

The Risk Assessment Information System Compendium of Ecological Screening Benchmarks for Chemicals and Radionuclides (2025) (Volume IV – Chemicals for Surface Water: Marine)



Janou S. Milligan
Debra J. Stewart
Fredrick G. Dolislager
Katie A. Noto
Karessa L. Manning

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**THE RISK ASSESSMENT INFORMATION SYSTEM COMPENDIUM OF
ECOLOGICAL SCREENING BENCHMARKS FOR CHEMICALS AND
RADIONUCLIDES (2025) (VOLUME IV – CHEMICALS FOR SURFACE WATER:
MARINE)**

Janou S. Milligan, Debra J. Stewart, Fredrick G. Dolislager, Katie A. Noto, Karessa L. Manning

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OAK RIDGE NATIONAL LABORATORY
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1. INTRODUCTION

Volume IV presents the chemical benchmarks for surface water: marine. Consult Volume I for information on the sources.

2. CHEMICAL BENCHMARKS FOR SURFACE WATER (MARINE)

Table 1: Benchmark Values for Acenaphthene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
83-32-9	British Columbia	Marine LTC	Not specified	0.0060
83-32-9	California	Saltwater other toxicity	Not specified	0.5000
83-32-9	California	Saltwater chronic	Not specified	0.7100
83-32-9	California	Saltwater acute	Not specified	0.9700
83-32-9	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0400
83-32-9	EPA Region 3	BTAG – Marine	Not specified	0.0066
83-32-9	EPA Region 4	Chronic Marine	Not specified	0.0150
83-32-9	EPA Region 4	Acute Marine	Not specified	0.3200
83-32-9	EPA Region 6	Saltwater Chronic	Not specified	0.0404
83-32-9	EPA Region 6	Saltwater Acute	Not specified	0.1408
83-32-9	Florida	SWQS for Fish Consumption in Marine water	Not specified	2.7000

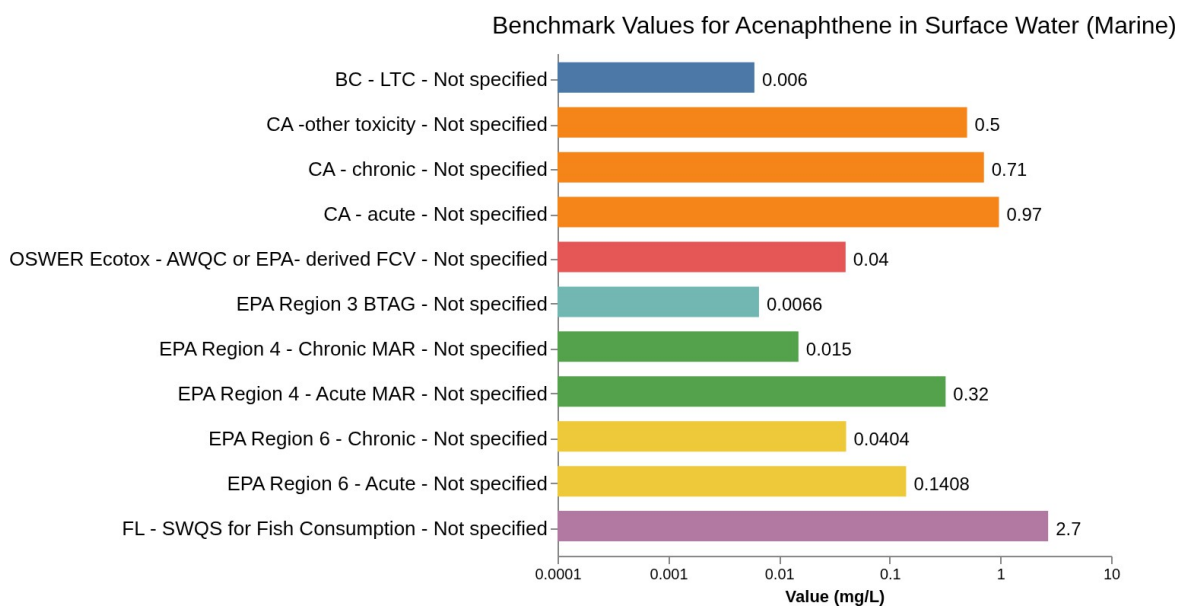


Table 2: Benchmark Values for Acenaphthylene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
208-96-8	California	Saltwater acute	Not specified	0.300
208-96-8	EPA Region 4	Chronic Marine	Not specified	0.028
208-96-8	EPA Region 4	Acute Marine	Not specified	0.291

Benchmark Values for Acenaphthylene in Surface Water (Marine)

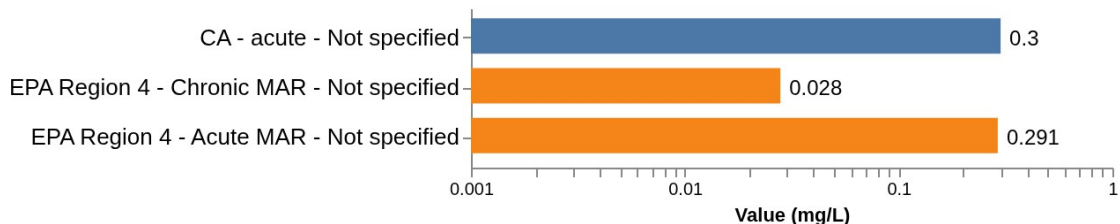


Table 3: Benchmark Values for Acephate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
30560-19-1	EPA Region 4	Chronic Marine	Not specified	0.0015
30560-19-1	EPA Region 4	Acute Marine	Not specified	0.0280

Benchmark Values for Acephate in Surface Water (Marine)

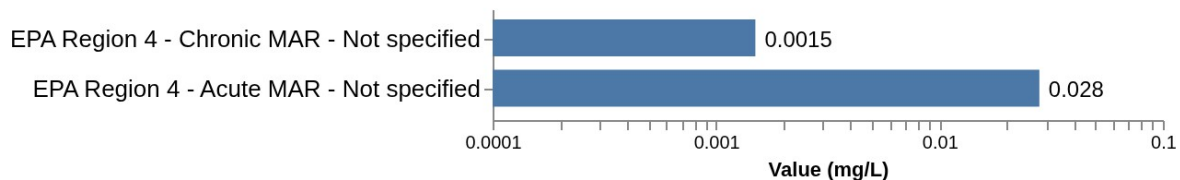


Table 4: Benchmark Values for Acetaldehyde in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-07-0	EPA Region 4	Chronic Marine	Not specified	0.02
75-07-0	EPA Region 4	Acute Marine	Not specified	1.68

Benchmark Values for Acetaldehyde in Surface Water (Marine)

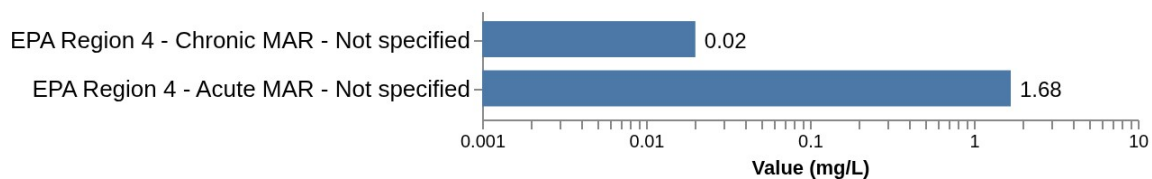


Table 5: Benchmark Values for Acetic acid, 2-(4-Chloro-2-methylphenoxy) (MCPA) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
94-74-6	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0014	82, 83
94-74-6	Canada	Marine Long Term	Not specified	0.0042	
94-74-6	EPA Region 4	Chronic Marine	Not specified	0.0042	
94-74-6	EPA Region 4	Acute Marine	Not specified	0.0400	

Benchmark Values for Acetic acid, 2-(4-Chloro-2-methylphenoxy) (MCPA) in Surface Water (Marine)

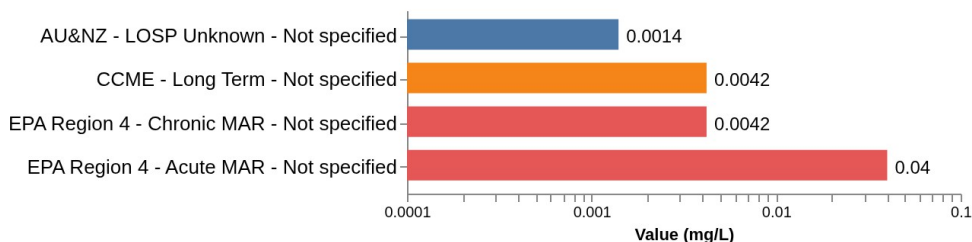


Table 6: Benchmark Values for Acetone in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
67-64-1	EPA Region 3	BTAG – Marine	Not specified	564.000
67-64-1	EPA Region 4	Chronic Marine	Not specified	117.629
67-64-1	EPA Region 4	Acute Marine	Not specified	355.606
67-64-1	EPA Region 6	Saltwater Chronic	Not specified	282.000
67-64-1	EPA Region 6	Saltwater Acute	Not specified	1692.000

Benchmark Values for Acetone in Surface Water (Marine)

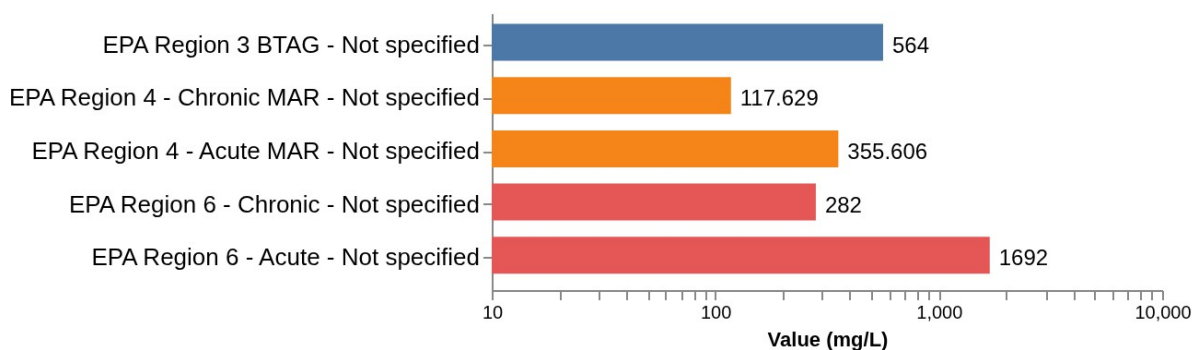


Table 7: Benchmark Values for Acetonitrile in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-05-8	EPA Region 4	Chronic Marine	Not specified	73.429
75-05-8	EPA Region 4	Acute Marine	Not specified	217.936

Benchmark Values for Acetonitrile in Surface Water (Marine)

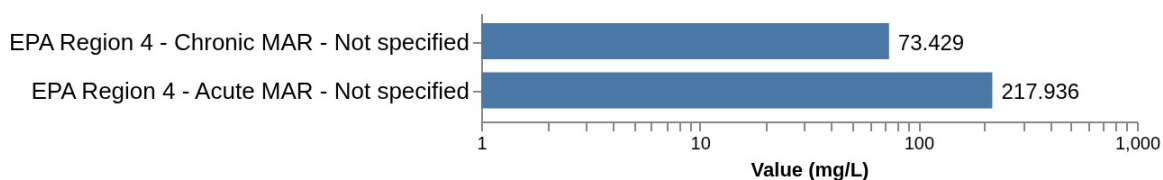


Table 8: Benchmark Values for Acrolein in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-02-8	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.00001	82, 83
107-02-8	California	Saltwater acute	Not specified	0.05500	
107-02-8	EPA Region 3	BTAG – Marine	Not specified	0.00055	
107-02-8	EPA Region 4	Chronic Marine	Not specified	0.00180	
107-02-8	EPA Region 4	Acute Marine	Not specified	0.00760	
107-02-8	EPA Region 6	Saltwater Chronic	Not specified	0.00500	
107-02-8	EPA Region 6	Saltwater Acute	Not specified	0.03000	

Benchmark Values for Acrolein in Surface Water (Marine)

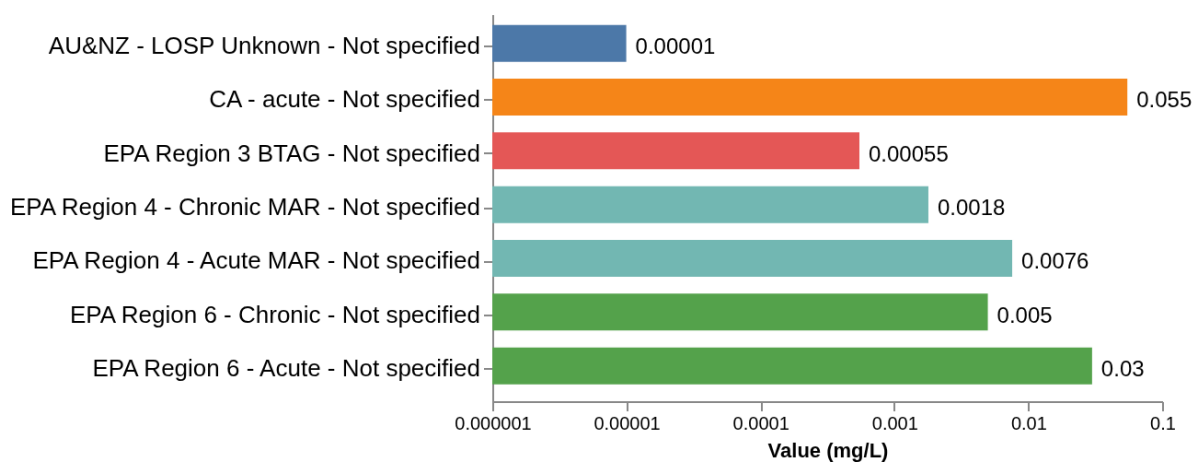


Table 9: Benchmark Values for Acrylonitrile in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
107-13-1	EPA Region 3	BTAG – Marine	Not specified	0.581
107-13-1	EPA Region 4	Chronic Marine	Not specified	0.391
107-13-1	EPA Region 4	Acute Marine	Not specified	0.858
107-13-1	EPA Region 6	Saltwater Chronic	Not specified	1.810
107-13-1	EPA Region 6	Saltwater Acute	Not specified	5.420

Benchmark Values for Acrylonitrile in Surface Water (Marine)

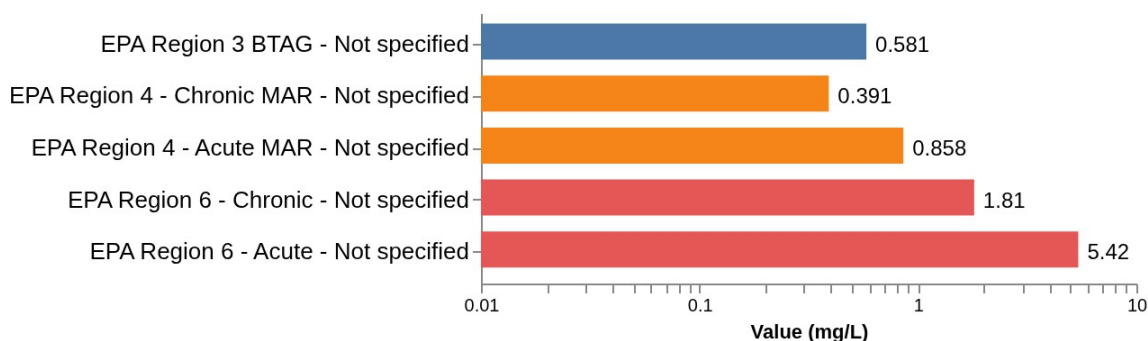


Table 10: Benchmark Values for Alcohol ethoxylated sulfate (AES) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68585-34-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.34	82, 87
68585-34-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.65	82, 83
68585-34-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.85	82, 83
68585-34-2	Australia and New Zealand	Marine LOSP 80	Not specified	1.10	82, 83

Benchmark Values for Alcohol ethoxylated sulfate (AES) in Surface Water (Marine)

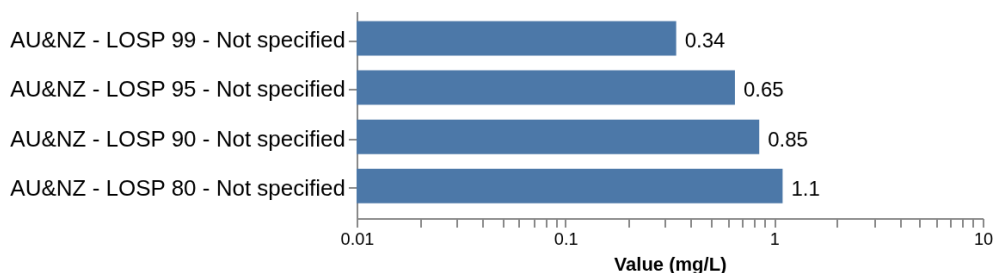


Table 11: Benchmark Values for Alcohol ethoxylated surfacants (AE) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-02-0	Australia and New Zealand	Marine LOSP 99	Not specified	0.05	82, 88
000000-02-0	Australia and New Zealand	Marine LOSP 95	Not specified	0.14	82, 83
000000-02-0	Australia and New Zealand	Marine LOSP 90	Not specified	0.22	82, 83
000000-02-0	Australia and New Zealand	Marine LOSP 80	Not specified	0.36	82, 83

Benchmark Values for Alcohol ethoxylated surfacants (AE) in Surface Water (Marine)

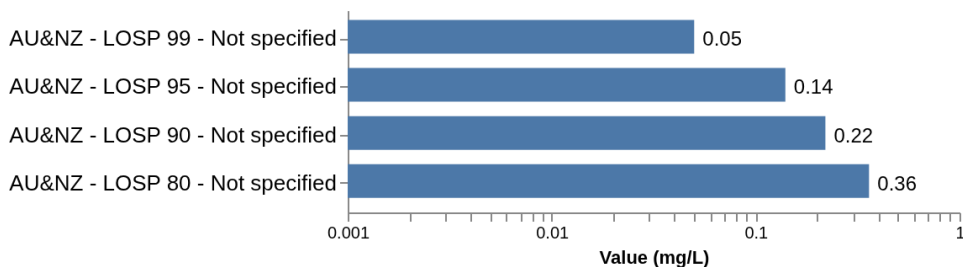


Table 12: Benchmark Values for Aldicarb in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
116-06-3	Canada	Marine Long Term	Not specified	0.00015

Benchmark Values for Aldicarb in Surface Water (Marine)

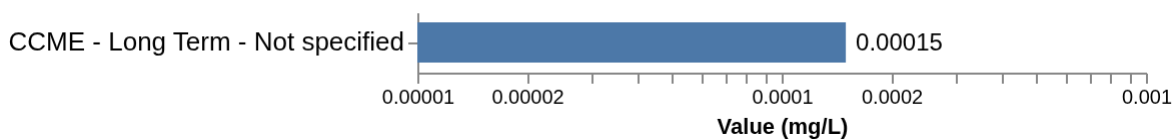


Table 13: Benchmark Values for Aldrin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
309-00-2	Australia and New Zealand	Marine LOSP Unknown	Not specified	3.000000e-06	83, 101
309-00-2	California	Saltwater instantaneous max	Not specified	1.300000e-03	
309-00-2	Delaware	Marine Acute Criterion	Not specified	1.300000e-03	
309-00-2	EPA NRWQC	Saltwater CMC Acute	Not specified	1.300000e-03	
309-00-2	EPA Region 3	BTAG – Marine	Not specified	1.300000e-04	
309-00-2	EPA Region 4	Chronic Marine	Not specified	1.000000e-07	7
309-00-2	EPA Region 4	Acute Marine	Not specified	1.300000e-03	7
309-00-2	EPA Region 6	Saltwater Chronic	Not specified	1.300000e-04	
309-00-2	EPA Region 6	Saltwater Acute	Not specified	1.300000e-03	
309-00-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	1.400000e-07	
309-00-2	New Jersey	Marine Acute	Not specified	1.300000e-03	

Benchmark Values for Aldrin in Surface Water (Marine)

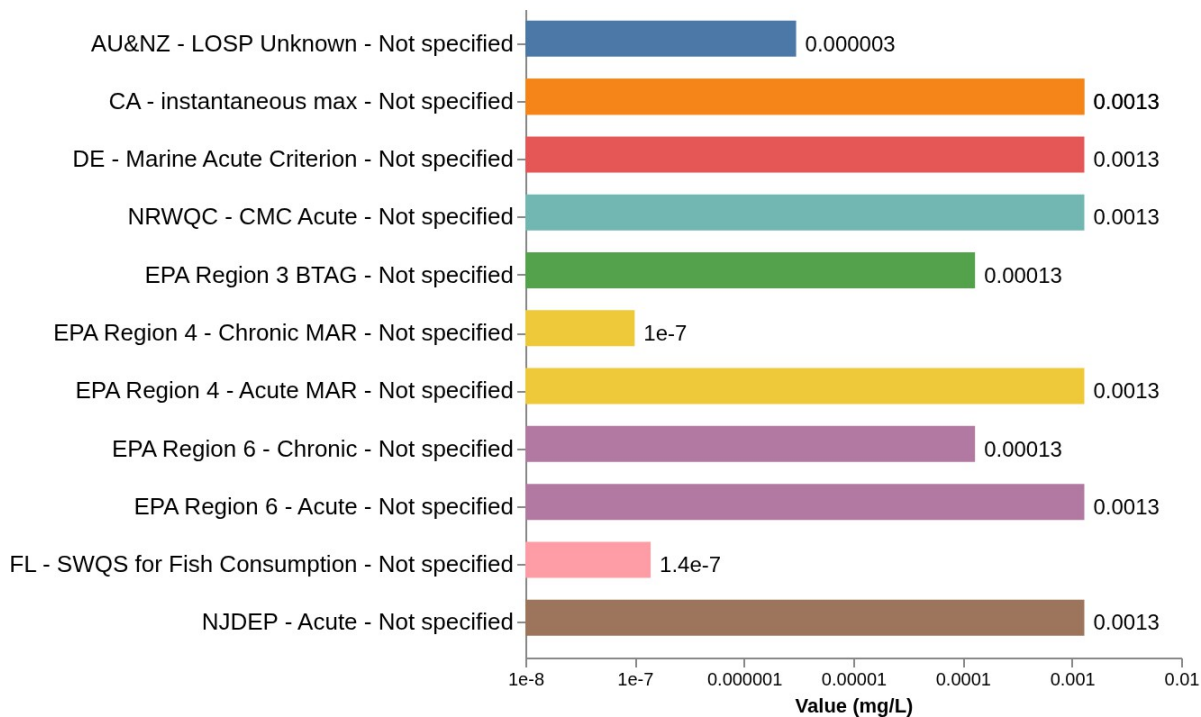


Table 14: Benchmark Values for Allyl Chloride in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-05-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.003	82, 83

Benchmark Values for Allyl Chloride in Surface Water (Marine)

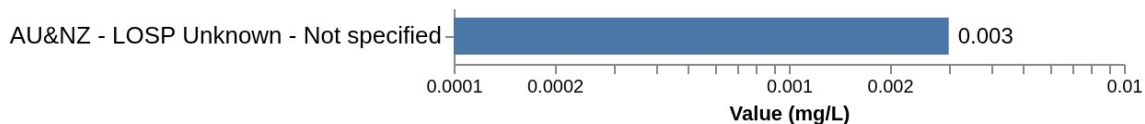


Table 15: Benchmark Values for Aluminum in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7429-90-5	EPA Region 4	Chronic Marine	Not specified	1.5
7429-90-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	1.5

Benchmark Values for Aluminum in Surface Water (Marine)

