (continued)
Surface Water Sampling Analytical Parameters and Potential Screening Values

Analyte	CAS Number	CRQL/ CRDL (µg/L)	EPA MCL (µg/L)	EPA Tap Water RSL[1] (µg/L)	Region 3 Freshwater/Marine Benchmark[2] (µg/L)
Acenaphthene	83-32-9	5.0	--	400 (n)	5.8 (f)
2,4-Dinitrophenol	51-28-5	10	--	30 (n)	48.5 (m)
4-Nitrophenol	100-02-7	10	--	--	60 (f)
Dibenzofuran	132-64-9	5.0	--	5.8 (n)	3.7 (f)
2,4-Dinitrotoluene	121-14-2	5.0	--	2.0 (c)	44 (f)
Diethyl phthalate	84-66-2	5.0	--	11,000 (n)	75.9 (m)
Fluorene	86-73-7	5.0	--	630 (n)	2.5 (m)
4-Chlorophenyl phenyl ether	7005-72-3	5.0	--	--	--
4-Nitroaniline	100-01-6	10	--	33 (c)	--
4,6-Dinitro-2-methylphenol	534-52-1	10	--	1.2 (n)	--
N-Nitrosodiphenylamine	86-30-6	5.0	--	100 (c)	210 (f)
1,2,4,5-Tetrachlorobenzene	95-94-3	5.0	--	1.2 (n)	3 (f)
4-Bromophenyl phenyl ether	101-55-3	5.0	--	--	1.5 (f)
Hexachlorobenzene	118-74-1	5.0	1.0	0.42 (c)	0.0003 (f)
Atrazine	1912-24-9	5.0	3.0	2.6 (c)	1.8 (f)
Pentachlorophenol	87-86-5	10	1.0	0.35 (c)	0.5 (pH=7.8) (f)
Phenanthrene	85-01-8	5.0	--	87 (n)[5]	0.4 (f)
Anthracene	120-12-7	5.0	--	1,300 (n)	0.012 (f)
Carbazole	86-74-8	5.0	--	--	--
Di-n-butyl phthalate	84-74-2	5.0	--	670 (n)	3.4 (m)
Fluoranthene	206-44-0	5.0	--	630 (n)	0.04 (f)
Pyrene	129-00-0	5.0	--	87 (n)	0.025 (f)
Butyl benzyl phthalate	85-68-7	5.0	--	140 (c)	19 (f)
3,3′-Dichlorobenzidine	91-94-1	5.0	--	1.1 (c)	4.5 (f)
Benzo[a]anthracene	56-55-3	5.0	--	0.29 (c)	0.018 (f)
Chrysene	218-01-9	5.0	--	29 (c)	--
bis(2-Ethylhexyl)phthalate	117-81-7	5.0	6.0	48 (c)	16 (f)
Di-n-octyl phthalate	117-84-0	5.0	--	190 (n)	22 (f)
Benzo[b]fluoranthene	205-99-2	5.0	--	0.29 (c)	--
Benzo[k]fluoranthene	207-08-9	5.0	--	2.9 (c)	--
Benzo[a]pyrene	50-32-8	5.0	0.2	0.029 (c)	0.015 (f)
Indeno[1,2,3-cd]pyrene	193-39-5	5.0	--	0.29 (c)	--
Dibenzo[a,h]anthracene	53-70-3	5.0	--	0.029 (c)	--
Benzo[g,h,i]perylene	191-24-2	5.0	--	87 (n)[5]	--
2,3,4,6-Tetrachlorophenol	58-90-2	5.0	--	170 (n)	1.2 (f)
Total Monochlorophenols	NA	NA	NA	NA	7.0 (f)
Total Dichlorophenols	NA	NA	NA	NA	0.2 (f)
Total Trichlorophenols	NA	NA	NA	NA	18 (f)
Total Tetrachlorophenols	NA	NA	NA	NA	1.0 (f)
TCL Pesticides by SOM01.1/SOM01.2					
alpha-BHC	319-84-6	0.050	--	0.062 (c)	2.2 (f)
beta-BHC	319-85-7	0.050	--	0.22 (c)	2.2 (f)
delta-BHC	319-86-8	0.050	--	--	141 (f)
gamma-BHC (Lindane)	58-89-9	0.050	0.2	0.36 (c)	0.01 (f)
Heptachlor	76-44-8	0.050	0.4	0.018 (c)	0.0019 (f)
Aldrin	309-00-2	0.050	--	0.04 (c)	0.13 (m)
Heptachlor epoxide	1024-57-3	0.050	0.2	0.033 (c)	0.0019 (f)
Endosulfan I	959-98-8	0.050	--	78 (n)	0.001 (as mixed isomers) (m)