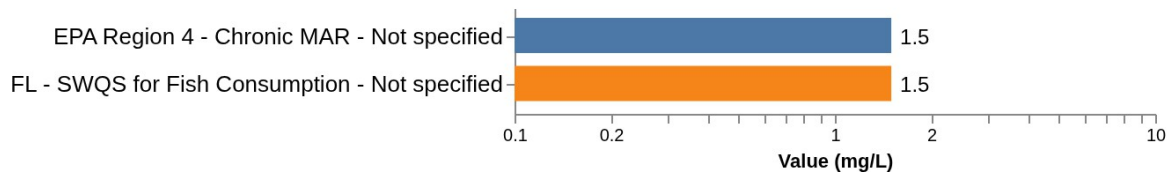


Table 16: Benchmark Values for Ammonia in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7664-41-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.50000	88, 102
7664-41-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.91000	88, 89, 102
7664-41-7	Australia and New Zealand	Marine LOSP 90	Not specified	1.20000	88, 102
7664-41-7	Australia and New Zealand	Marine LOSP 80	Not specified	1.70000	88, 102
7664-41-7	California	Saltwater CCC, 4-day average	Not specified	0.03500	
7664-41-7	California	Saltwater CMC, 1-hour average	Not specified	0.23300	
7664-41-7	California	Marine 6-month median	Not specified	0.60000	223
7664-41-7	California	Marine daily max	Not specified	2.40000	223
7664-41-7	California	Marine instantaneous max	Not specified	6.00000	223
7664-41-7	EPA Region 3	BTAG – Marine	Not specified	0.00500	
7664-41-7	EPA Region 4	Chronic Marine	Not specified	0.00000	4
7664-41-7	EPA Region 4	Acute Marine	Not specified	0.00000	4
7664-41-7	New Jersey	Marine Chronic Trout Production and Trout Maintenance	Not specified	0.01790	204
7664-41-7	New Jersey	Marine Chronic Lakes, Ponds, and Reservoirs Summer Not Trout	Not specified	0.02101	204
7664-41-7	New Jersey	Marine Chronic Lakes, Ponds, and Reservoirs Winter Not Trout	Not specified	0.02334	204
7664-41-7	New Jersey	Marine Chronic Pinelands Waters	Not specified	0.02373	204
7664-41-7	New Jersey	Marine Chronic Saline Coastal General Waters	Not specified	0.02400	204
7664-41-7	New Jersey	Marine Chronic Shellfish Harvesting Aline Estuary	Not specified	0.03000	204
7664-41-7	New Jersey	Marine Acute Trout Production and Trout Maintenance	Not specified	0.06964	204
7664-41-7	New Jersey	Marine Acute Lakes, Ponds, and Reservoirs Summer Not Trout	Not specified	0.08170	204
7664-41-7	New Jersey	Marine Acute Lakes, Ponds, and Reservoirs Winter Not Trout	Not specified	0.09026	204
7664-41-7	New Jersey	Marine Acute Pinelands Waters	Not specified	0.09259	204
7664-41-7	New Jersey	Marine Acute Saline Coastal General Waters	Not specified	0.09400	204
7664-41-7	New Jersey	Marine Acute Shellfish Harvesting Aline Estuary	Not specified	0.11500	204



Table 17: Benchmark Values for Ammonium perfluorooctanoate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3825-26-1	EPA NRWQC	Saltwater CMC Acute	Not specified	7.0	112

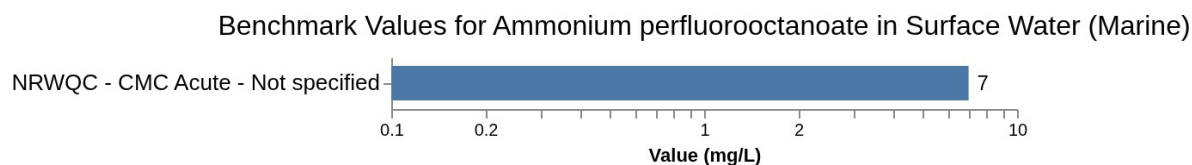


Table 18: Benchmark Values for Aniline in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
62-53-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.008	82, 88
62-53-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.250	82, 83
62-53-3	Australia and New Zealand	Marine LOSP 90	Not specified	1.100	82, 83
62-53-3	Australia and New Zealand	Marine LOSP 80	Not specified	4.800	82, 83
62-53-3	California	Saltwater CCC, 4-day average	Not specified	0.037	
62-53-3	California	Saltwater CMC, 1-hour average	Not specified	0.077	
62-53-3	EPA Region 4	Chronic Marine	Not specified	0.010	
62-53-3	EPA Region 4	Acute Marine	Not specified	0.076	

Benchmark Values for Aniline in Surface Water (Marine)

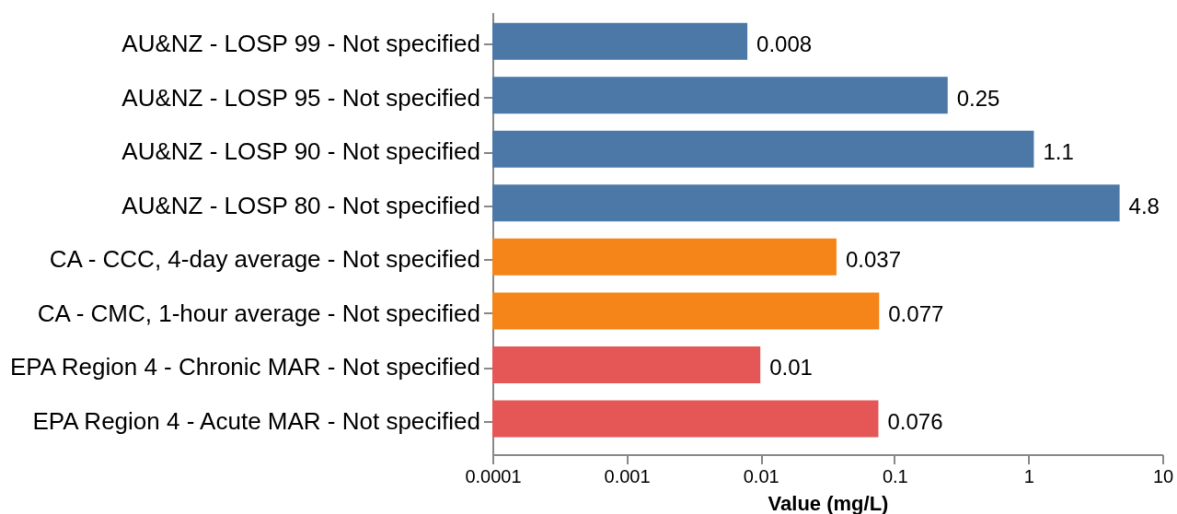


Table 19: Benchmark Values for Anthracene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-12-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.000010	83, 89, 97
120-12-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.000400	83, 97
120-12-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.001500	83, 97
120-12-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.007000	83, 97
120-12-7	California	Saltwater acute	Not specified	0.300000	
120-12-7	EPA Region 3	BTAG – Marine	Not specified	0.000180	
120-12-7	EPA Region 4	Chronic Marine	Not specified	0.000430	
120-12-7	EPA Region 4	Acute Marine	Not specified	0.001800	
120-12-7	EPA Region 6	Saltwater Chronic	Not specified	0.000036	
120-12-7	EPA Region 6	Saltwater Acute	Not specified	0.001080	
120-12-7	Florida	SWQS for Fish Consumption in Marine water	Not specified	110.000000	

Benchmark Values for Anthracene in Surface Water (Marine)

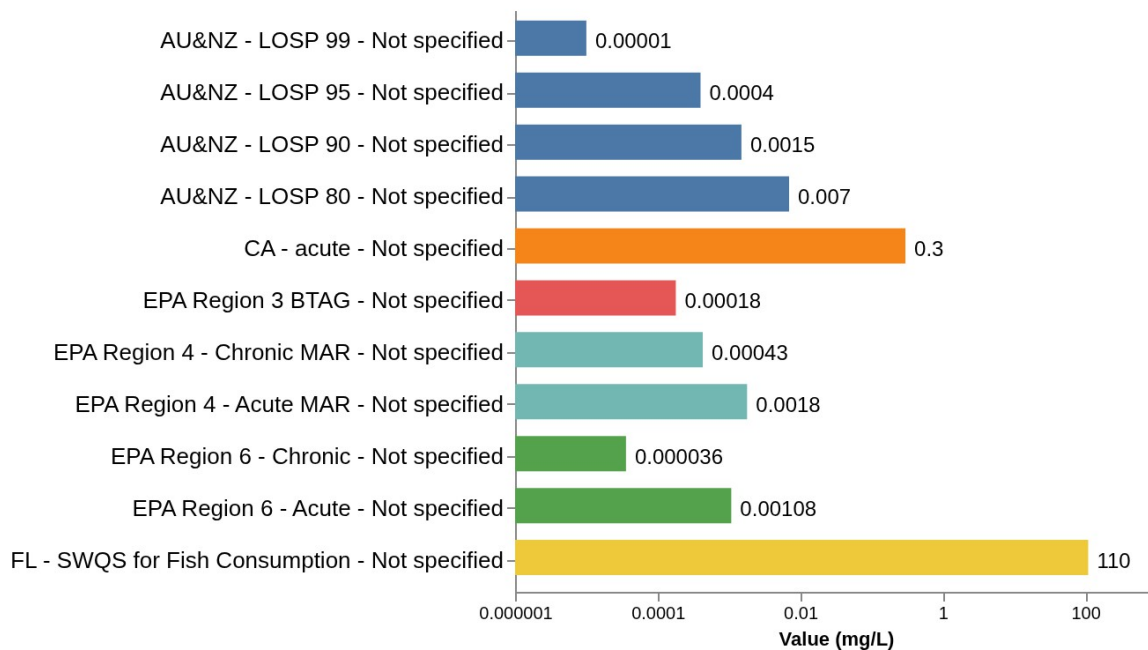
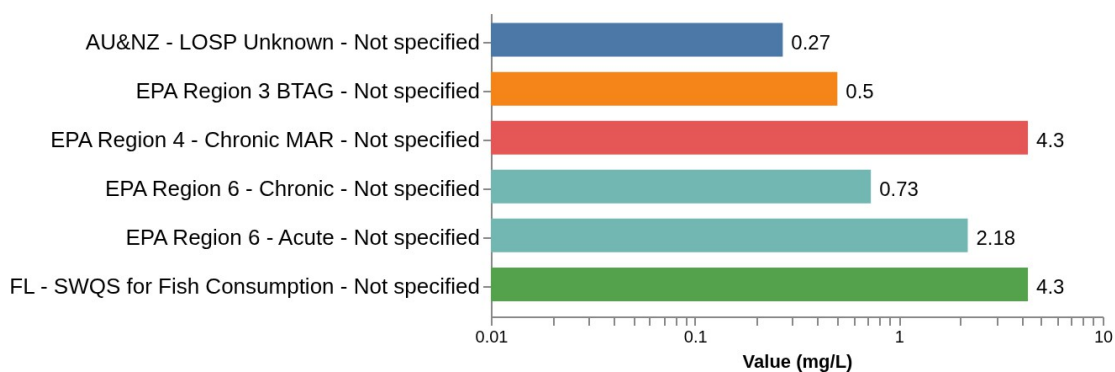
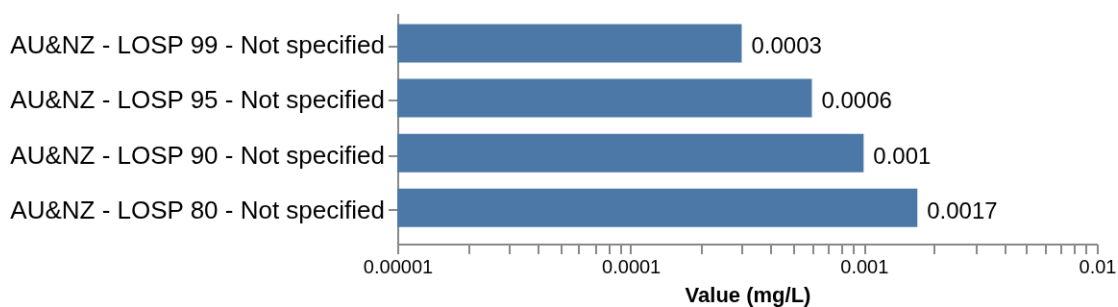


Table 20: Benchmark Values for Antimony (metallic) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-36-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.27	83
7440-36-0	EPA Region 3	BTAG – Marine	Not specified	0.50	
7440-36-0	EPA Region 4	Chronic Marine	Not specified	4.30	
7440-36-0	EPA Region 6	Saltwater Chronic	Not specified	0.73	
7440-36-0	EPA Region 6	Saltwater Acute	Not specified	2.18	
7440-36-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	4.30	

Benchmark Values for Antimony (metallic) in Surface Water (Marine)**Table 21: Benchmark Values for Aroclor 1242 in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
53469-21-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.0003	82, 87, 101
53469-21-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.0006	82, 83, 101
53469-21-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.0010	82, 83, 101
53469-21-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.0017	82, 83, 101

Benchmark Values for Aroclor 1242 in Surface Water (Marine)**Table 22: Benchmark Values for Aroclor 1254 in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
11097-69-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.00001	82, 88, 101
11097-69-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.00003	82, 83, 101
11097-69-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.00007	82, 83, 101
11097-69-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.00020	82, 83, 101

Benchmark Values for Aroclor 1254 in Surface Water (Marine)

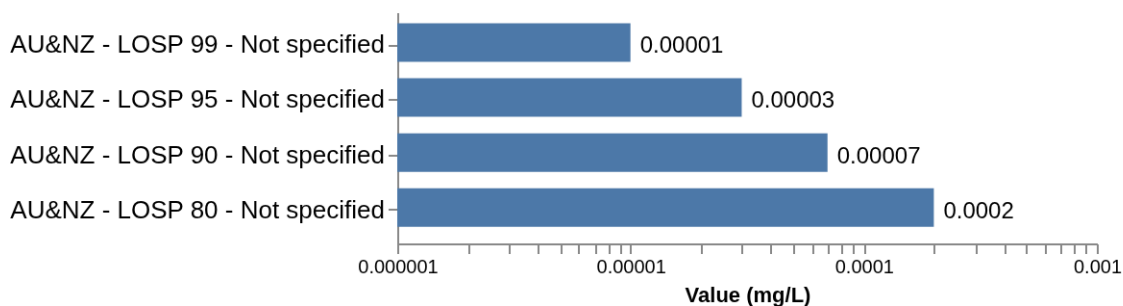


Table 23: Benchmark Values for Arsenic (III) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
22541-54-4	Delaware	Marine Chronic Criterion	Not specified	0.036	236
22541-54-4	Delaware	Marine Acute Criterion	Not specified	0.069	236
22541-54-4	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.036	
22541-54-4	EPA Region 4	Chronic Marine	Not specified	0.036	1
22541-54-4	EPA Region 4	Acute Marine	Not specified	0.069	1
22541-54-4	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.036	

Benchmark Values for Arsenic (III) in Surface Water (Marine)

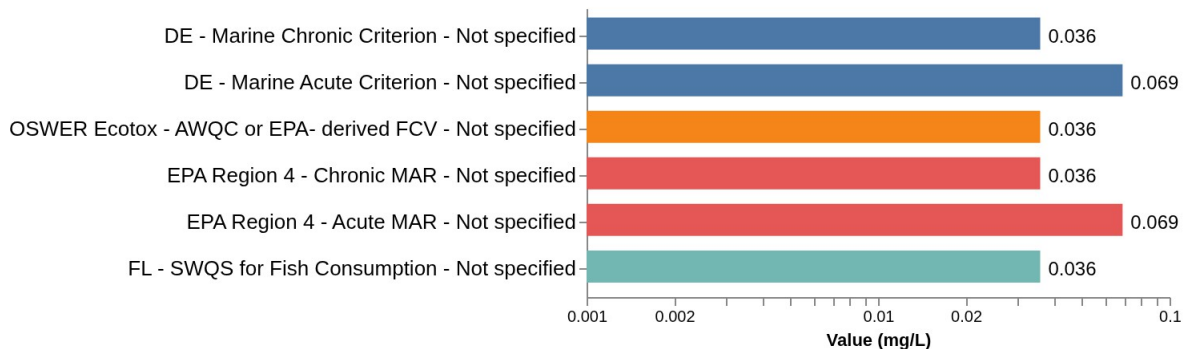


Table 24: Benchmark Values for Arsenic, Inorganic in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-38-2	British Columbia	Marine LTC	Not specified	0.0125	229
7440-38-2	California	Marine 6-month median	Not specified	0.0080	
7440-38-2	California	Marine daily max	Not specified	0.0320	
7440-38-2	California	Saltwater CCC, 4-day average	Not specified	0.0360	214
7440-38-2	California	Saltwater CMC, 1-hour average	Not specified	0.0690	214
7440-38-2	California	Saltwater CMC, 1-hour average	Not specified	0.0690	214, 216
7440-38-2	California	Marine instantaneous max	Not specified	0.0800	
7440-38-2	Canada	Marine Long Term	Not specified	0.0125	
7440-38-2	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0360	
7440-38-2	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0690	
7440-38-2	EPA Region 3	BTAG – Marine	Not specified	0.0125	
7440-38-2	EPA Region 4	Chronic Marine	Not specified	0.0360	1
7440-38-2	EPA Region 4	Acute Marine	Not specified	0.0690	1
7440-38-2	EPA Region 6	Saltwater Chronic	Not specified	0.0780	21
7440-38-2	EPA Region 6	Saltwater Acute	Not specified	0.1490	21
7440-38-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0500	
7440-38-2	New Jersey	Marine Chronic	Not specified	0.0360	199, 200
7440-38-2	New Jersey	Marine Acute	Not specified	0.0690	199, 200

Benchmark Values for Arsenic, Inorganic in Surface Water (Marine)

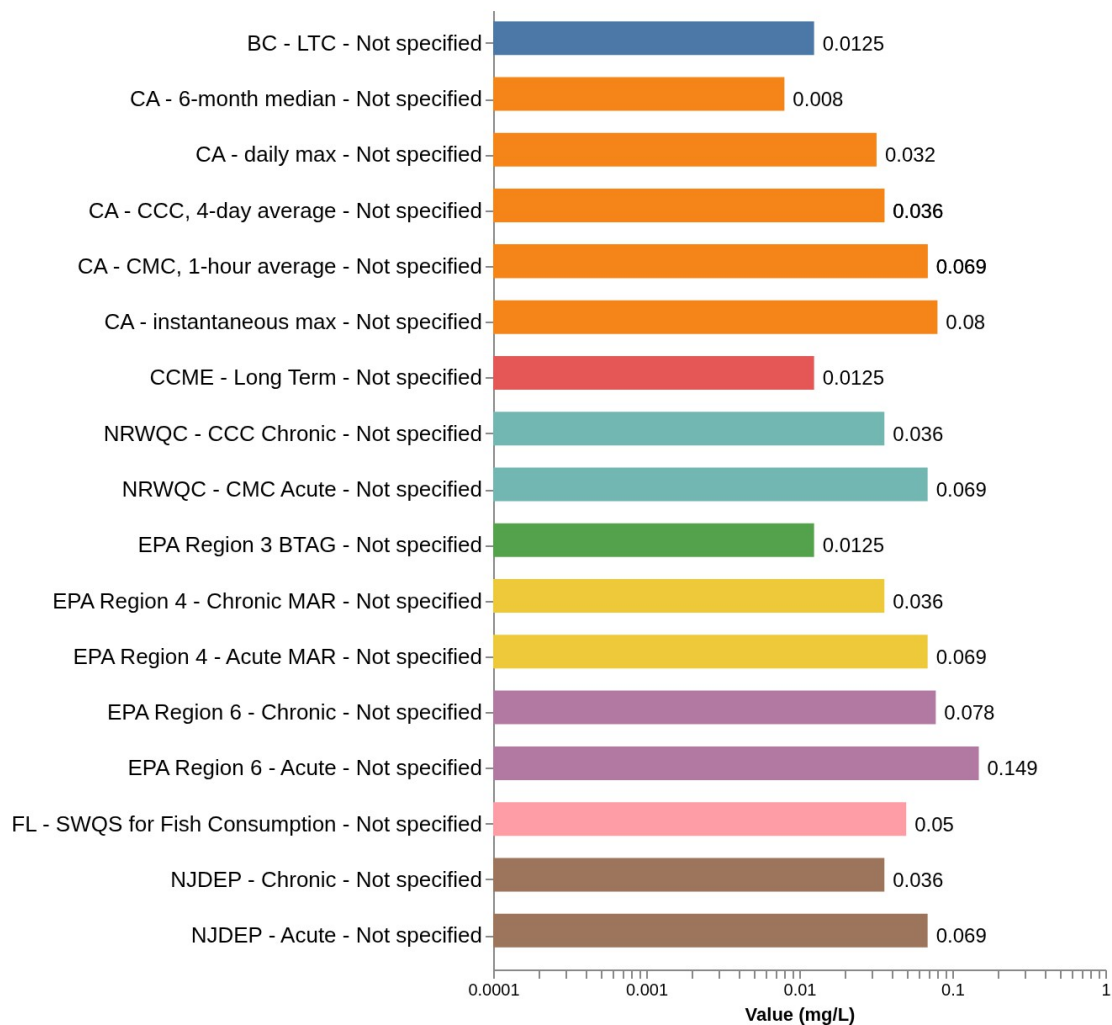


Table 25: Benchmark Values for Atrazine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1912-24-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.0007	82, 88
1912-24-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.0130	82, 83
1912-24-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.0450	82, 83
1912-24-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.1500	82, 83
1912-24-9	California	Saltwater CCC, 4-day average	Not specified	0.0170	
1912-24-9	California	Saltwater CMC, 1-hour average	Not specified	0.7600	

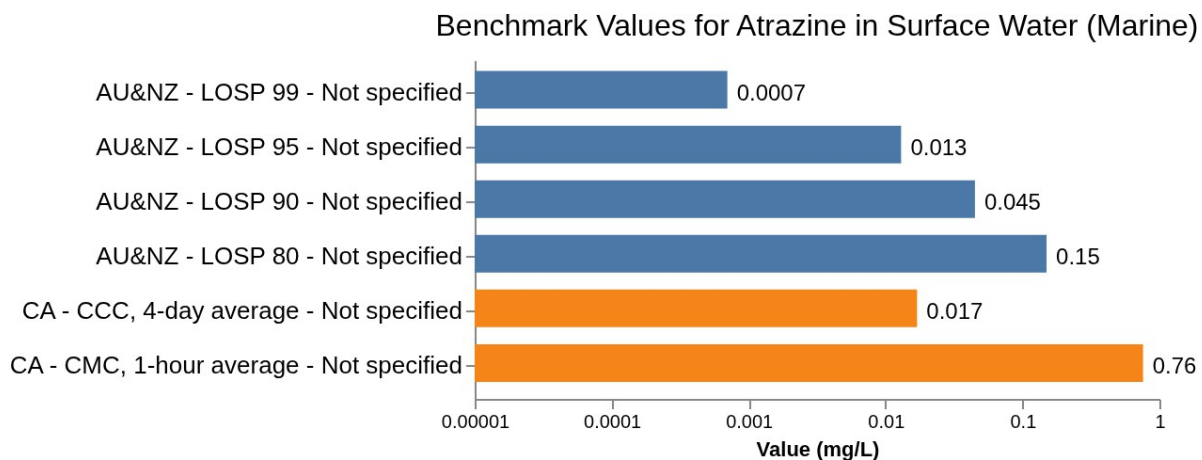


Table 26: Benchmark Values for Azinphos-methyl in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
86-50-0	Australia and New Zealand	Marine LOSP 99	Not specified	0.00001	82, 88, 89
86-50-0	Australia and New Zealand	Marine LOSP 95	Not specified	0.00002	82, 83
86-50-0	Australia and New Zealand	Marine LOSP 90	Not specified	0.00005	82, 83
86-50-0	Australia and New Zealand	Marine LOSP 80	Not specified	0.00011	82, 83
86-50-0	California	Saltwater instantaneous max	Not specified	0.00001	
86-50-0	Delaware	Marine Chronic Criterion	Not specified	0.00001	
86-50-0	EPA Region 3	BTAG – Marine	Not specified	0.00001	
86-50-0	EPA Region 4	Chronic Marine	Not specified	0.00001	
86-50-0	EPA Region 4	Acute Marine	Not specified	0.00019	
86-50-0	EPA Region 6	Saltwater Chronic	Not specified	0.00001	
86-50-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.00001	
86-50-0	New Jersey	Marine Chronic	Not specified	0.00001	

Benchmark Values for Azinphos-methyl in Surface Water (Marine)

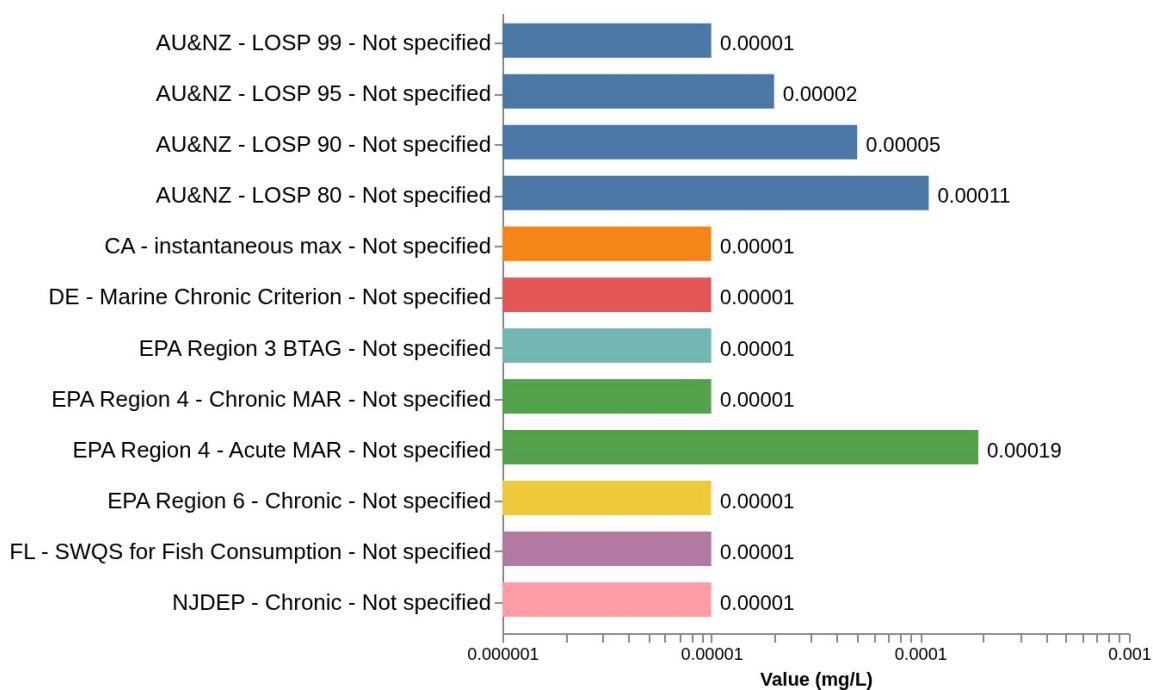


Table 27: Benchmark Values for Barium in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-39-3	EPA Region 4	Chronic Marine	Not specified	0.004
7440-39-3	EPA Region 4	Acute Marine	Not specified	0.110
7440-39-3	EPA Region 6	Saltwater Chronic	Not specified	25.000
7440-39-3	EPA Region 6	Saltwater Acute	Not specified	150.000

Benchmark Values for Barium in Surface Water (Marine)

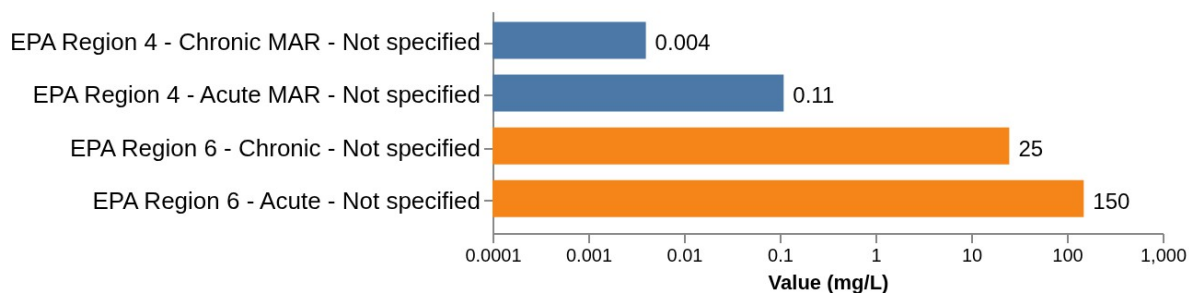


Table 28: Benchmark Values for Benz[a]anthracene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-55-3	California	Saltwater acute	Not specified	0.300000	
56-55-3	EPA Region 4	Chronic Marine	Not specified	0.000350	7
56-55-3	EPA Region 4	Acute Marine	Not specified	0.004600	7
56-55-3	EPA Region 6	Saltwater Chronic	Not specified	0.000073	
56-55-3	EPA Region 6	Saltwater Acute	Not specified	0.000451	

Benchmark Values for Benz[a]anthracene in Surface Water (Marine)

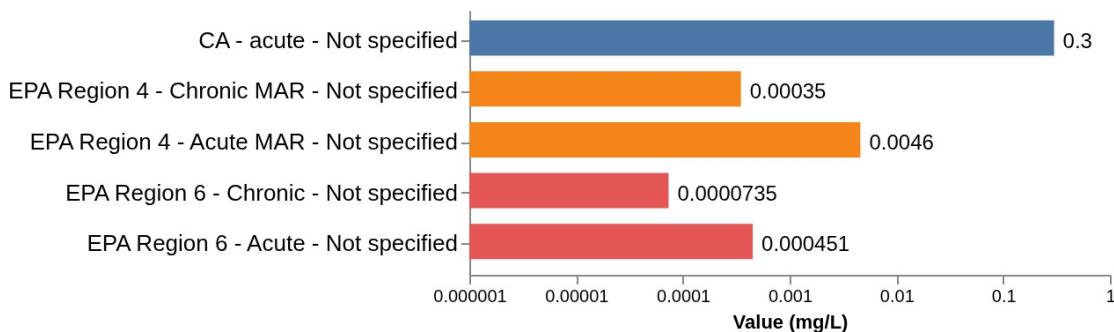


Table 29: Benchmark Values for Benzaldehyde in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
100-52-7	EPA Region 4	Chronic Marine	Not specified	0.143
100-52-7	EPA Region 4	Acute Marine	Not specified	0.592

Benchmark Values for Benzaldehyde in Surface Water (Marine)

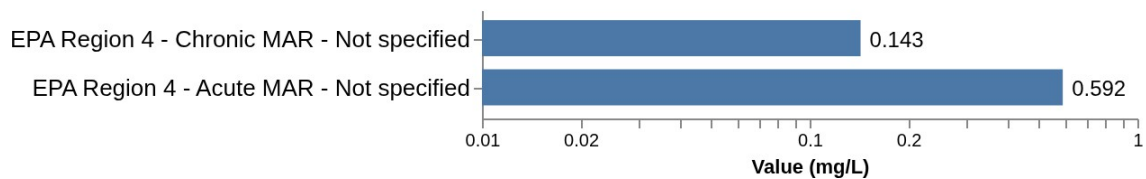


Table 30: Benchmark Values for Benzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-43-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.50000	88
71-43-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.70000	88, 90
71-43-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.90000	88, 94
71-43-2	Australia and New Zealand	Marine LOSP 80	Not specified	1.30000	88, 94
71-43-2	British Columbia	Marine LTC	Not specified	0.11000	
71-43-2	California	Saltwater other toxicity	Not specified	0.70000	
71-43-2	California	Saltwater acute	Not specified	5.10000	
71-43-2	Canada	Marine Long Term	Not specified	0.11000	
71-43-2	EPA Region 3	BTAG – Marine	Not specified	0.11000	
71-43-2	EPA Region 4	Chronic Marine	Not specified	0.11000	
71-43-2	EPA Region 4	Acute Marine	Not specified	1.70000	
71-43-2	EPA Region 6	Saltwater Chronic	Not specified	1.09000	
71-43-2	EPA Region 6	Saltwater Acute	Not specified	3.27000	
71-43-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.07128	

Benchmark Values for Benzene in Surface Water (Marine)

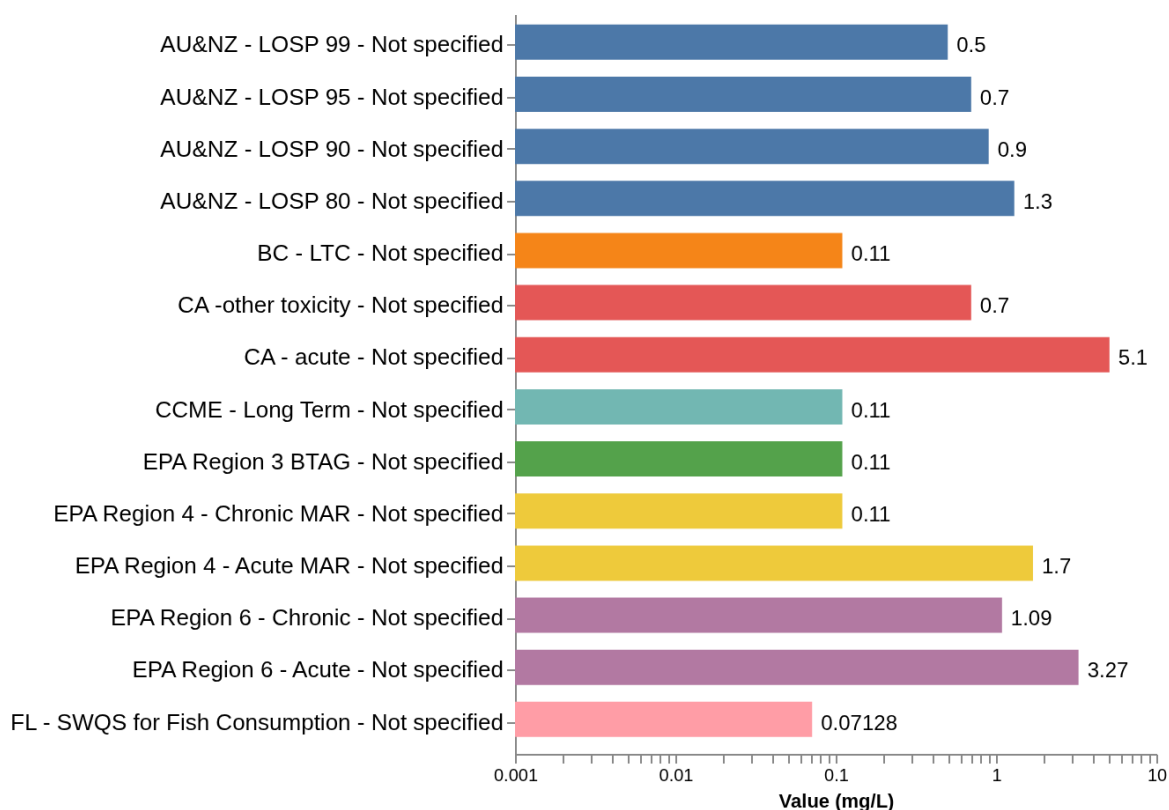


Table 31: Benchmark Values for Benzenes, chlorinated in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-2	California	Saltwater chronic	Not specified	0.129
000000-47-2	California	Saltwater acute	Not specified	0.160

Benchmark Values for Benzenes, chlorinated in Surface Water (Marine)

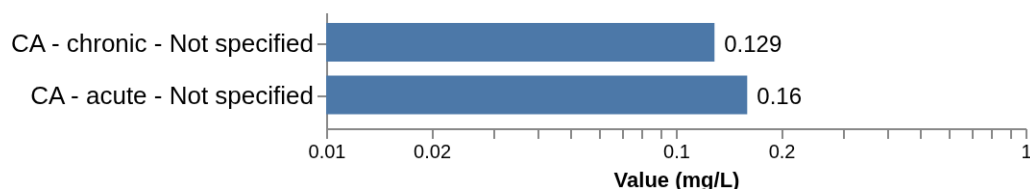


Table 32: Benchmark Values for Benzidine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
92-87-5	EPA Region 4	Chronic Marine	Not specified	0.023
92-87-5	EPA Region 4	Acute Marine	Not specified	0.660
92-87-5	EPA Region 6	Saltwater Chronic	Not specified	0.521
92-87-5	EPA Region 6	Saltwater Acute	Not specified	1.560

Benchmark Values for Benzidine in Surface Water (Marine)

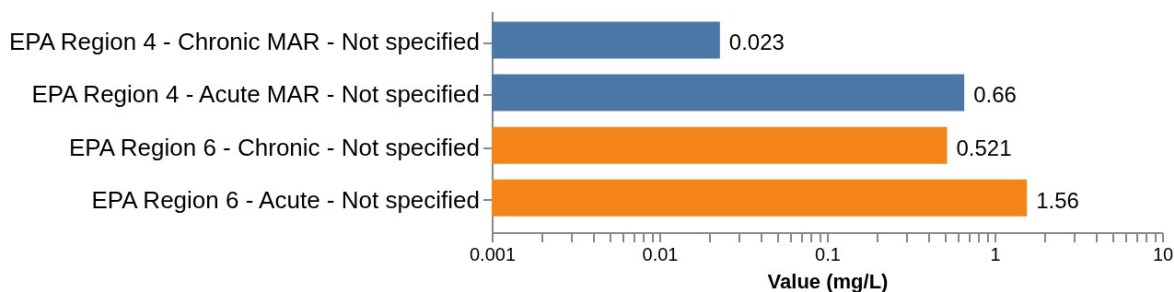


Table 33: Benchmark Values for Benzo[a]pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50-32-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.00010	83, 89, 97
50-32-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.00020	83, 97
50-32-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.00040	83, 97
50-32-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.00070	83, 97
50-32-8	British Columbia	Marine LTC	Not specified	0.00001	
50-32-8	California	Saltwater acute	Not specified	0.30000	
50-32-8	EPA Region 4	Chronic Marine	Not specified	0.00002	7
50-32-8	EPA Region 4	Acute Marine	Not specified	0.00064	7
50-32-8	EPA Region 6	Saltwater Chronic	Not specified	0.00011	
50-32-8	EPA Region 6	Saltwater Acute	Not specified	0.00330	

Benchmark Values for Benzo[a]pyrene in Surface Water (Marine)

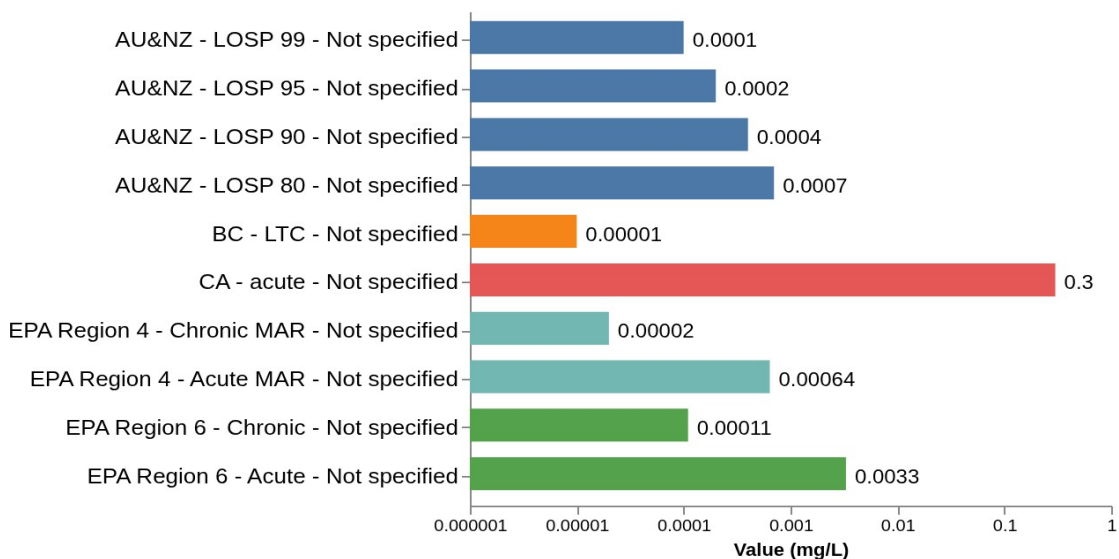


Table 34: Benchmark Values for Benzo[b]fluoranthene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
205-99-2	California	Saltwater acute	Not specified	0.30000	
205-99-2	EPA Region 4	Chronic Marine	Not specified	0.00006	7
205-99-2	EPA Region 4	Acute Marine	Not specified	0.00140	7

Benchmark Values for Benzo[b]fluoranthene in Surface Water (Marine)

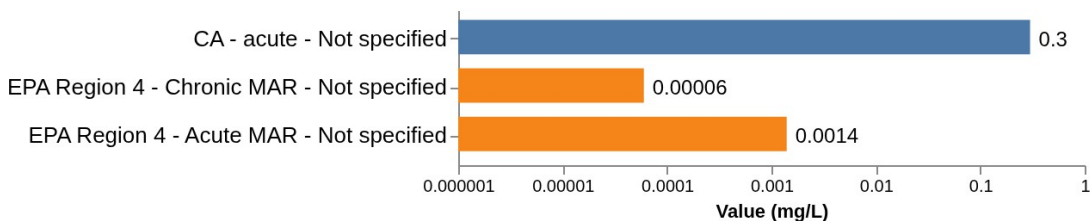


Table 35: Benchmark Values for Benzo[g,h,i]perylene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
191-24-2	California	Saltwater acute	Not specified	0.300000	
191-24-2	EPA Region 4	Chronic Marine	Not specified	0.000012	7
191-24-2	EPA Region 4	Acute Marine	Not specified	0.000190	7

Benchmark Values for Benzo[g,h,i]perylene in Surface Water (Marine)

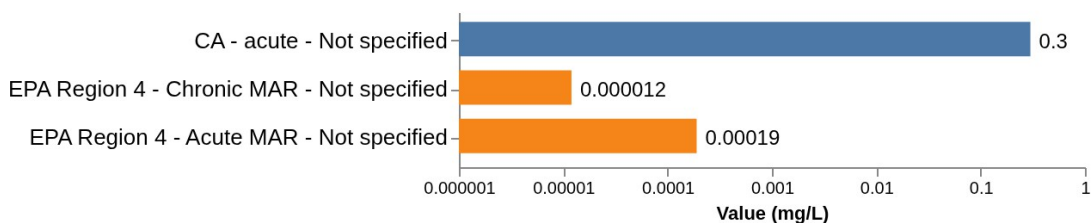


Table 36: Benchmark Values for Benzo[j]fluoranthene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
205-82-3	California	Saltwater acute	Not specified	0.3

Benchmark Values for Benzo[j]fluoranthene in Surface Water (Marine)

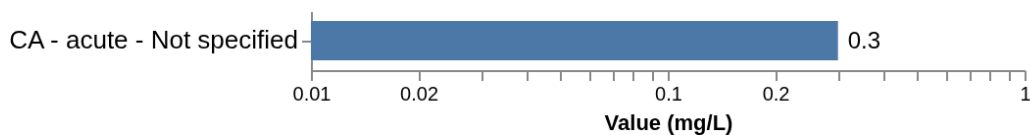


Table 37: Benchmark Values for Benzo[k]fluoranthene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
207-08-9	California	Saltwater acute	Not specified	0.30000	
207-08-9	EPA Region 4	Chronic Marine	Not specified	0.00006	7
207-08-9	EPA Region 4	Acute Marine	Not specified	0.00130	7

Benchmark Values for Benzo[k]fluoranthene in Surface Water (Marine)

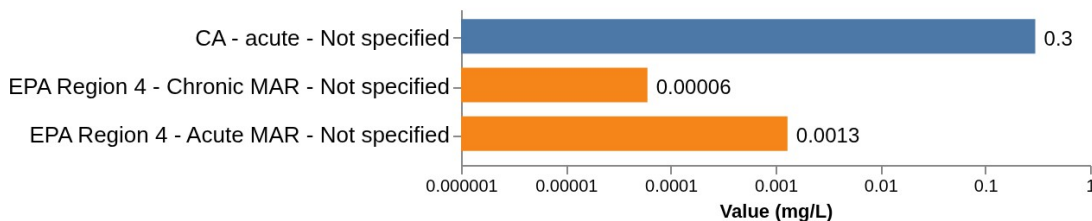


Table 38: Benchmark Values for Benzyl Alcohol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
100-51-6	EPA Region 4	Chronic Marine	Not specified	1.205
100-51-6	EPA Region 4	Acute Marine	Not specified	5.000

Benchmark Values for Benzyl Alcohol in Surface Water (Marine)

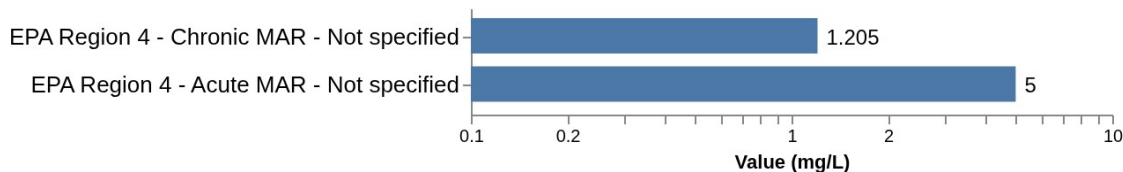


Table 39: Benchmark Values for Beryllium and compounds in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-41-7	British Columbia	Marine LTC	Not specified	0.10000
7440-41-7	EPA Region 4	Chronic Marine	Not specified	0.00013
7440-41-7	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.00013

Benchmark Values for Beryllium and compounds in Surface Water (Marine)

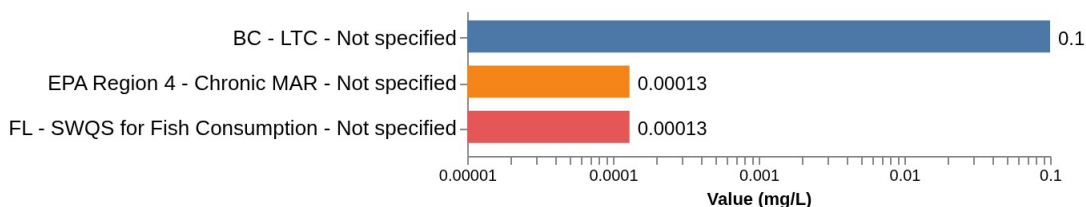


Table 40: Benchmark Values for Biphenyl, 1,1'– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
92-52-4	EPA Region 4	Chronic Marine	Not specified	0.049
92-52-4	EPA Region 4	Acute Marine	Not specified	0.198

Benchmark Values for Biphenyl, 1,1'- in Surface Water (Marine)

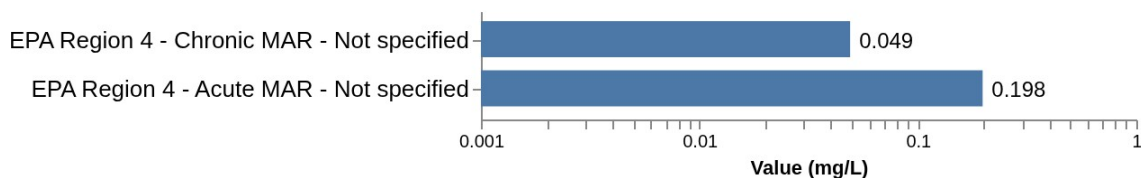


Table 41: Benchmark Values for Bis(2-ethylhexyl)phthalate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
117-81-7	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.001	82, 83, 101
117-81-7	EPA Region 4	Chronic Marine	Not specified	0.006	7
117-81-7	EPA Region 4	Acute Marine	Not specified	0.605	7
117-81-7	EPA Region 6	Saltwater Chronic	Not specified	0.100	
117-81-7	EPA Region 6	Saltwater Acute	Not specified	0.300	

Benchmark Values for Bis(2-ethylhexyl)phthalate in Surface Water (Marine)

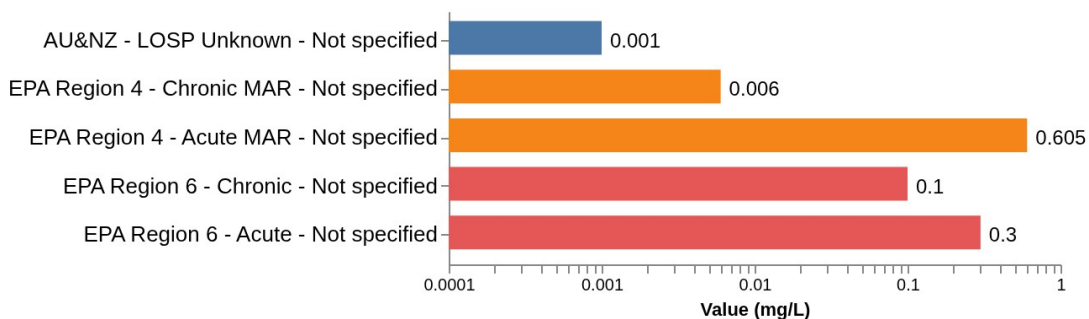


Table 42: Benchmark Values for Bis(diethylthiocarbamyl)disulfide in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
97-77-8	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.001	82, 83

Benchmark Values for Bis(diethylthiocarbamyl)disulfide in Surface Water (Marine)