Freedom_0004448_0003

Table 5.4 (continued)
Surface Water Sampling Analytical Parameters and Potential Screening Values

Analyte	CAS Number	CRQL/ CRDL (µg/L)	EPA MCL (µg/L)	EPA Tap Water RSL[1] (µg/L)	Region 3 Freshwater/Marine Benchmark[2] (µg/L)
Dieldrin	60-57-1	0.10	--	0.015 (c)	0.056 (f)
4,4′-DDE	72-55-9	0.10	--	2.0 (c)	see Total DDD/DDE/DDT
Endrin	72-20-8	0.10	2.0	1.7 (n)	0.01 (m)
Endosulfan II	33213-65-9	0.10	--	78 (n)	0.001 (as mixed isomers) (m)
4,4′-DDD	72-54-8	0.10	--	0.27	see Total DDD/DDE/DDT
Endosulfan sulfate	1031-07-8	0.10	--	--	0.009 (m)
4,4′-DDT	50-29-3	0.10	--	2.0 (c)	see Total DDD/DDE/DDT
Methoxychlor	72-43-5	0.50	40	27 (n)	0.019 (f)
Endrin ketone	53494-70-5	0.10	--	--	--
Endrin aldehyde	7421-93-4	0.10	--	--	--
alpha-Chlordane	5103-71-9	0.050	2.0	1.9 (c)	0.0022 (f)
gamma-Chlordane	5103-74-2	0.050	2.0	1.9 (c)	0.0022 (f)
Toxaphene	8001-35-2	5.0	3.0	0.13 (c)	0.0002 (f)
Total DDD/DDE/DDT	NA	NA	NA	NA	0.000011 (f)
TCL PCBs by SOM01.1/SOM01.2					
Aroclor-1016	12674-11-2	1.0	0.5 (PCBs)	1.1 (n)	see Total PCBs
Aroclor-1221	11104-28-2	1.0	0.5 (PCBs)	0.04 (c)	see Total PCBs
Aroclor-1232	11141-16-5	1.0	0.5 (PCBs)	0.04 (c)	see Total PCBs
Aroclor-1242	53469-21-9	1.0	0.5 (PCBs)	0.34 (c)	see Total PCBs
Aroclor-1248	12672-29-6	1.0	0.5 (PCBs)	0.34 (c)	see Total PCBs
Aroclor-1254	11097-82-5	1.0	0.5 (PCBs)	0.31 (n)	see Total PCBs
Aroclor-1260	11096-82-5	1.0	0.5 (PCBs)	0.34 (c)	see Total PCBs
Aroclor-1262	37324-23-5	1.0	0.5 (PCBs)	0.34 (c)[6]	see Total PCBs
Aroclor-1268	11100-14-4	1.0	0.5 (PCBs)	0.34 (c)[6]	see Total PCBs
Total PCBs	NA	0.00005	NA	0.00064	0.000074 (f)
TAL Metals by ILM05.3/ILM05.4 (ICP-AES and CVAA)					
Aluminum	7429-90-5	200	--	16,000 (n)	87 (f)
Calcium	7440-70-2	5,000	--	--	116,000 (f)
Iron	7439-89-6	100	--	11,000 (n)	300 (f)
Magnesium	7439-95-4	5,000	--	--	82,000 (f)
Potassium	7440-09-7	5,000	--	--	53,000 (f)
Sodium	7440-23-5	5,000	--	--	680,000 (f)
TAL Metals by ILM05.3/ILM05.4 (ICP-MS)					
Antimony	7440-36-0	2.0	6.0	6.0 (n)	30 (f)
Arsenic	7440-38-2	1.0	10	0.45 (c)	3.1 (as Arsenic V) (f)
Barium	7440-39-3	10	2,000	2,900 (n)	4.0 (f)
Beryllium	7440-41-7	1.0	4.0	1.6 (n)	0.66 (f)
Cadmium	7440-43-9	1.0	5.0	6.9 (n)	0.12 (m)
Chromium	7440-47-3	2.0	100	0.31 (c) (as chromium VI)	1.5 (as chromium VI) (m)
Cobalt	7440-48-4	1.0	--	4.7 (n)	23 (f)
Copper	7440-50-8	2.0	1,300	620 (n)	3.1 (m)
Lead	7439-92-1	1.0	15[8]	--	2.5[7] (f)
Manganese	7439-96-5	1.0	--	320 (n)	120 (f)
Nickel	7440-02-0	1.0	--	300 (n)	5.2[7] (f)