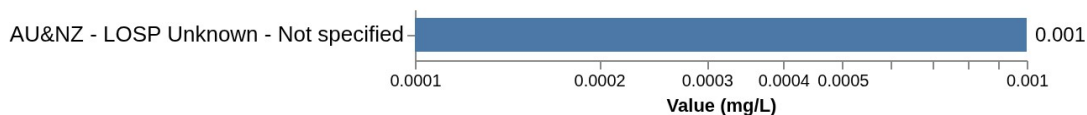


Table 43: Benchmark Values for Bis(dimethylthiocarbamyl)sulfide in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
97-74-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.01	82, 83

Benchmark Values for Bis(dimethylthiocarbamyl)sulfide in Surface Water (Marine)



Table 44: Benchmark Values for Bisphenol A in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
80-05-7	ECC Canada	Marine LTC	Not specified	0.0009	

Benchmark Values for Bisphenol A in Surface Water (Marine)

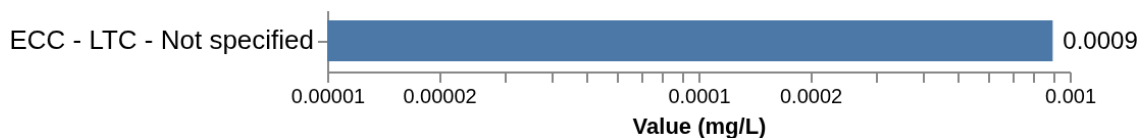


Table 45: Benchmark Values for Boron And Borates Only in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-42-8	British Columbia	Marine LTC	Not specified	1.2
7440-42-8	EPA Region 3	BTAG – Marine	Not specified	1.0
7440-42-8	EPA Region 4	Chronic Marine	Not specified	1.0

Benchmark Values for Boron And Borates Only in Surface Water (Marine)

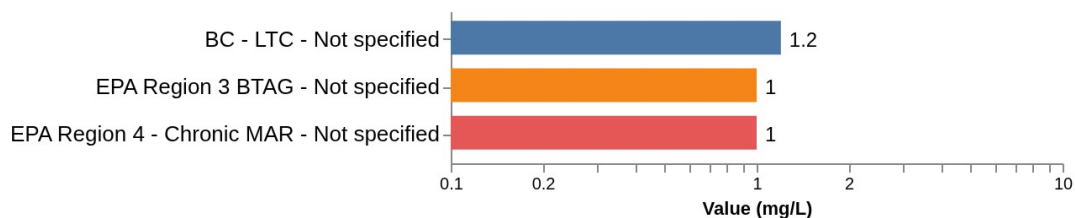


Table 46: Benchmark Values for BP 1100X in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
39403-84-4	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.025	83

Benchmark Values for BP 1100X in Surface Water (Marine)

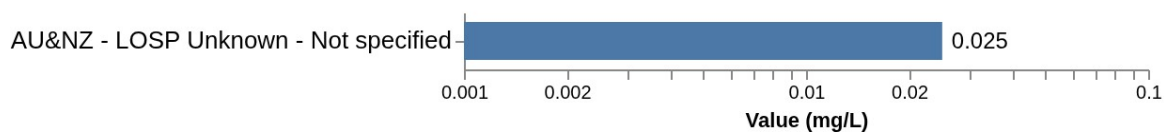


Table 47: Benchmark Values for Bromate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
15541-45-4	Florida	SWQS for Fish Consumption in Marine water	Not specified	100.0

Benchmark Values for Bromate in Surface Water (Marine)

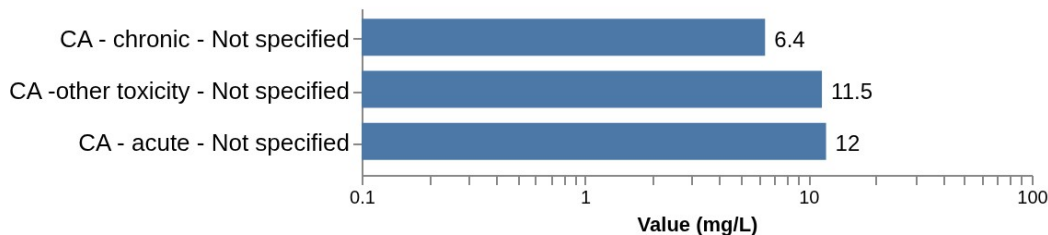


Table 48: Benchmark Values for Bromine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7726-95-6	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.1

Benchmark Values for Bromine in Surface Water (Marine)**Table 49: Benchmark Values for Bromochloromethane in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
74-97-5	California	Saltwater chronic	Not specified	6.4
74-97-5	California	Saltwater other toxicity	Not specified	11.5
74-97-5	California	Saltwater acute	Not specified	12.0

Benchmark Values for Bromochloromethane in Surface Water (Marine)**Table 50: Benchmark Values for Bromodichloromethane in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
75-27-4	California	Saltwater chronic	Not specified	6.400
75-27-4	California	Saltwater other toxicity	Not specified	11.500
75-27-4	California	Saltwater acute	Not specified	12.000
75-27-4	EPA Region 4	Chronic Marine	Not specified	3.510
75-27-4	EPA Region 4	Acute Marine	Not specified	14.567
75-27-4	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.022

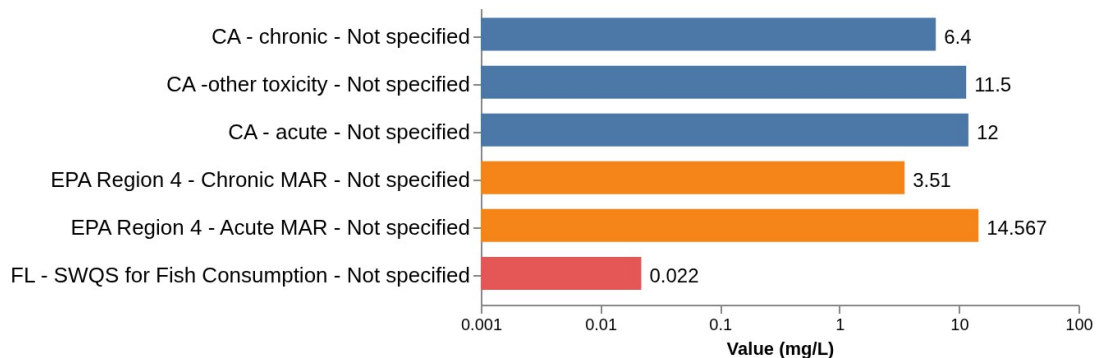
Benchmark Values for Bromodichloromethane in Surface Water (Marine)

Table 51: Benchmark Values for Bromodiphenyl Ether, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
101-55-3	EPA Region 4	Chronic Marine	Not specified	0.002
101-55-3	EPA Region 4	Acute Marine	Not specified	0.012

Benchmark Values for Bromodiphenyl Ether, p- in Surface Water (Marine)

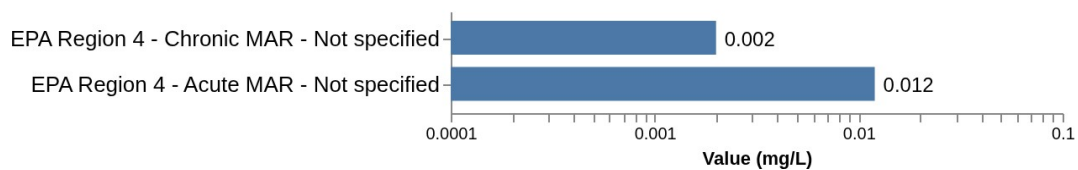


Table 52: Benchmark Values for Bromoform in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-25-2	California	Saltwater chronic	Not specified	6.40
75-25-2	California	Saltwater other toxicity	Not specified	11.50
75-25-2	California	Saltwater acute	Not specified	12.00
75-25-2	EPA Region 3	BTAG – Marine	Not specified	0.64
75-25-2	EPA Region 4	Chronic Marine	Not specified	0.36
75-25-2	EPA Region 4	Acute Marine	Not specified	1.79
75-25-2	EPA Region 6	Saltwater Chronic	Not specified	1.22
75-25-2	EPA Region 6	Saltwater Acute	Not specified	7.32
75-25-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.36

Benchmark Values for Bromoform in Surface Water (Marine)

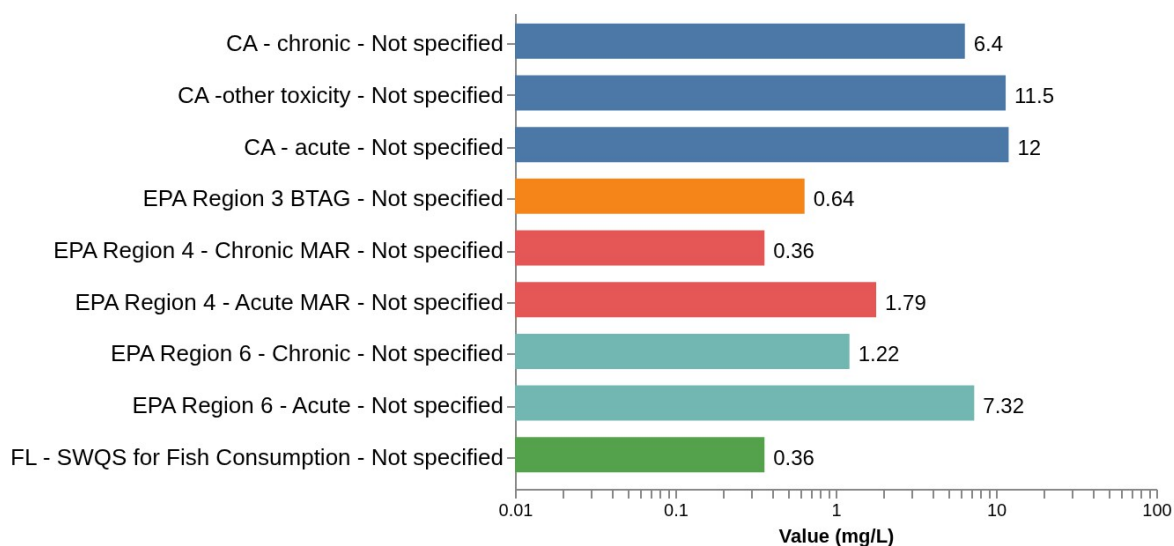


Table 53: Benchmark Values for Bromomethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-83-9	California	Saltwater chronic	Not specified	6.400
74-83-9	California	Saltwater other toxicity	Not specified	11.500
74-83-9	California	Saltwater acute	Not specified	12.000
74-83-9	EPA Region 3	BTAG – Marine	Not specified	0.120
74-83-9	EPA Region 4	Chronic Marine	Not specified	0.265
74-83-9	EPA Region 4	Acute Marine	Not specified	1.100
74-83-9	EPA Region 6	Saltwater Chronic	Not specified	0.600
74-83-9	EPA Region 6	Saltwater Acute	Not specified	3.600

Benchmark Values for Bromomethane in Surface Water (Marine)

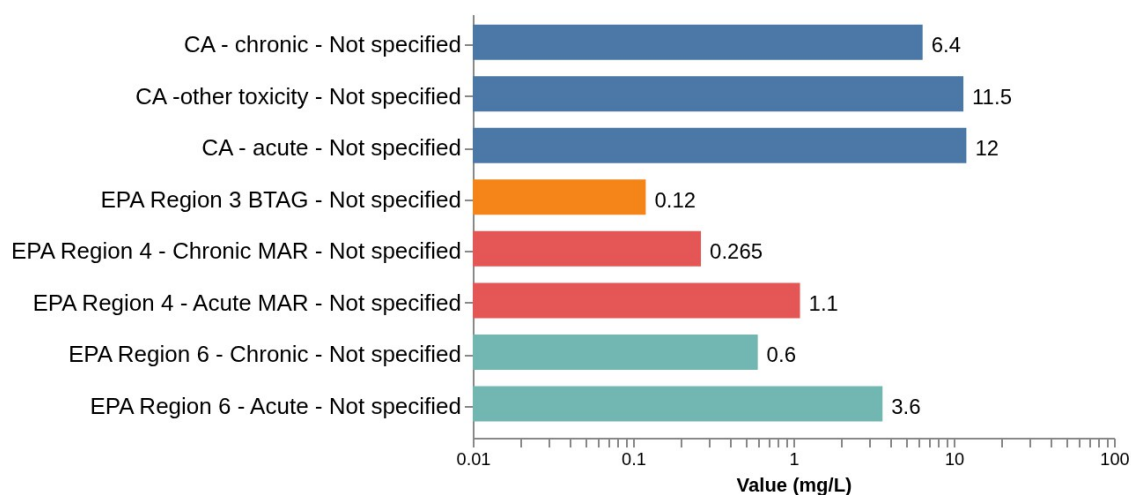


Table 54: Benchmark Values for Butyl Benzyl Phthalate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
85-68-7	California	Saltwater other toxicity	Not specified	0.0034
85-68-7	California	Saltwater acute	Not specified	2.9440
85-68-7	EPA Region 3	BTAG – Marine	Not specified	0.0294
85-68-7	EPA Region 4	Chronic Marine	Not specified	0.0180
85-68-7	EPA Region 4	Acute Marine	Not specified	0.0380
85-68-7	EPA Region 6	Saltwater Chronic	Not specified	0.1470
85-68-7	EPA Region 6	Saltwater Acute	Not specified	0.8830

Benchmark Values for Butyl Benzyl Phthalate in Surface Water (Marine)

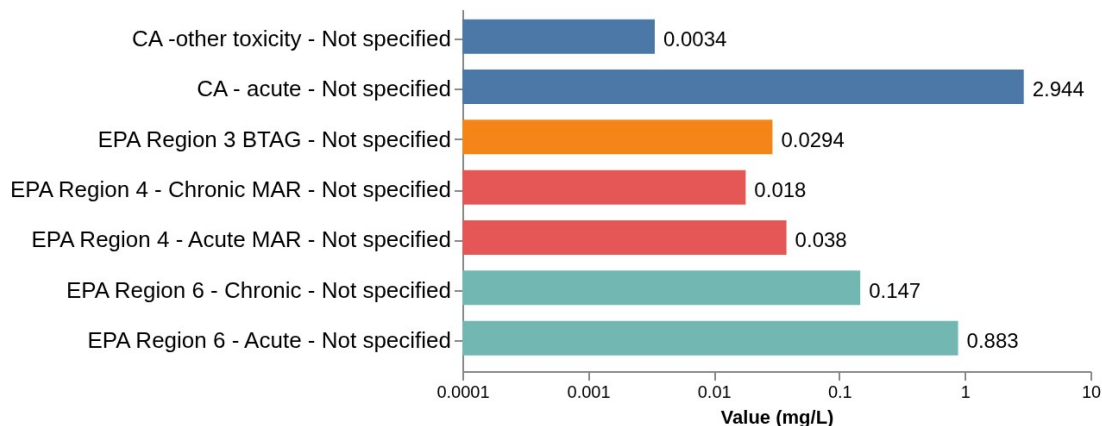


Table 55: Benchmark Values for Butylphthalyl Butylglycolate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
85-70-1	California	Saltwater other toxicity	Not specified	0.0034
85-70-1	California	Saltwater acute	Not specified	2.9440

Benchmark Values for Butylphthalyl Butylglycolate in Surface Water (Marine)

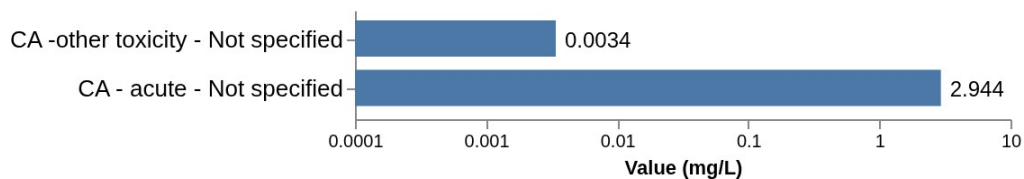


Table 56: Benchmark Values for Cadmium (Diet) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-43-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.00070	85, 89, 97
7440-43-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.00550	85, 90, 97
7440-43-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.01400	85, 94, 97
7440-43-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.03600	85, 92, 97
7440-43-9	California	Marine 6-month median	Not specified	0.00100	215
7440-43-9	California	Marine daily max	Not specified	0.00400	218
7440-43-9	California	Saltwater CCC, 4-day average	Not specified	0.00790	214
7440-43-9	California	Saltwater CCC, 4-day average	Not specified	0.00930	214, 216
7440-43-9	California	Marine instantaneous max	Not specified	0.01000	218
7440-43-9	California	Saltwater CMC, 1-hour average	Not specified	0.03300	214
7440-43-9	California	Saltwater CMC, 1-hour average	Not specified	0.04200	214, 216
7440-43-9	Canada	Marine Long Term	Not specified	0.00012	
7440-43-9	Delaware	Marine Chronic Criterion	Not specified	0.00790	236
7440-43-9	Delaware	Marine Acute Criterion	Not specified	0.03300	236
7440-43-9	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.00790	
7440-43-9	EPA NRWQC	Saltwater CMC Acute	Not specified	0.03300	
7440-43-9	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.00930	
7440-43-9	EPA Region 3	BTAG – Marine	Not specified	0.00012	
7440-43-9	EPA Region 4	Chronic Marine	Not specified	0.00790	1, 2
7440-43-9	EPA Region 4	Acute Marine	Not specified	0.03300	1, 2
7440-43-9	EPA Region 6	Saltwater Chronic	Not specified	0.00875	21
7440-43-9	EPA Region 6	Saltwater Acute	Not specified	0.04000	21
7440-43-9	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.00880	
7440-43-9	New Jersey	Marine Chronic	Not specified	0.00880	199, 200
7440-43-9	New Jersey	Marine Acute	Not specified	0.04000	199, 200

Benchmark Values for Cadmium (Diet) in Surface Water (Marine)

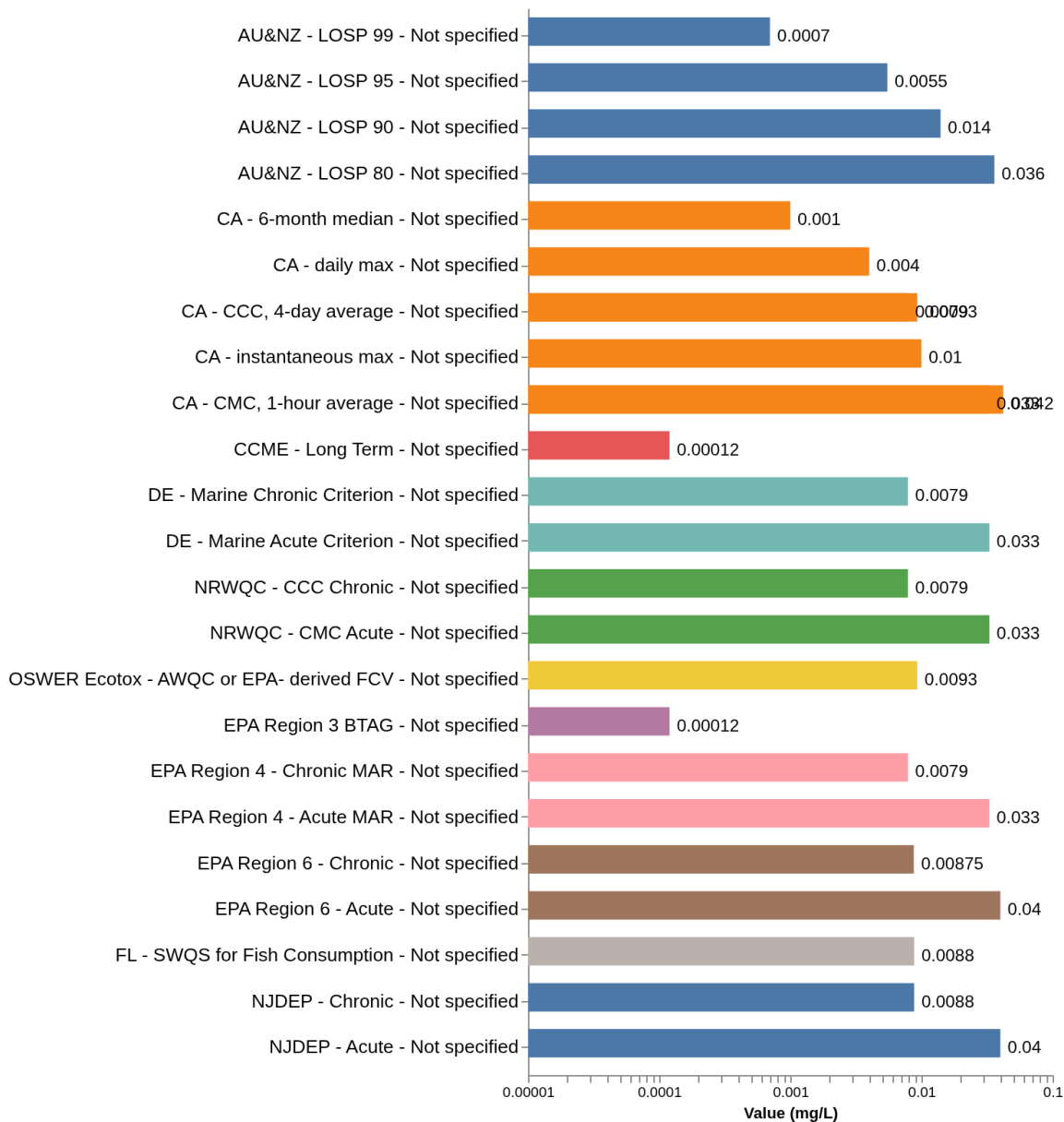


Table 57: Benchmark Values for Captan in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
133-06-2	EPA Region 4	Chronic Marine	Not specified	0.018
133-06-2	EPA Region 4	Acute Marine	Not specified	0.030

Benchmark Values for Captan in Surface Water (Marine)

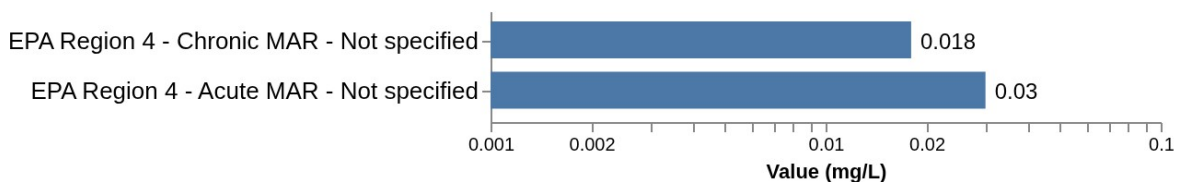


Table 58: Benchmark Values for Carbaryl in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
63-25-2	California	Saltwater CCC, 4-day average	Not specified	0.00081
63-25-2	California	Saltwater CMC, 1-hour average	Not specified	0.00081
63-25-2	Canada	Marine Long Term	Not specified	0.00029
63-25-2	Canada	Marine Short Term	Not specified	0.00570
63-25-2	Delaware	Marine Acute Criterion	Not specified	0.00160
63-25-2	EPA NRWQC	Saltwater CMC Acute	Not specified	0.00160
63-25-2	EPA Region 3	BTAG – Marine	Not specified	0.00032
63-25-2	EPA Region 4	Chronic Marine	Not specified	0.00029
63-25-2	EPA Region 4	Acute Marine	Not specified	0.00160
63-25-2	EPA Region 6	Saltwater Chronic	Not specified	0.00016
63-25-2	EPA Region 6	Saltwater Acute	Not specified	0.00160

Benchmark Values for Carbaryl in Surface Water (Marine)

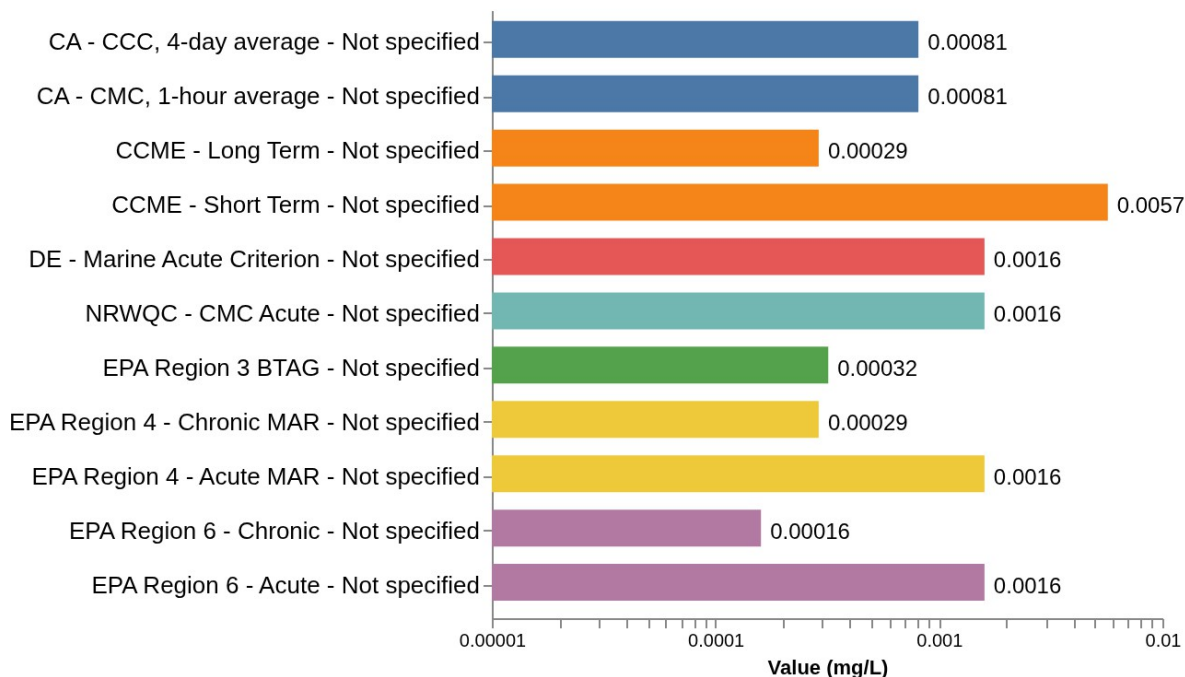


Table 59: Benchmark Values for Carbazole in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-74-8	EPA Region 4	Chronic Marine	Not specified	0.112
86-74-8	EPA Region 4	Acute Marine	Not specified	0.465

Benchmark Values for Carbazole in Surface Water (Marine)

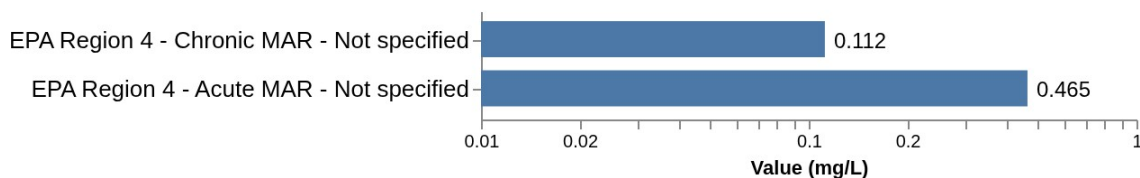


Table 60: Benchmark Values for Carbofuran in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1563-66-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.00006	82, 88
1563-66-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.00120	82, 83
1563-66-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.00400	82, 83
1563-66-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.01500	82, 83
1563-66-2	EPA Region 4	Chronic Marine	Not specified	0.00029	
1563-66-2	EPA Region 4	Acute Marine	Not specified	0.00120	

Benchmark Values for Carbofuran in Surface Water (Marine)

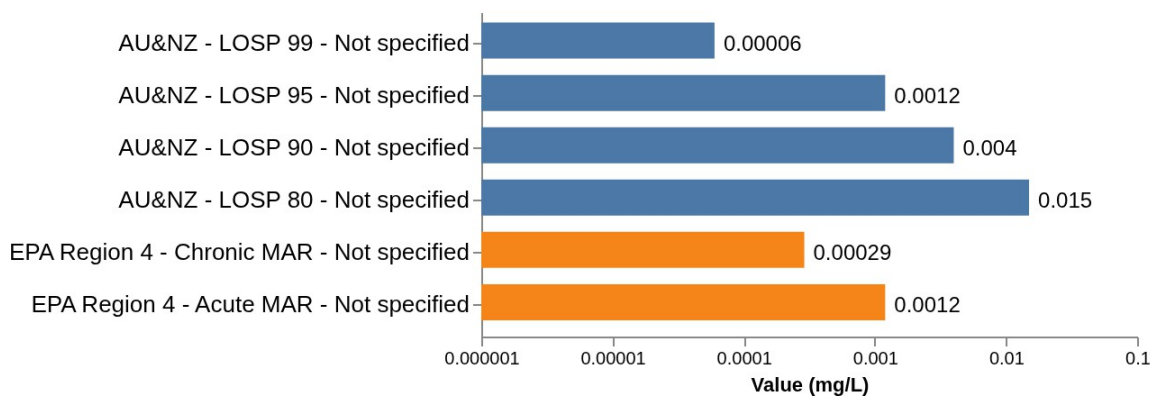
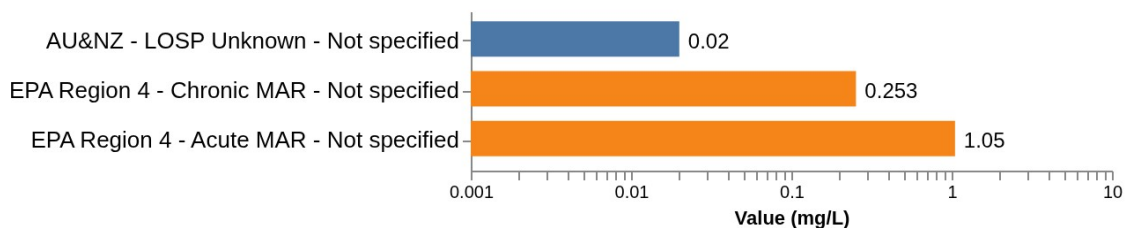


Table 61: Benchmark Values for Carbon Disulfide in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-15-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.020	82, 83
75-15-0	EPA Region 4	Chronic Marine	Not specified	0.253	
75-15-0	EPA Region 4	Acute Marine	Not specified	1.050	

Benchmark Values for Carbon Disulfide in Surface Water (Marine)**Table 62: Benchmark Values for Carbon Tetrachloride in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-23-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.15000	83
56-23-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.24000	83, 89
56-23-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.32000	83
56-23-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.46000	83
56-23-5	California	Saltwater chronic	Not specified	6.40000	
56-23-5	California	Saltwater other toxicity	Not specified	11.50000	
56-23-5	California	Saltwater acute	Not specified	50.00000	
56-23-5	EPA Region 3	BTAG – Marine	Not specified	1.50000	
56-23-5	EPA Region 4	Chronic Marine	Not specified	0.00440	
56-23-5	EPA Region 4	Acute Marine	Not specified	15.00000	
56-23-5	EPA Region 6	Saltwater Chronic	Not specified	5.00000	
56-23-5	EPA Region 6	Saltwater Acute	Not specified	15.00000	
56-23-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.00442	

Benchmark Values for Carbon Tetrachloride in Surface Water (Marine)

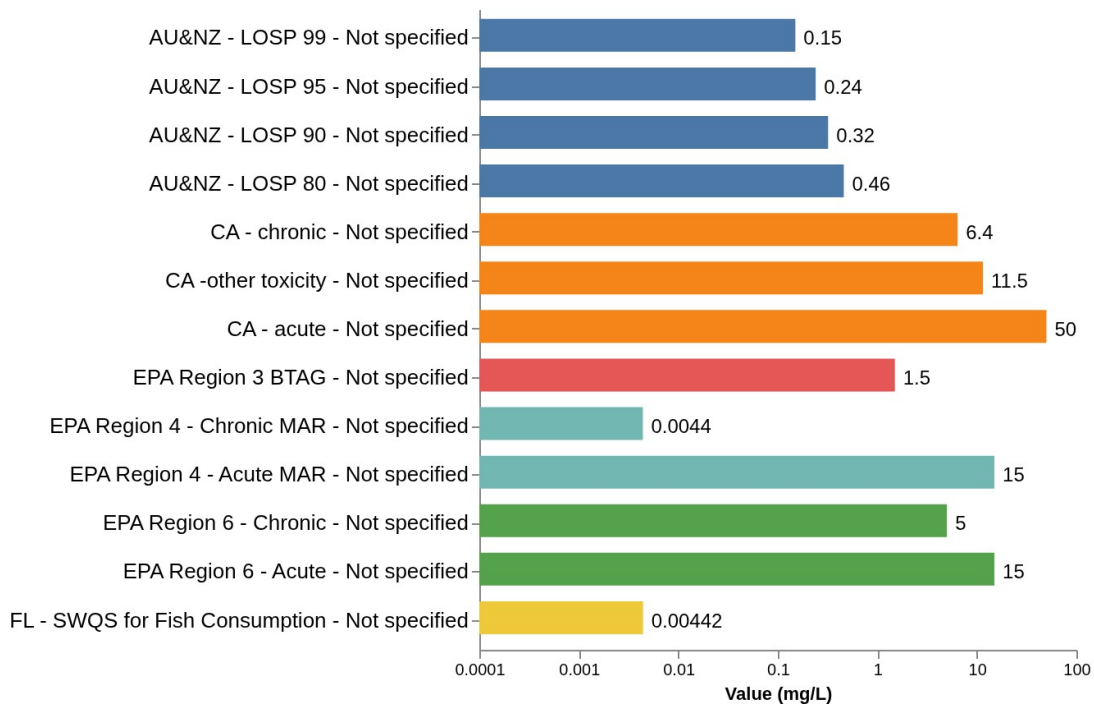


Table 63: Benchmark Values for Catechol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-80-9	California	Marine 6-month median	Not specified	0.03	218
120-80-9	California	Marine daily max	Not specified	0.12	218
120-80-9	California	Marine instantaneous max	Not specified	0.30	218

Benchmark Values for Catechol in Surface Water (Marine)

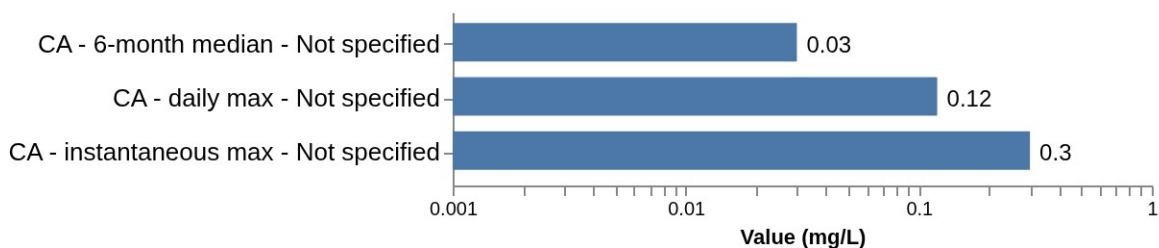


Table 64: Benchmark Values for Chlorate (ClO₃) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
14866-68-3	British Columbia	Marine LTC	Not specified	0.005

Benchmark Values for Chlorate (ClO₃) in Surface Water (Marine)

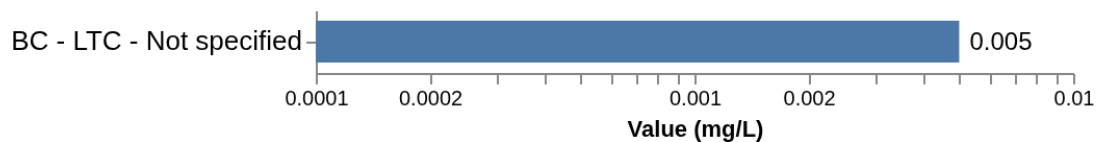


Table 65: Benchmark Values for Chlordane (technical mixture) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
12789-03-6	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.000001	83, 101
12789-03-6	EPA Region 6	Saltwater Chronic	Not specified	0.000004	
12789-03-6	EPA Region 6	Saltwater Acute	Not specified	0.000090	

Benchmark Values for Chlordane (technical mixture) in Surface Water (Marine)

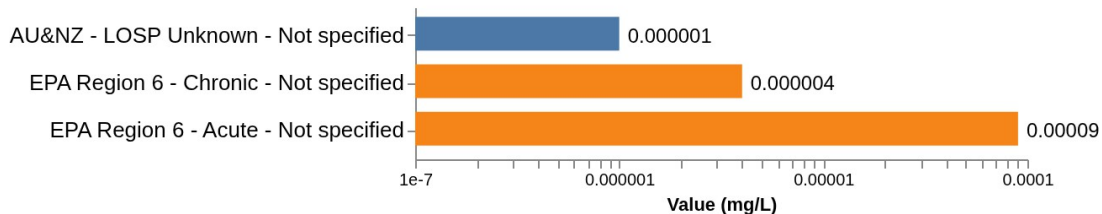


Table 66: Benchmark Values for Chlordane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57-74-9	California	Saltwater CCC, 4-day average	Not specified	4.000000e-06	
57-74-9	California	Saltwater instantaneous max	Not specified	9.000000e-05	
57-74-9	Delaware	Marine Chronic Criterion	Not specified	4.000000e-06	
57-74-9	Delaware	Marine Acute Criterion	Not specified	9.000000e-05	
57-74-9	EPA NRWQC	Saltwater CCC Chronic	Not specified	4.000000e-06	
57-74-9	EPA NRWQC	Saltwater CMC Acute	Not specified	9.000000e-05	
57-74-9	EPA Region 4	Chronic Marine	Not specified	4.000000e-06	7
57-74-9	EPA Region 4	Acute Marine	Not specified	9.000000e-05	7
57-74-9	EPA Region 6	Saltwater Chronic	Not specified	4.000000e-06	
57-74-9	EPA Region 6	Saltwater Acute	Not specified	9.000000e-05	
57-74-9	Florida	SWQS for Fish Consumption in Marine water	Not specified	5.900000e-07	
57-74-9	New Jersey	Marine Chronic	Not specified	4.000000e-06	
57-74-9	New Jersey	Marine Acute	Not specified	9.000000e-05	

Benchmark Values for Chlordane in Surface Water (Marine)

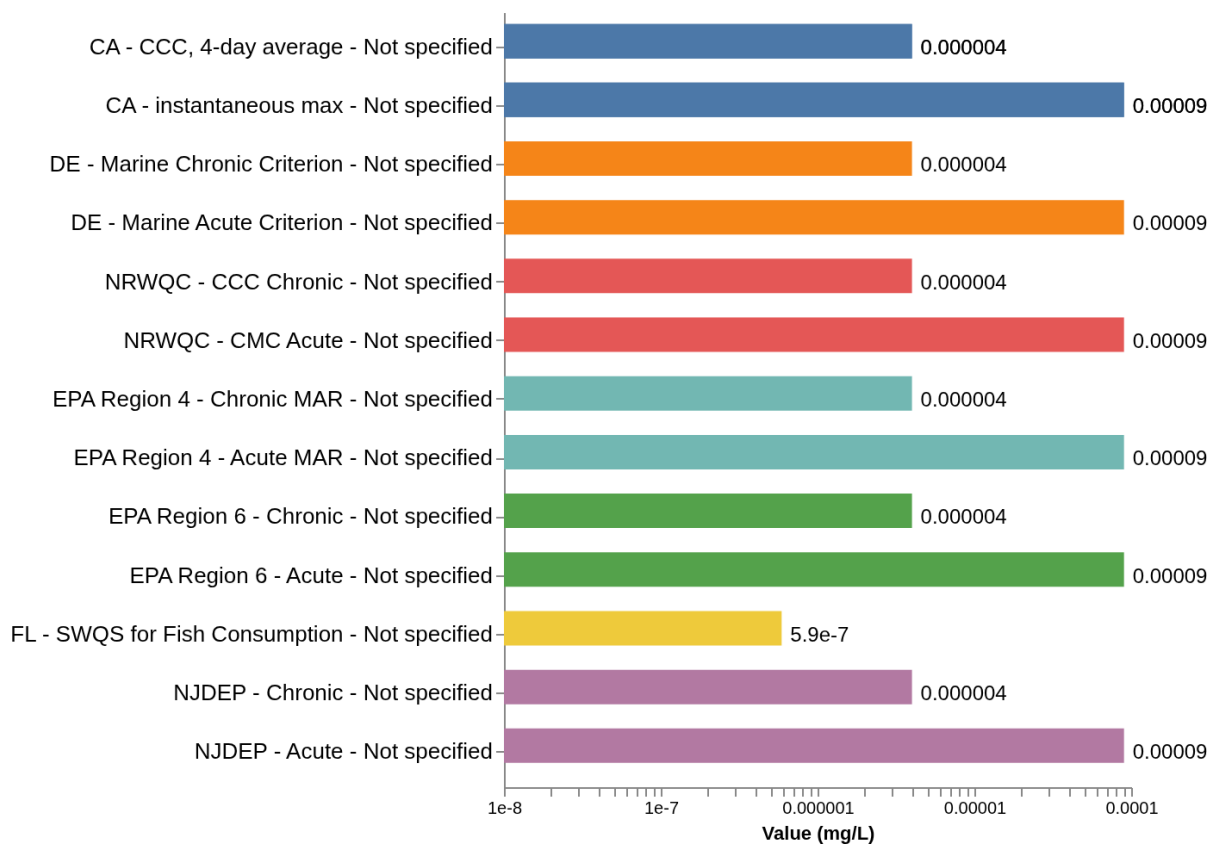


Table 67: Benchmark Values for Chloride in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16887-00-6	British Columbia	Marine LTC	Not specified		137

Table 68: Benchmark Values for Chlorine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7782-50-5	British Columbia	Marine LTC	Not specified	0.0020	136
7782-50-5	British Columbia	Marine STA	Not specified	0.0400	
7782-50-5	California	Marine 6-month median	Not specified	0.0020	223
7782-50-5	California	Saltwater CCC, 4-day average	Not specified	0.0075	
7782-50-5	California	Marine daily max	Not specified	0.0080	224
7782-50-5	California	Saltwater CMC, 1-hour average	Not specified	0.0130	
7782-50-5	California	Marine instantaneous max	Not specified	0.0600	224
7782-50-5	Canada	Marine Long Term	Not specified	0.0005	67
7782-50-5	Delaware	Marine Chronic Criterion	Not specified	0.0075	
7782-50-5	Delaware	Marine Acute Criterion	Not specified	0.0130	
7782-50-5	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0075	
7782-50-5	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0130	
7782-50-5	EPA Region 3	BTAG – Marine	Not specified	0.0075	
7782-50-5	EPA Region 4	Chronic Marine	Not specified	0.0075	
7782-50-5	EPA Region 4	Acute Marine	Not specified	0.0130	
7782-50-5	EPA Region 6	Saltwater Chronic	Not specified	0.0075	
7782-50-5	EPA Region 6	Saltwater Acute	Not specified	0.0130	
7782-50-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0100	
7782-50-5	New Jersey	Marine Chronic	Not specified	0.0075	
7782-50-5	New Jersey	Marine Acute	Not specified	0.0130	

Benchmark Values for Chlorine in Surface Water (Marine)

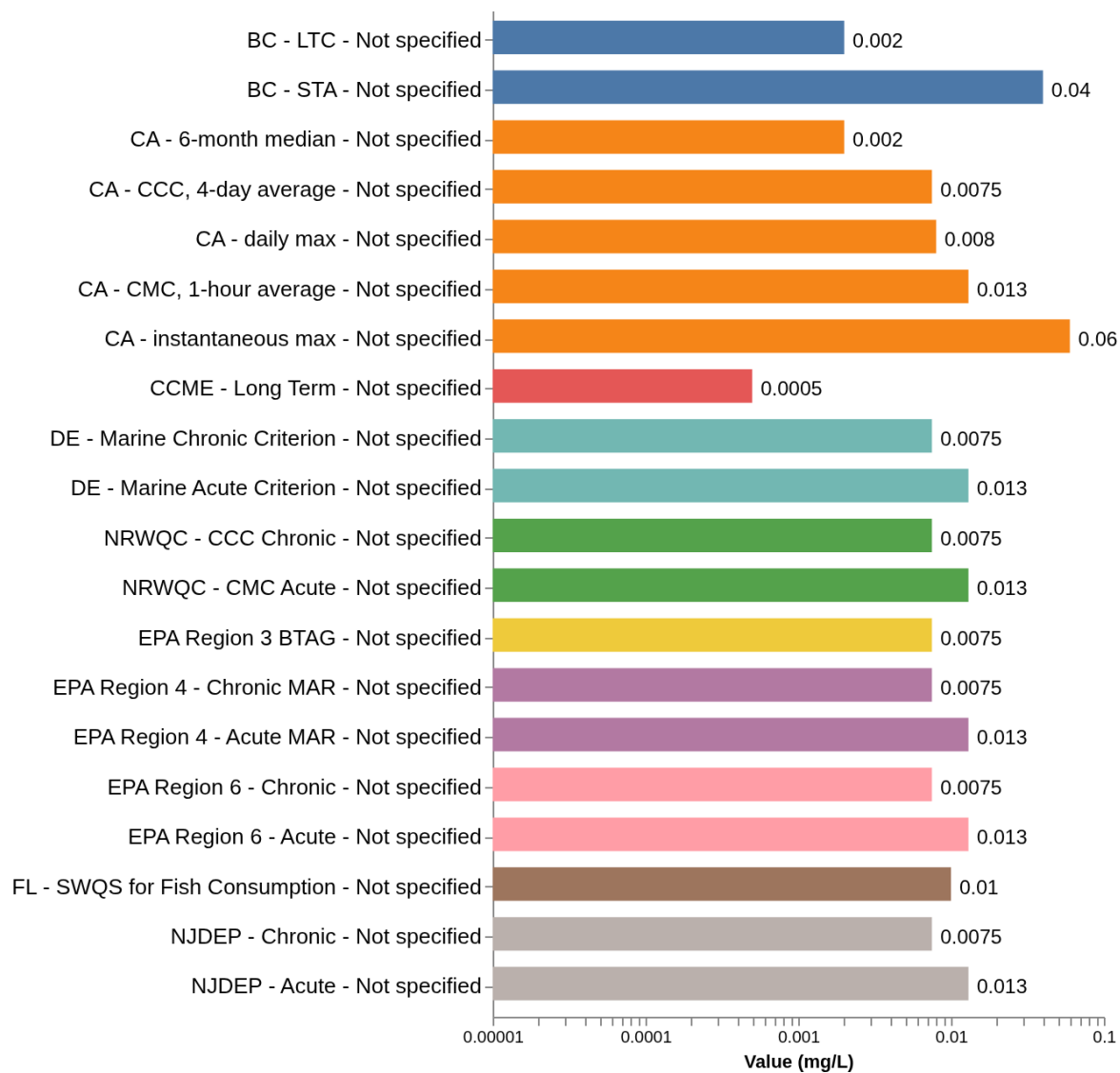


Table 69: Benchmark Values for Chloro-2-methylphenol, 4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1570-64-5	California	Marine 6-month median	Not specified	0.001	219
1570-64-5	California	Marine daily max	Not specified	0.004	219
1570-64-5	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Chloro-2-methylphenol, 4- in Surface Water (Marine)

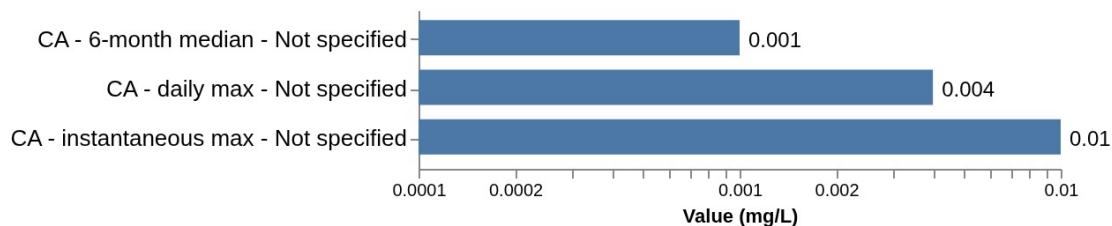


Table 70: Benchmark Values for Chloroaniline, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
106-47-8	EPA Region 4	Chronic Marine	Not specified	0.0008
106-47-8	EPA Region 4	Acute Marine	Not specified	0.0240

Benchmark Values for Chloroaniline, p- in Surface Water (Marine)