Freedom_0004448_0004

Table 5.4 (continued)
Surface Water Sampling Analytical Parameters and Potential Screening Values

Analyte	CAS Number	CRQL/ CRDL (µg/L)	EPA MCL (µg/L)	EPA Tap Water RSL[1] (µg/L)	Region 3 Freshwater/Marine Benchmark[2] (µg/L)
Selenium	7782-49-2	5.0	50	78 (n)	1.0 (f)
Silver	7440-22-4	1.0	--	71 (n)	0.23 (m)
Thallium	7440-28-0	1.0	2.0	0.16 (n)	0.8 (f)
Tin	7440-31-5	0.5	--	9,300 (n)	73 (f)
Vanadium	7440-62-2	1.0	--	78 (n)	20 (f)
Zinc	7440-66-6	2.0	--	4,700 (n)	81 (m)
TAL Metals by ILM05.3/ILM05.4 (CVAA)					
Mercury	7439-97-6	0.2	2.0	1.6 (n) (as methyl mercury)	0.004 (as methyl mercury) (f)
Cyanide by ILM05.3/ILM05.4 (Spectrophotometry)					
Cyanide	57-12-5	10	200	1.4 (n)	1 (m)
Hexavalent Chromium by SW7196A[9]					
Hexavalent chromium	18540-29-9	10	100	0.31 (c)	1.5 (m)
Explosives by SW8330A[9]					
1,3,5-Trinitrobenzene	99-35-4	0.17	--	460 (n)	--
1,3-Dinitrobenzene	99-65-0	0.17	--	1.5 (n)	--
2,4,6-Trinitrotoluene	118-96-7	0.17	--	7.6 (n)	100 (f,m)
2,4-Dinitrotoluene	121-14-2	0.34	--	2.0	44 (f)
2,6-Dinitrotoluene	606-20-2	0.34	--	0.92 (as mixture of isomers)	81 (f)
2-Amino-4,6-dinitrotoluene	35572-78-2	0.34	--	30 (n)	1,480 (f)
2-Nitrotoluene	88-72-2	0.34	--	2.7 (c)	--
3-Nitrotoluene	99-08-1	0.34	--	1.3 (n)	750 (f)
4-Amino-2,6-dinitrotoluene	19406-51-0	0.34	--	30 (n)	--
4-Nitrotoluene	99-99-0	0.34	--	37 (c)	1,900 (f)
HMX	2691-41-0	0.34	--	780 (n)	150 (f)
Nitrobenzene	98-95-3	0.17	--	1.2 (c)	66.8 (m)
RDX	121-82-4	0.17	--	6.1 (c)	360
Tetryl	479-45-8	0.42	--	61 (n)	--
PCDDs and PCDFs by DLM02.2 (all concentrations in pg/L)					
2,3,7,8-TCDD	1746-01-6	10	30	see TEQ	0.0031 (f)
1,2,3,7,8-PeCDD	40321-76-4	50	--	see TEQ	--
1,2,3,4,7,8-HxCDD	39227-28-6	50	--	see TEQ	--
1,2,3,6,7,8-HxCDD	57653-85-7	50	--	see TEQ	--
1,2,3,7,8,9-HxCDD	19408-74-3	50	--	see TEQ	--
1,2,3,4,6,7,8-HpCDD	35822-46-9	50	--	see TEQ	--
OCDD	3268-87-9	100	--	see TEQ	--
2,3,7,8-TCDF	51207-31-9	10	--	see TEQ	--
1,2,3,7,8-PeCDF	57117-41-6	50	--	see TEQ	--
2,3,4,7,8-PeCDF	57117-31-4	50	--	see TEQ	--
1,2,3,4,7,8-HxCDF	70648-26-9	50	--	see TEQ	--
1,2,3,6,7,8-HxCDF	57117-44-9	50	--	see TEQ	--
1,2,3,7,8,9-HxCDF	72918-21-9	50	--	see TEQ	--
2,3,4,6,7,8-HxCDF	60851-34-5	50	--	see TEQ	--
1,2,3,4,6,7,8-HpCDF	67562-39-4	50	--	see TEQ	--
1,2,3,4,7,8,9-HpCDF	55673-89-7	50	--	see TEQ	--
OCDF	39001-02-0	100	--	see TEQ	--