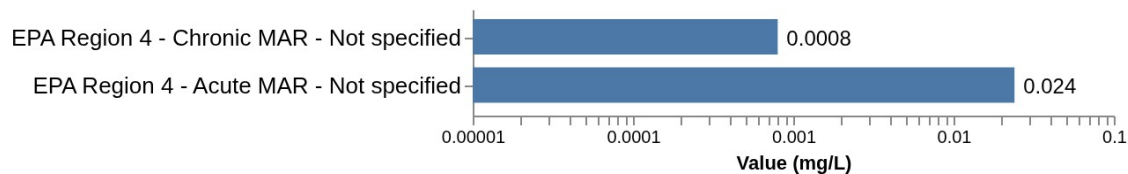


Table 71: Benchmark Values for Chlorobenzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-90-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.015	83
108-90-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.055	83, 89
108-90-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.100	83
108-90-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.190	83
108-90-7	California	Saltwater chronic	Not specified	0.129	
108-90-7	California	Saltwater acute	Not specified	0.160	
108-90-7	Canada	Marine Long Term	Not specified	0.025	
108-90-7	EPA Region 3	BTAG – Marine	Not specified	0.025	
108-90-7	EPA Region 4	Chronic Marine	Not specified	0.025	
108-90-7	EPA Region 4	Acute Marine	Not specified	1.360	
108-90-7	EPA Region 6	Saltwater Chronic	Not specified	1.000	
108-90-7	EPA Region 6	Saltwater Acute	Not specified	3.000	

Benchmark Values for Chlorobenzene in Surface Water (Marine)

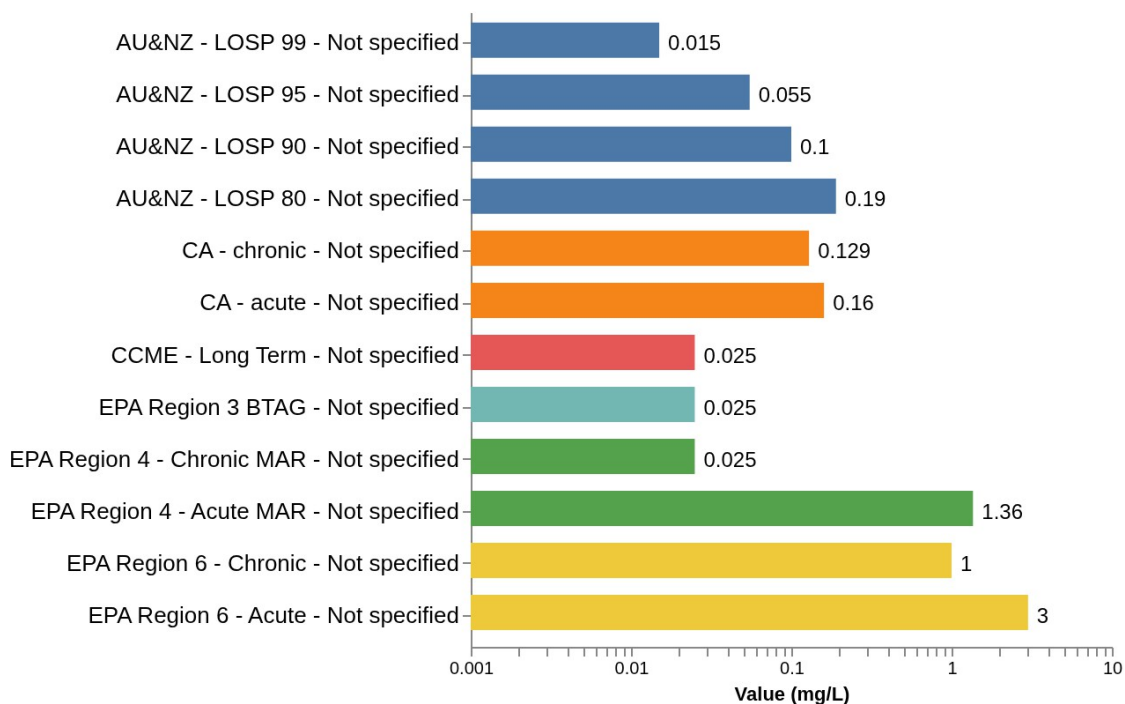


Table 72: Benchmark Values for Chlorodibromoethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
73506-94-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.034

Benchmark Values for Chlorodibromoethane in Surface Water (Marine)

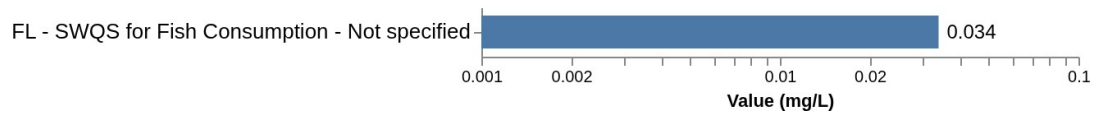


Table 73: Benchmark Values for Chloroform in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-66-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.3700	83, 89
67-66-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.7700	83, 92
67-66-3	Australia and New Zealand	Marine LOSP 90	Not specified	1.1000	83, 94
67-66-3	Australia and New Zealand	Marine LOSP 80	Not specified	1.9000	83, 94
67-66-3	California	Saltwater chronic	Not specified	6.4000	
67-66-3	California	Saltwater other toxicity	Not specified	11.5000	
67-66-3	California	Saltwater acute	Not specified	12.0000	
67-66-3	EPA Region 3	BTAG – Marine	Not specified	0.8150	
67-66-3	EPA Region 4	Chronic Marine	Not specified	0.4710	
67-66-3	EPA Region 4	Acute Marine	Not specified	8.1500	
67-66-3	EPA Region 6	Saltwater Chronic	Not specified	2.8000	
67-66-3	EPA Region 6	Saltwater Acute	Not specified	8.4000	
67-66-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.4708	

Benchmark Values for Chloroform in Surface Water (Marine)

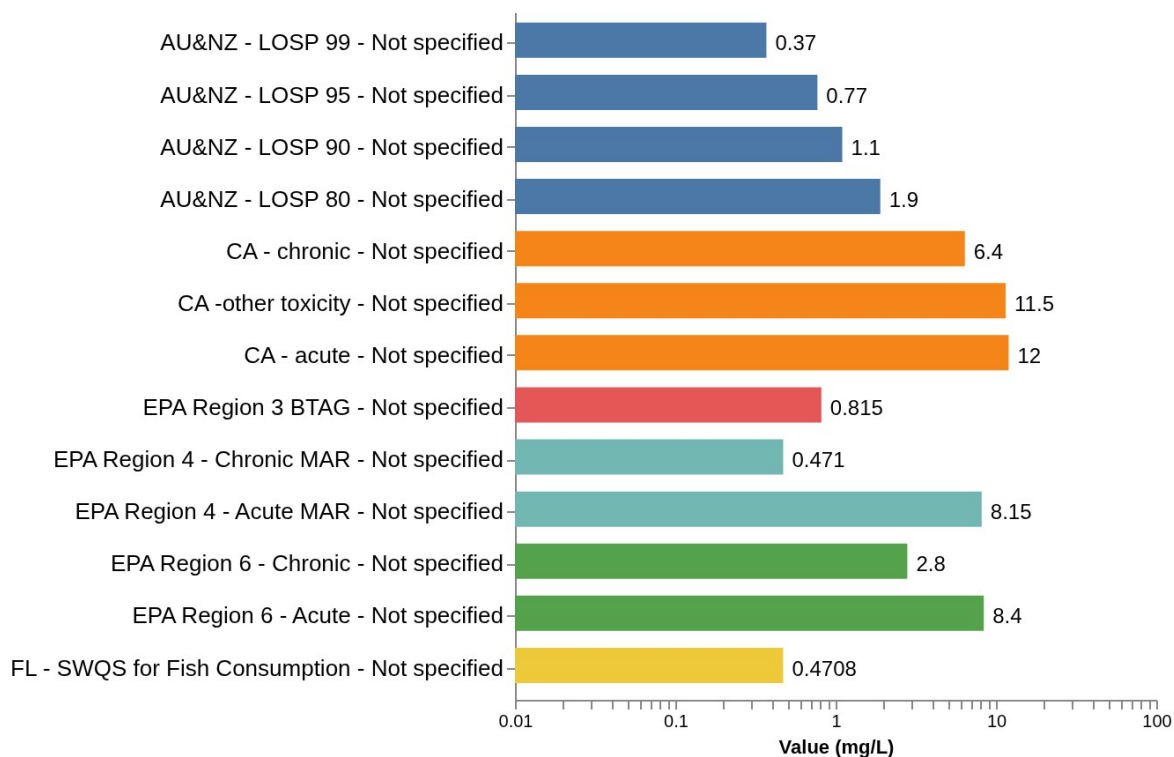


Table 74: Benchmark Values for Chloromethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-87-3	California	Saltwater chronic	Not specified	6.4000
74-87-3	California	Saltwater other toxicity	Not specified	11.5000
74-87-3	California	Saltwater acute	Not specified	12.0000
74-87-3	EPA Region 3	BTAG – Marine	Not specified	2.7000
74-87-3	EPA Region 6	Saltwater Chronic	Not specified	13.5000
74-87-3	EPA Region 6	Saltwater Acute	Not specified	81.0000
74-87-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.4708

Benchmark Values for Chloromethane in Surface Water (Marine)

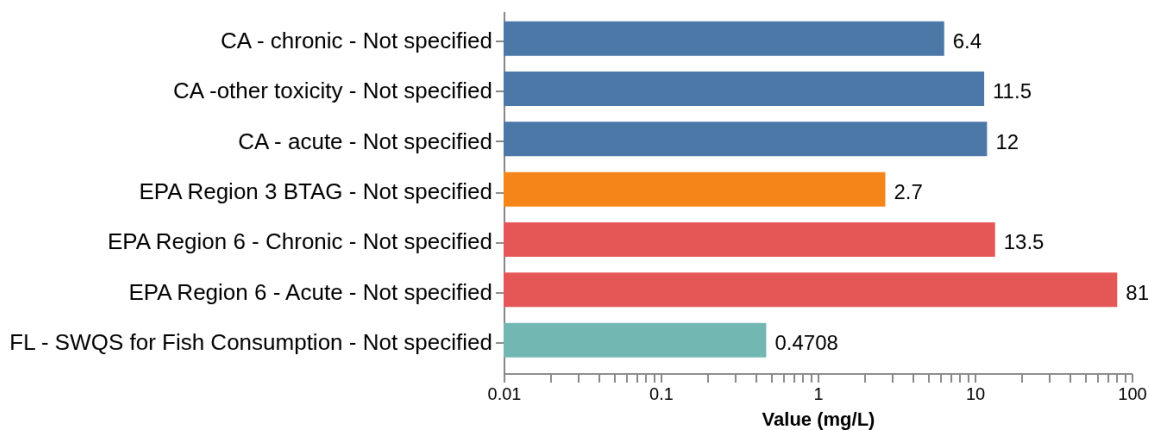


Table 75: Benchmark Values for Chloronaphthalene, Beta- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-58-7	California	Saltwater acute	Not specified	0.0075

Benchmark Values for Chloronaphthalene, Beta- in Surface Water (Marine)

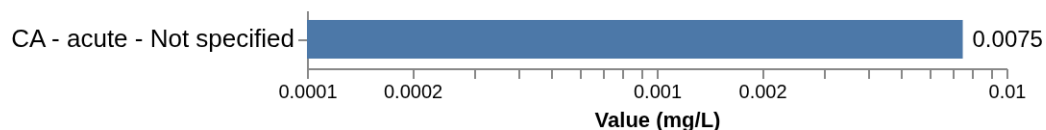


Table 76: Benchmark Values for Chlorophenol, 2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-57-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.340	82, 88, 99
95-57-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.490	82, 83, 99
95-57-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.630	82, 83, 99
95-57-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.870	82, 83, 99
95-57-8	California	Marine 6-month median	Not specified	0.001	219
95-57-8	California	Marine daily max	Not specified	0.004	219
95-57-8	California	Marine instantaneous max	Not specified	0.010	219
95-57-8	EPA Region 3	BTAG - Marine	Not specified	0.265	
95-57-8	EPA Region 4	Chronic Marine	Not specified	0.400	
95-57-8	EPA Region 4	Acute Marine	Not specified	1.037	
95-57-8	EPA Region 6	Saltwater Chronic	Not specified	0.100	
95-57-8	EPA Region 6	Saltwater Acute	Not specified	0.300	
95-57-8	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.400	

Benchmark Values for Chlorophenol, 2- in Surface Water (Marine)

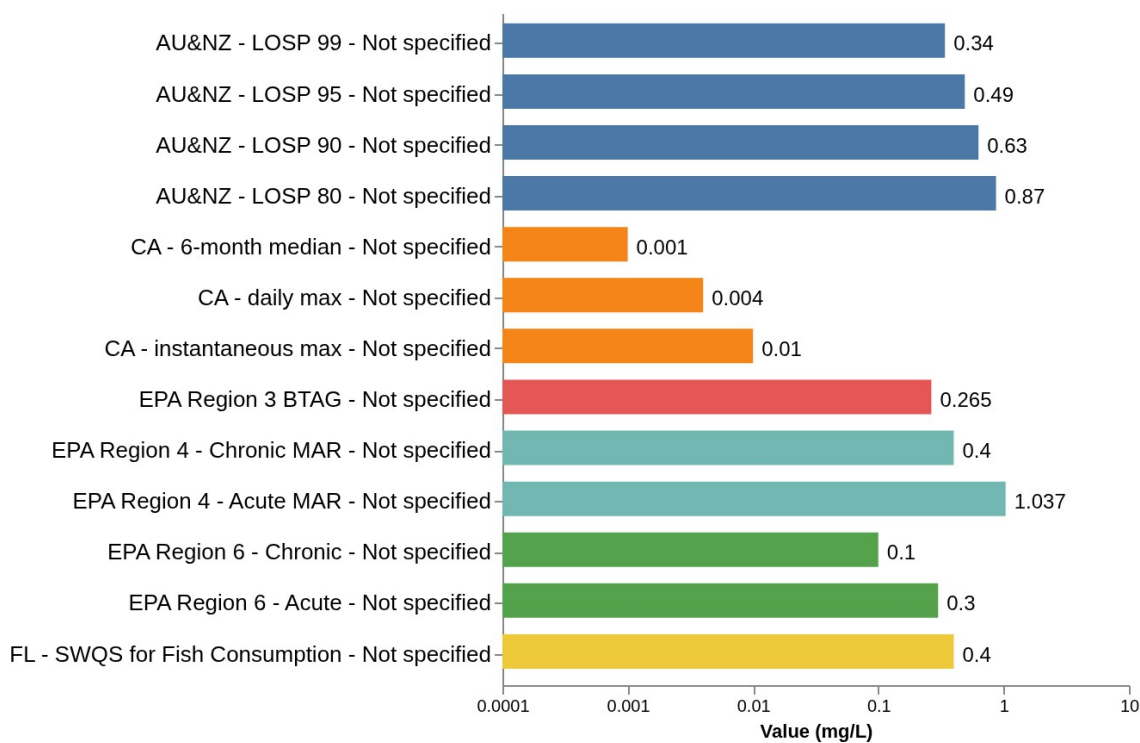


Table 77: Benchmark Values for Chlorophenol, 3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-43-0	California	Marine 6-month median	Not specified	0.001	219
108-43-0	California	Marine daily max	Not specified	0.004	219
108-43-0	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Chlorophenol, 3- in Surface Water (Marine)

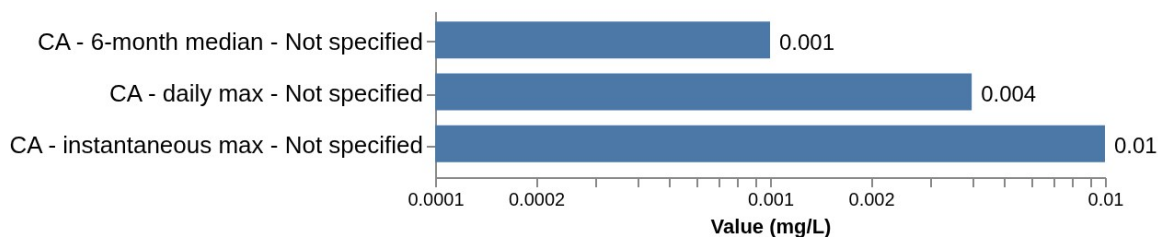


Table 78: Benchmark Values for Chlorophenol, 4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-48-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.160	82, 88, 99
106-48-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.220	82, 83, 99
106-48-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.280	82, 83, 99
106-48-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.360	82, 83, 99
106-48-9	California	Marine 6-month median	Not specified	0.001	219
106-48-9	California	Marine daily max	Not specified	0.004	219
106-48-9	California	Marine instantaneous max	Not specified	0.010	219
106-48-9	California	Saltwater acute	Not specified	29.700	

Benchmark Values for Chlorophenol, 4- in Surface Water (Marine)

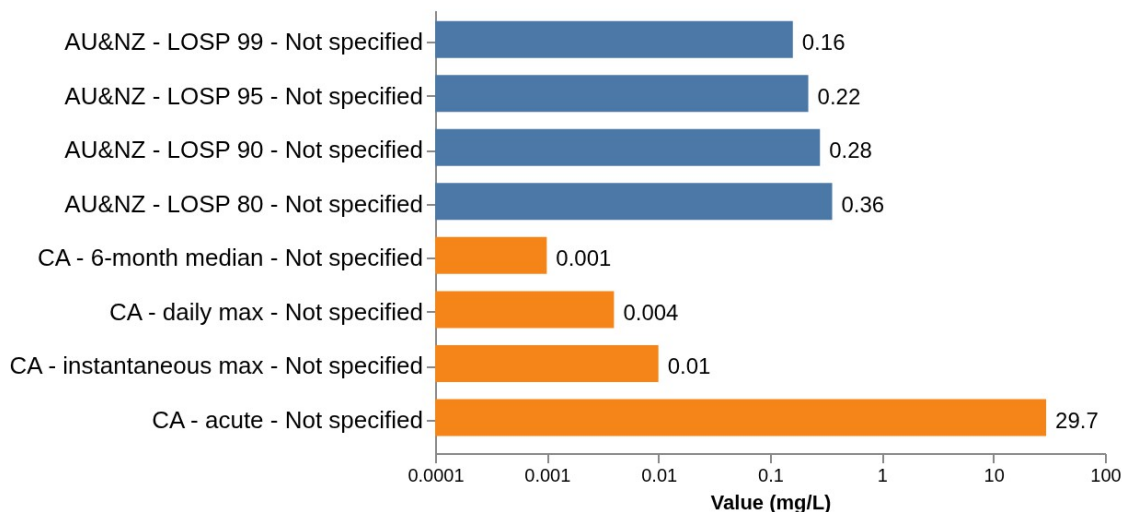


Table 79: Benchmark Values for Chlorophenols (total) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-04-4	California	Marine 6-month median	Not specified	0.001
000000-04-4	California	Marine daily max	Not specified	0.004
000000-04-4	California	Marine instantaneous max	Not specified	0.010

Benchmark Values for Chlorophenols (total) in Surface Water (Marine)

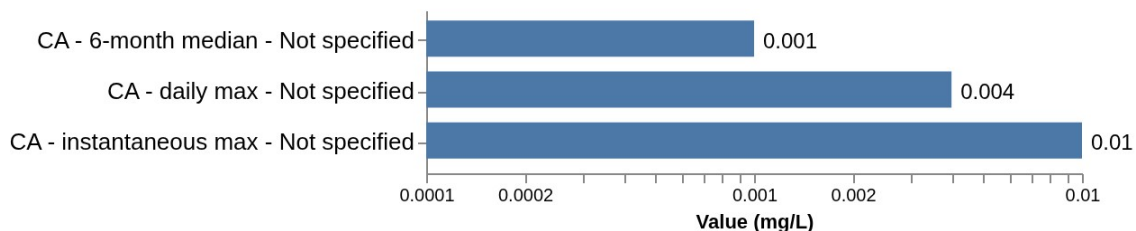


Table 80: Benchmark Values for Chlorothalonil in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
1897-45-6	Canada	Marine Long Term	Not specified	0.00036
1897-45-6	EPA Region 4	Chronic Marine	Not specified	0.00036
1897-45-6	EPA Region 4	Acute Marine	Not specified	0.01600

Benchmark Values for Chlorothalonil in Surface Water (Marine)

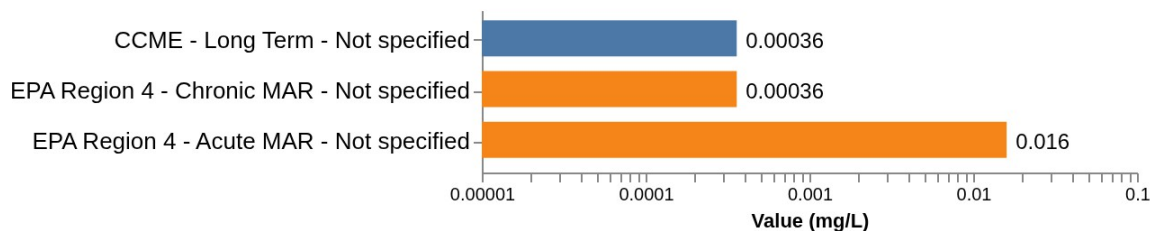


Table 81: Benchmark Values for Chlorpyrifos in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2921-88-2	Australia and New Zealand	Marine LOSP 99	Not specified	5.000000e-07	87, 101
2921-88-2	Australia and New Zealand	Marine LOSP 95	Not specified	9.000000e-06	87, 93, 101
2921-88-2	Australia and New Zealand	Marine LOSP 90	Not specified	4.000000e-05	87, 92, 101
2921-88-2	Australia and New Zealand	Marine LOSP 80	Not specified	3.000000e-04	87, 92, 101
2921-88-2	California	Saltwater CCC, 4-day average	Not specified	9.000000e-06	
2921-88-2	California	Saltwater CMC, 1-hour average	Not specified	2.000000e-05	
2921-88-2	Canada	Marine Long Term	Not specified	2.000000e-06	
2921-88-2	Delaware	Marine Chronic Criterion	Not specified	5.600000e-06	
2921-88-2	Delaware	Marine Acute Criterion	Not specified	1.100000e-05	
2921-88-2	EPA NRWQC	Saltwater CCC Chronic	Not specified	5.600000e-06	
2921-88-2	EPA NRWQC	Saltwater CMC Acute	Not specified	1.100000e-05	
2921-88-2	EPA Region 3	BTAG – Marine	Not specified	5.600000e-06	
2921-88-2	EPA Region 4	Chronic Marine	Not specified	6.000000e-06	
2921-88-2	EPA Region 4	Acute Marine	Not specified	1.100000e-05	
2921-88-2	EPA Region 6	Saltwater Chronic	Not specified	6.000000e-06	
2921-88-2	EPA Region 6	Saltwater Acute	Not specified	1.100000e-05	
2921-88-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	5.600000e-06	
2921-88-2	New Jersey	Marine Chronic	Not specified	5.600000e-06	
2921-88-2	New Jersey	Marine Acute	Not specified	1.100000e-05	

Benchmark Values for Chlorpyrifos in Surface Water (Marine)