Freedom_0004448_0005

Table 5.4 (continued)
Surface Water Sampling Analytical Parameters and Potential Screening Values

Analyte	CAS Number	CRQL/ CRDL (µg/L)	EPA MCL (µg/L)	EPA Tap Water RSL[1] (µg/L)	Region 3 Freshwater/Marine Benchmark[2] (µg/L)
Toxicity Equivalent Quantity (TEQ)[10]	--	--	--	5.2 (c) 0.051[11]	--
PCB Congeners by Method 1668[9][12]					
PCB Congeners (1 – 209)	NA	0.0005	0.5	0.00064[11]	NA
Water Quality Parameters[9]					
Alkalinity (SM2320B)	ALK	10,000	--	--	--
Hardness (SM2340B or C)	HARD	10,000	--	--	--
Chloride (SW9056 or SM4110B)	16887-00-6	2,000	--	--	230,000 (f)
Sulfate (SW9056 or SM4110B)	14808-79-8	2,000	--	--	--
Nitrate (SW9056 or SM4110B)	14797-55-8	100	10,000	25,000 (n)	--
Nitrite (SW9056 or SM4110B)	14797-65-0	100	1,000	1,600 (n)	20 (cold water) (f)
Sulfide (SW9030B/9034)	7783-06-4	50	--	--	2.0 (f,m)

(1) EPA Region 3 Tap Water RSLs based upon November 2012 RSL table. Noncarcinogenic (n) RSLs based on hazard index of 1; carcinogenic RSLs (c) based on a hazard quotient of 1 x 10^{-5}.
(2) The lower of the EPA Region 3 freshwater and marine benchmark provided.
(3) EPA MCL for total trihalomethanes.
(4) The RSL for acenaphthene is used as a proxy.
(5) The RSL for pyrene is used as a proxy.
(6) The RSL for PCB-1260 is used as a proxy.
(7) Value corresponds to a hardness = 100 mg/L.
(8) Action Level
(9) Not an analytical method in the CLP; the CRQL/CRDL is a reporting limit that is considered to be practical under the method.
(10) The TEQ is calculated on a sample -specific basis by summing the concentration of each detected 2,3,7,8 -substituted PCDD/PCDF isomer converted to the equivalent concentra tion of 2,3,7,8-TCDD using the toxicity equivalent factors (TEFs) published by the World Health Organization (WHO, 2005).
(11) Virginia Water Quality Criterion (WQC) calculated to protect human health from toxic effects through fish consumption. Comparison of results to this criterion will be used to assess the potential impact on human health due to bioaccumulation in fish.
(12) This analytical method will only be requested for strategically selected sample locations. Results from this method will be used in order to support Virginia's total maximum daily load (TMDL) allocation for PCBs and can also be used to refine the conclusions of t he site characterization and risk assessment; however, these results will not be usable for determining nature and exten t of contamination or in the calculation of risk to human health or the environment.

AWQC = ambient water quality criteria
$CaCO_3$ = calcium carbonate
CAS = Chemical Abstract Service
CRDL = contract required detection limit
CRQL = contract required quantitation limit
µg/L = micrograms per liter
mg/L = milligrams per liter
MCL = maximum contaminant level
SSL = soil screening level
PCB = polychlorinated biphenyl
PCDD = polychlorinated dibenzo-*p*-dioxin
PCDF = polychlorinated dibenzofuran
SVOC = semivolatile organic compound
TAL = Target Analyte List
TCL = Target Compound List
TEQ = Toxicity Equivalent Quantity
VOC = volatile organic compound
RSL = Regional Screening Level
EPA = U. S. Environmental Protection Agency
NA = not applicable
-- = no value
f = freshwater benchmark
m = marine benchmark

Freedom_0004448_0006