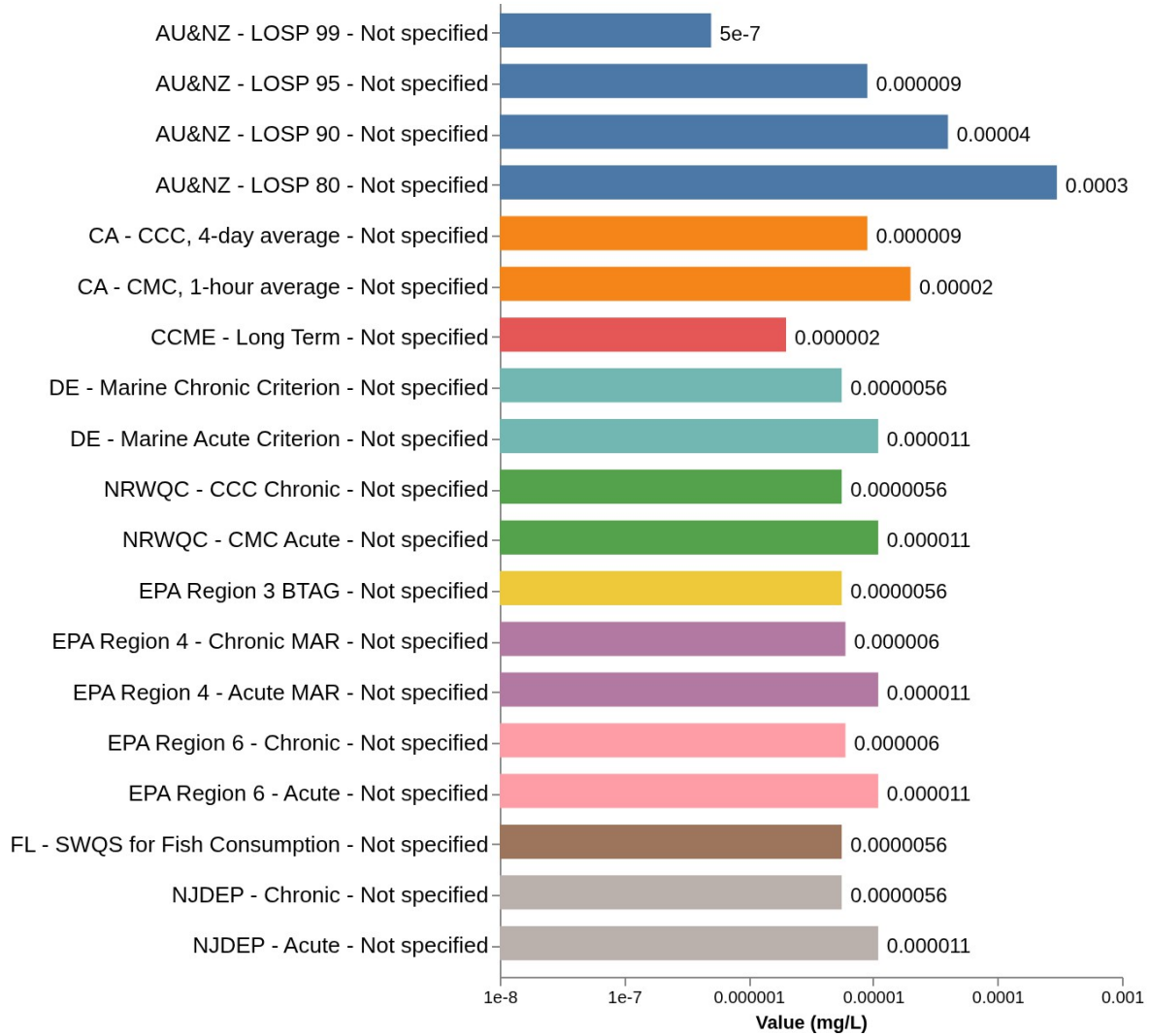


Table 82: Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16065-83-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.0077	87
16065-83-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.0270	87, 89
16065-83-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.0490	87
16065-83-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.0910	87
16065-83-1	California	Saltwater acute	Not specified	10.3000	
16065-83-1	Canada	Marine Long Term	Not specified	0.0560	
16065-83-1	EPA Region 3	BTAG – Marine	Not specified	0.0560	
16065-83-1	EPA Region 4	Chronic Marine	Not specified	0.1030	1, 2
16065-83-1	EPA Region 4	Acute Marine	Not specified	0.5150	1, 2
16065-83-1	Florida	Marine water Contaminant Cleanup	Not specified	0.5200	

Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water (Marine)

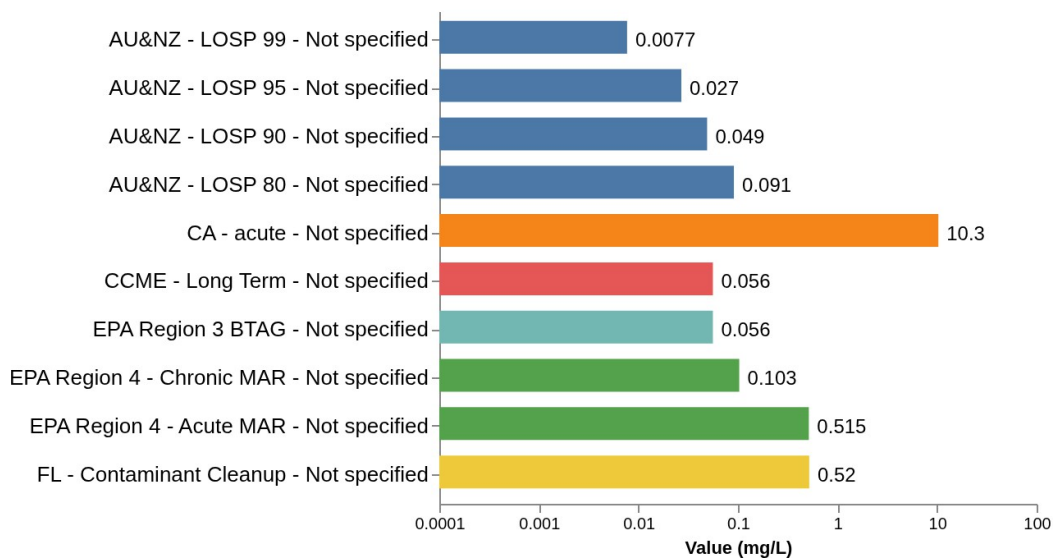


Table 83: Benchmark Values for Chromium(VI) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
18540-29-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.00014	85
18540-29-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.00440	85, 89
18540-29-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.02000	85, 94
18540-29-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.08500	85, 94
18540-29-9	California	Marine 6-month median	Not specified	0.00200	218, 221
18540-29-9	California	Marine daily max	Not specified	0.00800	218, 221
18540-29-9	California	Marine instantaneous max	Not specified	0.02000	218, 221
18540-29-9	California	Saltwater CCC, 4-day average	Not specified	0.05000	214, 216
18540-29-9	California	Saltwater CMC, 1-hour average	Not specified	1.10000	214, 216
18540-29-9	California	Saltwater CMC, 1-hour average	Not specified	1.10000	214
18540-29-9	Canada	Marine Long Term	Not specified	0.00150	
18540-29-9	Delaware	Marine Chronic Criterion	Not specified	0.05000	
18540-29-9	Delaware	Marine Acute Criterion	Not specified	1.10000	
18540-29-9	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.05000	
18540-29-9	EPA NRWQC	Saltwater CMC Acute	Not specified	1.10000	
18540-29-9	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.05000	
18540-29-9	EPA Region 3	BTAG – Marine	Not specified	0.00150	
18540-29-9	EPA Region 4	Chronic Marine	Not specified	0.05000	1
18540-29-9	EPA Region 4	Acute Marine	Not specified	1.10000	1
18540-29-9	EPA Region 6	Saltwater Chronic	Not specified	0.04960	21
18540-29-9	EPA Region 6	Saltwater Acute	Not specified	1.09000	21
18540-29-9	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.05000	
18540-29-9	New Jersey	Marine Chronic	Not specified	0.05000	199, 200
18540-29-9	New Jersey	Marine Acute	Not specified	1.10000	199, 200

Benchmark Values for Chromium(VI) in Surface Water (Marine)

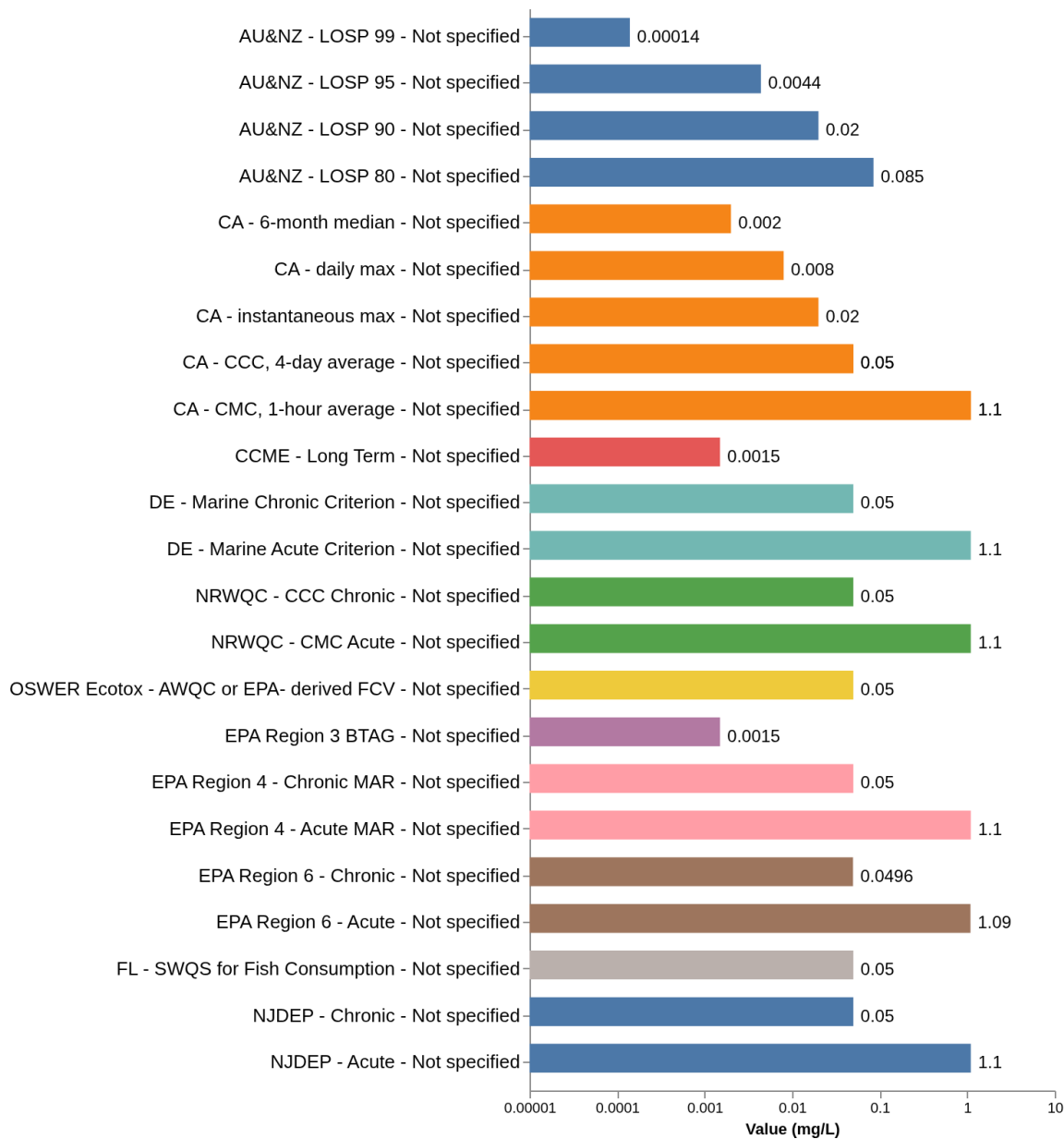


Table 84: Benchmark Values for Chromium, Total in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-47-3	California	Marine 6-month median	Not specified	0.0020	221
7440-47-3	California	Marine daily max	Not specified	0.0080	221
7440-47-3	California	Marine instantaneous max	Not specified	0.0200	221
7440-47-3	EPA Region 3	BTAG – Marine	Not specified	0.0575	
7440-47-3	Florida	Marine water Contaminant Cleanup	Not specified	0.0500	210

Benchmark Values for Chromium, Total in Surface Water (Marine)

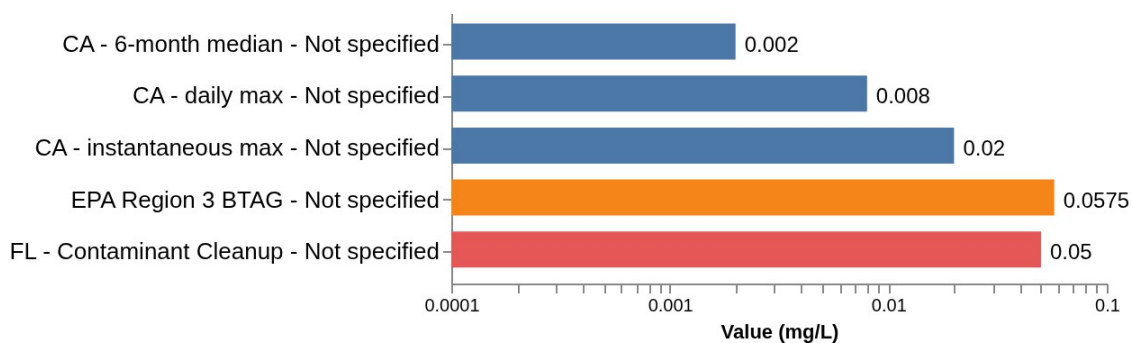


Table 85: Benchmark Values for Chrysene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
218-01-9	British Columbia	Marine LTC	Not specified	0.00010	
218-01-9	California	Saltwater acute	Not specified	0.30000	
218-01-9	EPA Region 4	Chronic Marine	Not specified	0.00035	7
218-01-9	EPA Region 4	Acute Marine	Not specified	0.00420	7

Benchmark Values for Chrysene in Surface Water (Marine)

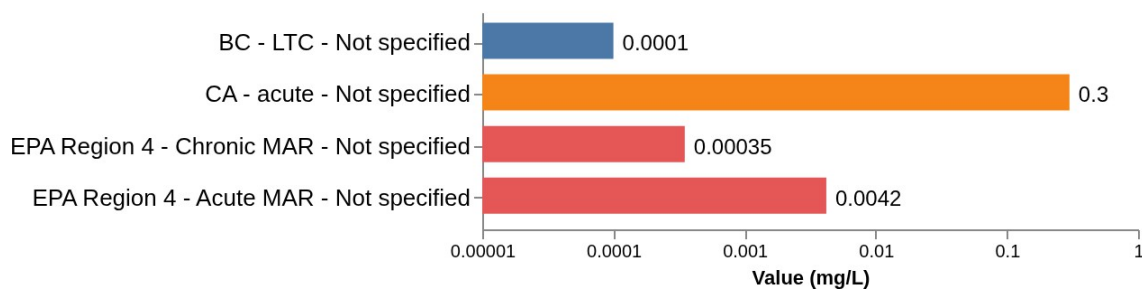


Table 86: Benchmark Values for Cobalt in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-48-4	Australia and New Zealand	Marine LOSP 99	Not specified	0.000005	86
7440-48-4	Australia and New Zealand	Marine LOSP 95	Not specified	0.001000	86, 89
7440-48-4	Australia and New Zealand	Marine LOSP 90	Not specified	0.014000	86
7440-48-4	Australia and New Zealand	Marine LOSP 80	Not specified	0.150000	86, 94
7440-48-4	EPA Region 6	Saltwater Chronic	Not specified	0.170000	
7440-48-4	EPA Region 6	Saltwater Acute	Not specified	1.000000	

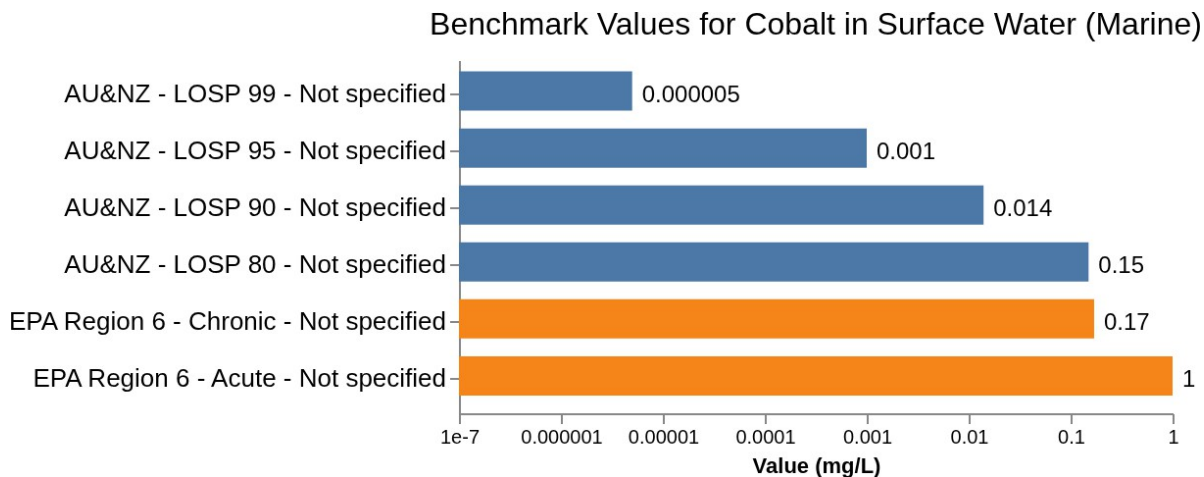


Table 87: Benchmark Values for Copper in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-50-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.0003	85
7440-50-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.0013	85, 89
7440-50-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.0030	85, 94
7440-50-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.0080	85, 92
7440-50-8	British Columbia	Marine LTC	Not specified	0.0020	
7440-50-8	British Columbia	Marine STA	Not specified	0.0030	
7440-50-8	California	Marine 6-month median	Not specified	0.0030	218
7440-50-8	California	Saltwater CCC, 4-day average	Not specified	0.0031	214
7440-50-8	California	Saltwater CMC, 1-hour average	Not specified	0.0048	214
7440-50-8	California	Saltwater CMC, 1-hour average	Not specified	0.0050	214, 216
7440-50-8	California	Marine daily max	Not specified	0.0120	218
7440-50-8	California	Marine instantaneous max	Not specified	0.0300	218
7440-50-8	Delaware	Marine Chronic Criterion	Not specified	0.0031	236
7440-50-8	Delaware	Marine Acute Criterion	Not specified	0.0048	236
7440-50-8	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0031	
7440-50-8	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0048	
7440-50-8	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0024	
7440-50-8	EPA Region 3	BTAG – Marine	Not specified	0.0031	
7440-50-8	EPA Region 4	Chronic Marine	Not specified	0.0031	1, 2
7440-50-8	EPA Region 4	Acute Marine	Not specified	0.0048	1, 2
7440-50-8	EPA Region 6	Saltwater Chronic	Not specified	0.0036	21
7440-50-8	EPA Region 6	Saltwater Acute	Not specified	0.0135	21
7440-50-8	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0037	
7440-50-8	New Jersey	Marine Chronic	Not specified	0.0031	199, 200
7440-50-8	New Jersey	Marine Acute	Not specified	0.0048	199, 200

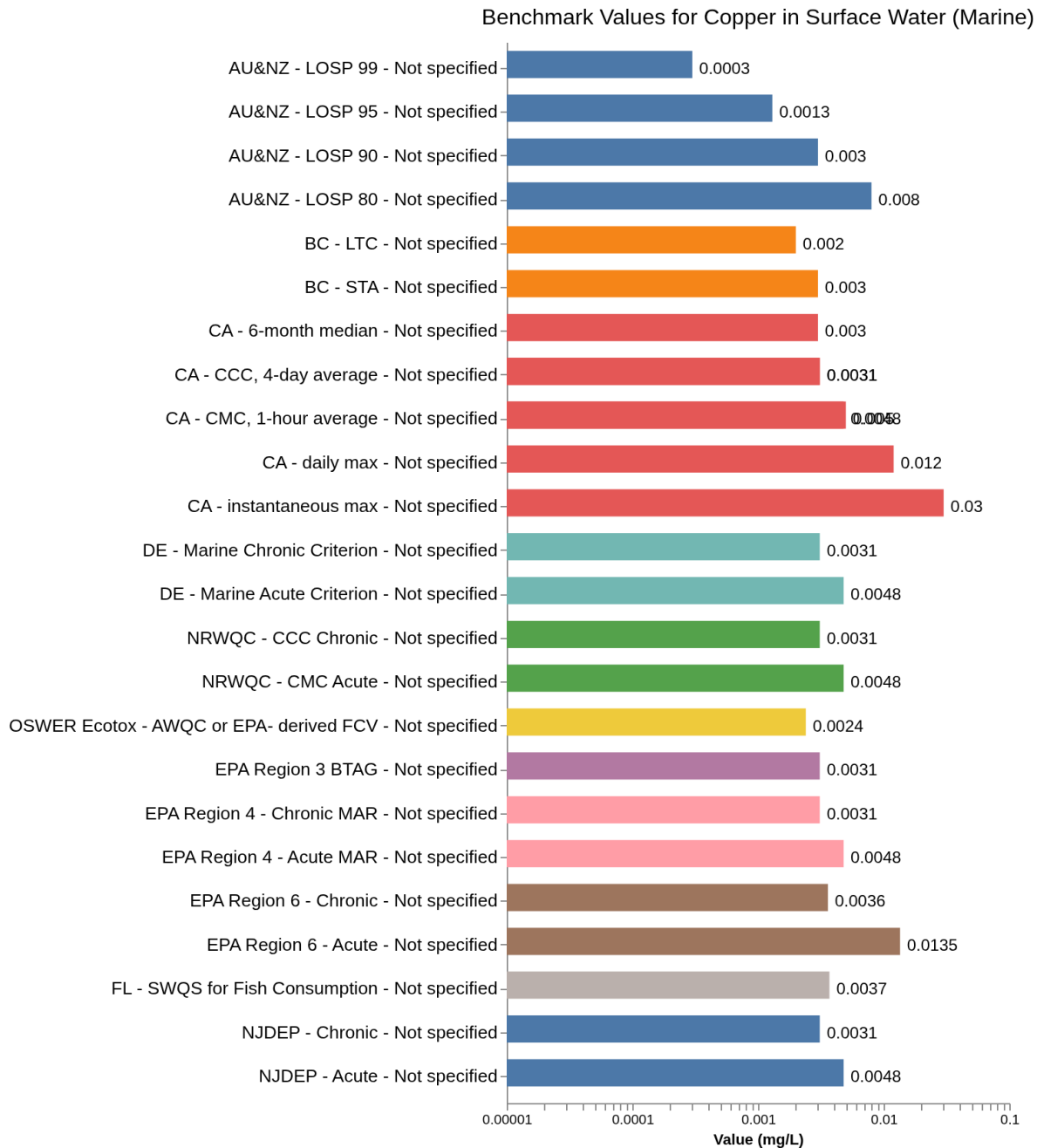


Table 88: Benchmark Values for Corexit 7664 in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
12774-30-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.001	83

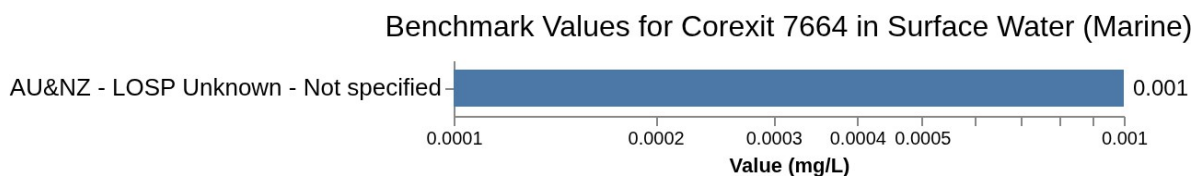


Table 89: Benchmark Values for Corexit 9527 in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
60617-06-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.23	88
60617-06-3	Australia and New Zealand	Marine LOSP 95	Not specified	1.10	88, 89
60617-06-3	Australia and New Zealand	Marine LOSP 90	Not specified	2.20	88
60617-06-3	Australia and New Zealand	Marine LOSP 80	Not specified	4.40	88, 92

Benchmark Values for Corexit 9527 in Surface Water (Marine)

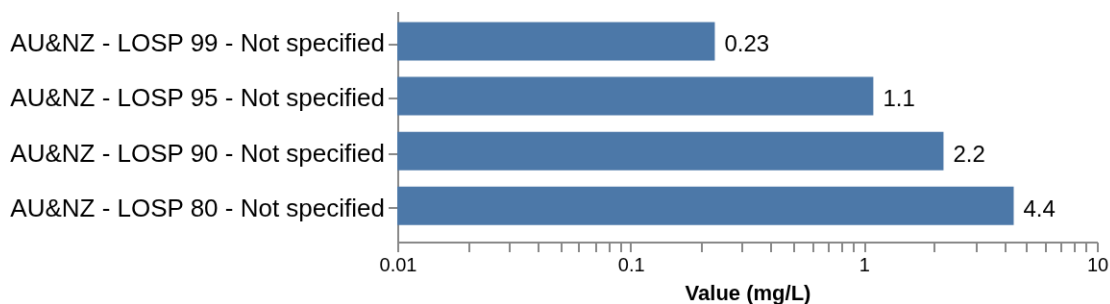


Table 90: Benchmark Values for Corexit 9550 in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
101550-82-7	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.14	83

Benchmark Values for Corexit 9550 in Surface Water (Marine)

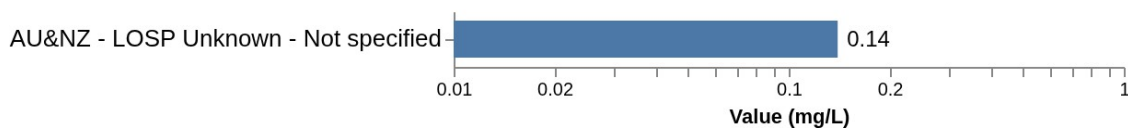


Table 91: Benchmark Values for Cresol, m- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-39-4	California	Marine 6-month median	Not specified	0.030	218
108-39-4	California	Marine daily max	Not specified	0.120	218
108-39-4	California	Marine instantaneous max	Not specified	0.300	218
108-39-4	EPA Region 4	Chronic Marine	Not specified	0.995	
108-39-4	EPA Region 4	Acute Marine	Not specified	2.615	

Benchmark Values for Cresol, m- in Surface Water (Marine)

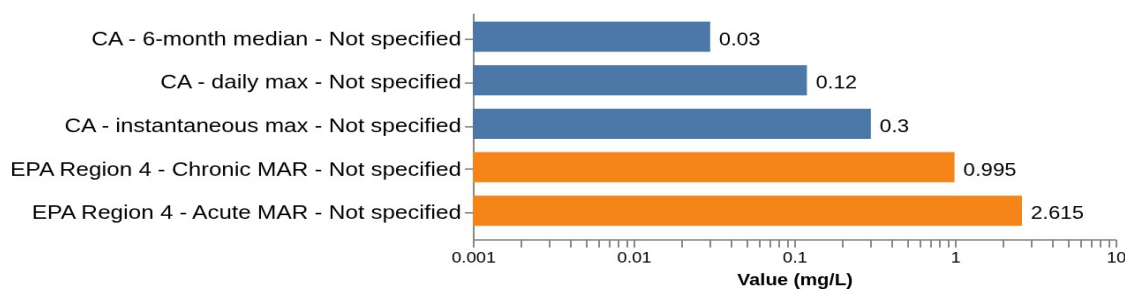


Table 92: Benchmark Values for Cresol, o- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-48-7	California	Marine 6-month median	Not specified	0.030	218
95-48-7	California	Marine daily max	Not specified	0.120	218
95-48-7	California	Marine instantaneous max	Not specified	0.300	218
95-48-7	EPA Region 3	BTAG - Marine	Not specified	1.020	
95-48-7	EPA Region 4	Chronic Marine	Not specified	0.995	
95-48-7	EPA Region 4	Acute Marine	Not specified	2.615	
95-48-7	EPA Region 6	Saltwater Chronic	Not specified	1.180	
95-48-7	EPA Region 6	Saltwater Acute	Not specified	3.540	

Benchmark Values for Cresol, o- in Surface Water (Marine)

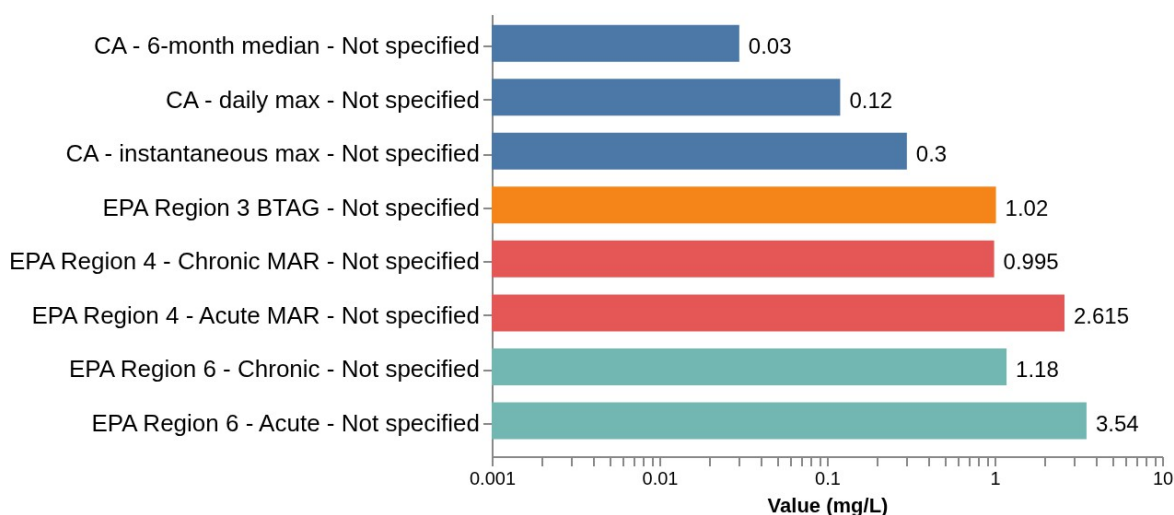


Table 93: Benchmark Values for Cresol, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-44-5	California	Marine 6-month median	Not specified	0.030	218
106-44-5	California	Marine daily max	Not specified	0.120	218
106-44-5	California	Marine instantaneous max	Not specified	0.300	218
106-44-5	EPA Region 4	Chronic Marine	Not specified	0.405	
106-44-5	EPA Region 4	Acute Marine	Not specified	1.680	
106-44-5	EPA Region 6	Saltwater Chronic	Not specified	0.336	
106-44-5	EPA Region 6	Saltwater Acute	Not specified	1.010	

Benchmark Values for Cresol, p- in Surface Water (Marine)

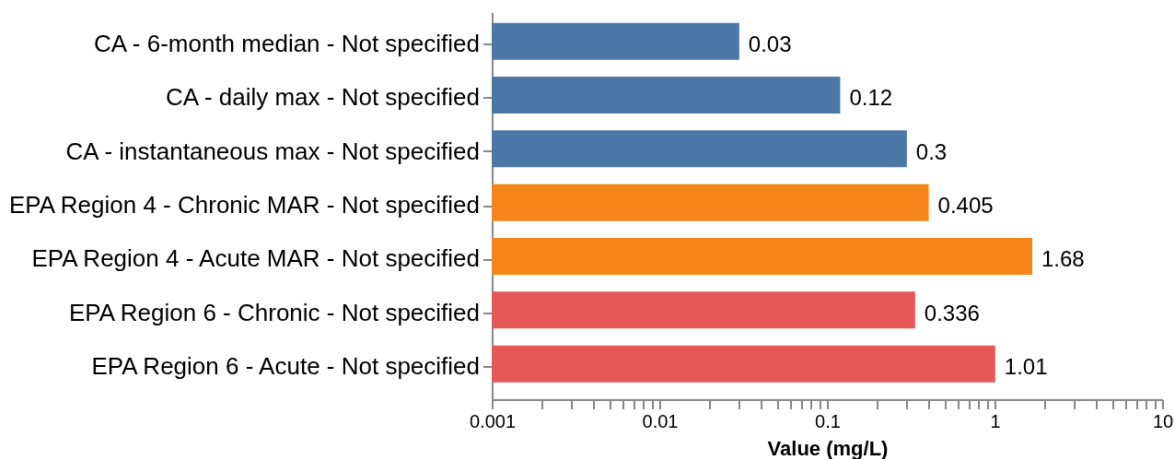


Table 94: Benchmark Values for Cresol, p-chloro-m- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
59-50-7	California	Marine 6-month median	Not specified	0.001	219
59-50-7	California	Marine daily max	Not specified	0.004	219
59-50-7	California	Marine instantaneous max	Not specified	0.010	219
59-50-7	EPA Region 4	Chronic Marine	Not specified	0.241	
59-50-7	EPA Region 4	Acute Marine	Not specified	1.000	

Benchmark Values for Cresol, p-chloro-m- in Surface Water (Marine)

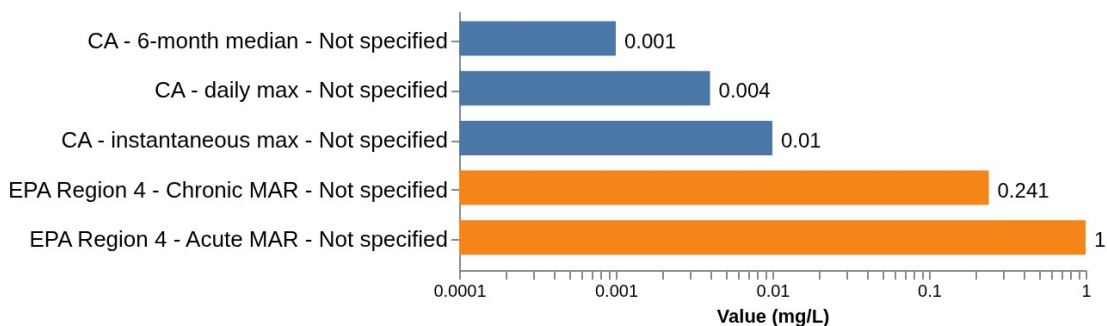


Table 95: Benchmark Values for Cumene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98-82-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.020	83
98-82-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.030	83, 89
98-82-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.040	83
98-82-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.070	83
98-82-8	EPA Region 4	Chronic Marine	Not specified	0.098	
98-82-8	EPA Region 4	Acute Marine	Not specified	0.547	

Benchmark Values for Cumene in Surface Water (Marine)

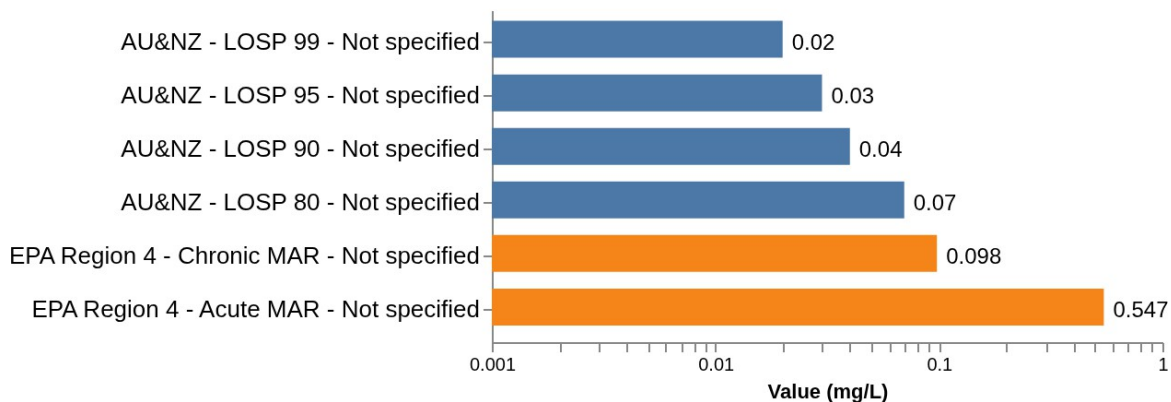


Table 96: Benchmark Values for Cyanazine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
21725-46-2	EPA Region 4	Acute Marine	Not specified	0.061	

Benchmark Values for Cyanazine in Surface Water (Marine)

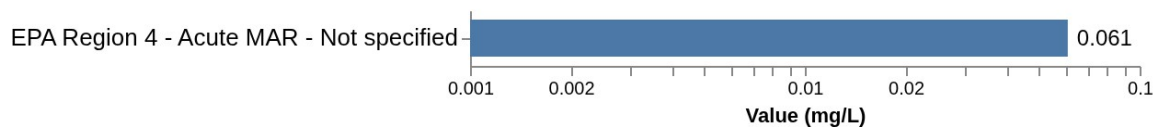


Table 97: Benchmark Values for Cyanide (CN-) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57-12-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.0020	84, 107
57-12-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.0040	84, 89, 107
57-12-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.0070	84, 107
57-12-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.0140	84, 107
57-12-5	California	Saltwater CMC, 1-hour average	Not specified	0.0010	216
57-12-5	California	Saltwater CCC, 4-day average	Not specified	0.0010	
57-12-5	California	Saltwater CMC, 1-hour average	Not specified	0.0010	
57-12-5	California	Marine 6-month median	Not specified	0.0010	
57-12-5	California	Marine daily max	Not specified	0.0040	
57-12-5	California	Marine instantaneous max	Not specified	0.0100	
57-12-5	Delaware	Marine Acute Criterion	Not specified	0.0010	238
57-12-5	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0010	
57-12-5	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0010	
57-12-5	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0010	
57-12-5	EPA Region 3	BTAG – Marine	Not specified	0.0010	
57-12-5	EPA Region 4	Acute Marine	Not specified	0.0010	
57-12-5	EPA Region 4	Chronic Marine	Not specified	0.0010	
57-12-5	EPA Region 6	Saltwater Acute	Not specified	0.0056	
57-12-5	EPA Region 6	Saltwater Chronic	Not specified	0.0056	
57-12-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0010	
57-12-5	New Jersey	Marine Acute	Not specified	0.0027	201
57-12-5	New Jersey	Marine Chronic	Not specified	0.0027	201

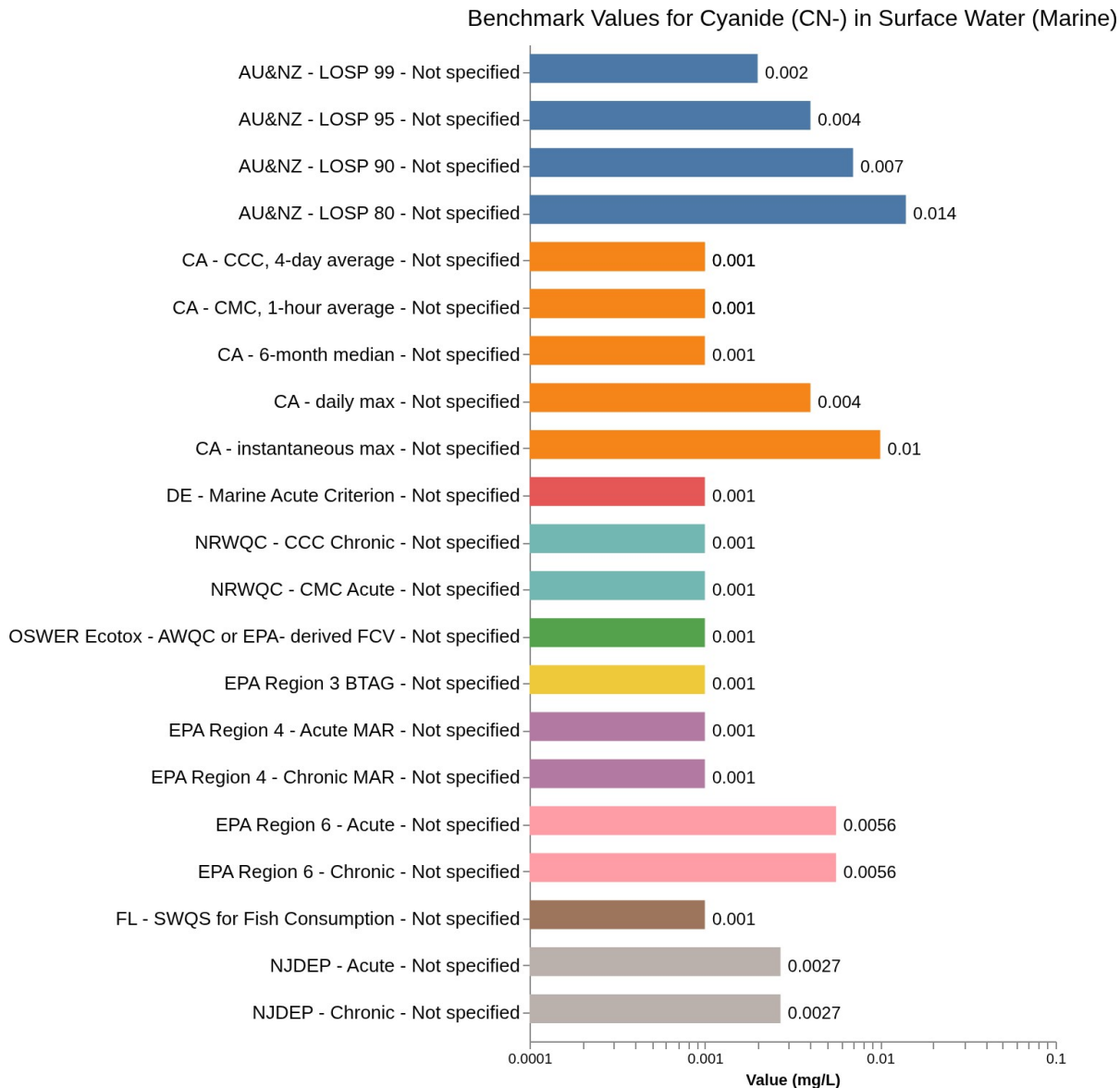


Table 98: Benchmark Values for Cyclohexane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
110-82-7	EPA Region 4	Chronic Marine	Not specified	0.158
110-82-7	EPA Region 4	Acute Marine	Not specified	0.890

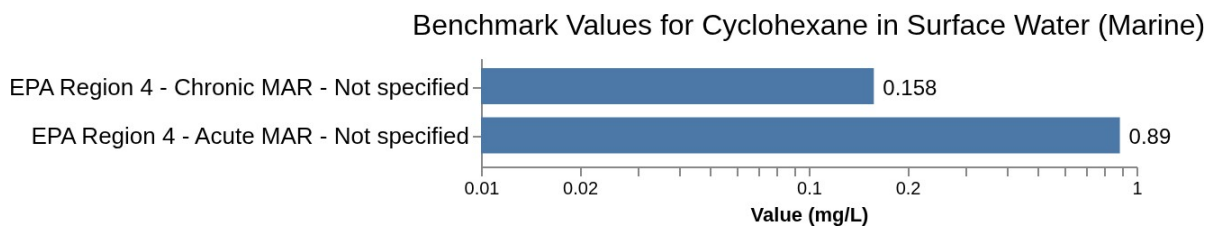


Table 99: Benchmark Values for DDT, Total in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-07-7	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000001
000000-07-7	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000130

Benchmark Values for DDT, Total in Surface Water (Marine)

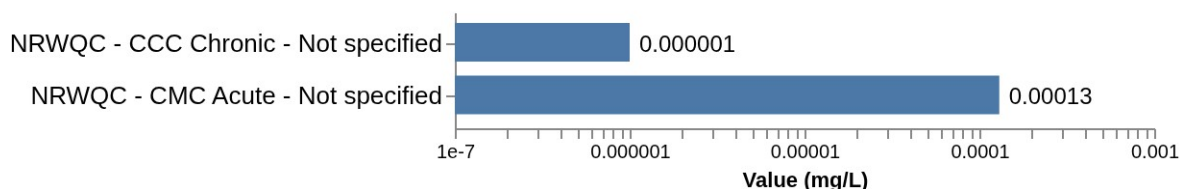


Table 100: Benchmark Values for DDT/DDE/DDD (total) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-05-1	Delaware	Marine Chronic Criterion	Not specified	0.000001
000000-05-1	Delaware	Marine Acute Criterion	Not specified	0.000130

Benchmark Values for DDT/DDE/DDD (total) in Surface Water (Marine)

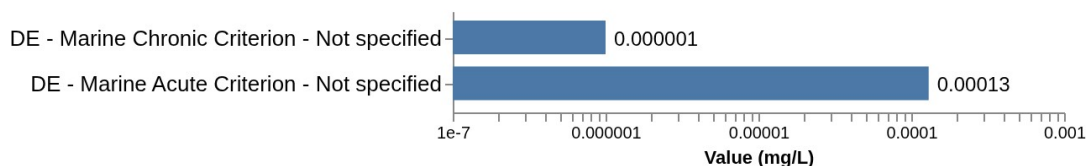


Table 101: Benchmark Values for Decane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
124-18-5	EPA Region 4	Chronic Marine	Not specified	0.004
124-18-5	EPA Region 4	Acute Marine	Not specified	0.017

Benchmark Values for Decane in Surface Water (Marine)

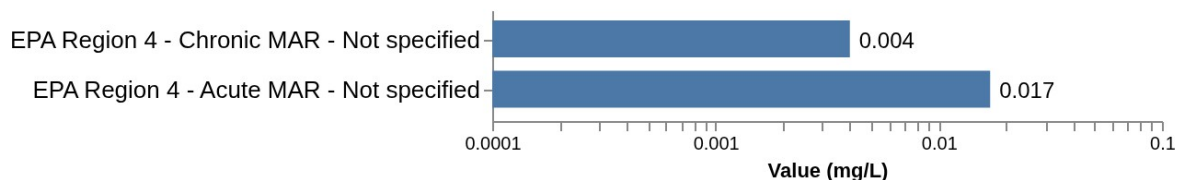


Table 102: Benchmark Values for Deltamethrin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
52918-63-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	1.000000e-07	82, 83

Benchmark Values for Deltamethrin in Surface Water (Marine)

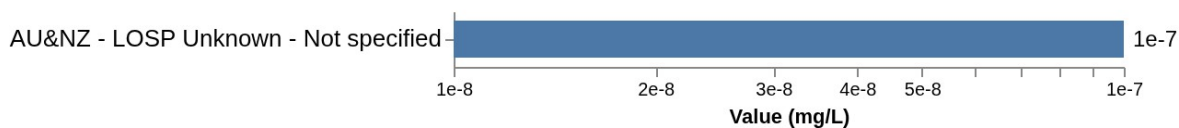


Table 103: Benchmark Values for Demeton, S in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
126-75-0	EPA Region 4	Chronic Marine	Not specified	0.0001	7
126-75-0	EPA Region 4	Acute Marine	Not specified	0.0052	7

Benchmark Values for Demeton, S in Surface Water (Marine)

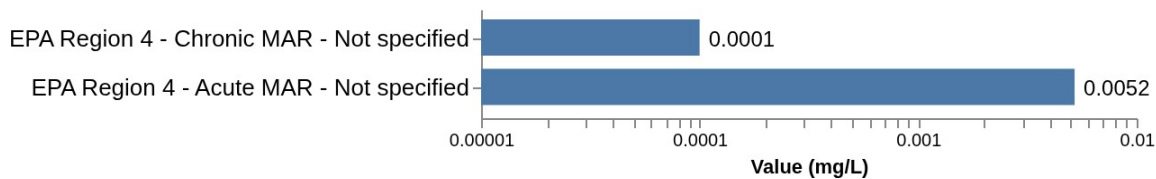


Table 104: Benchmark Values for Demeton in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
8065-48-3	California	Saltwater instantaneous max	Not specified	0.0001
8065-48-3	Delaware	Marine Chronic Criterion	Not specified	0.0001
8065-48-3	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0001
8065-48-3	EPA Region 3	BTAG – Marine	Not specified	0.0001
8065-48-3	EPA Region 6	Saltwater Chronic	Not specified	0.0001
8065-48-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0001
8065-48-3	New Jersey	Marine Chronic	Not specified	0.0001

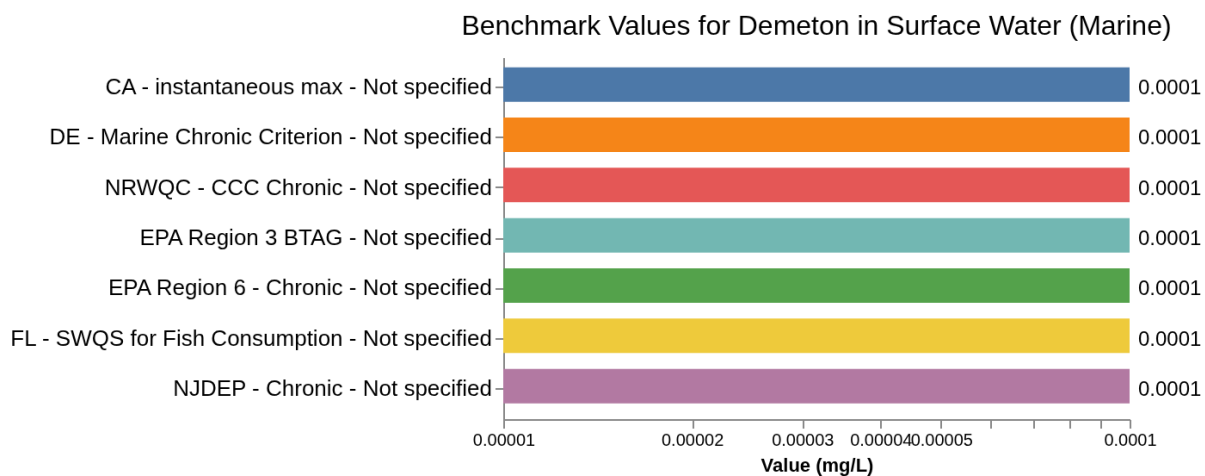


Table 105: Benchmark Values for Diazinon in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
333-41-5	Australia and New Zealand	Marine LOSP 99	Not specified	3.000000e-08	82, 88
333-41-5	Australia and New Zealand	Marine LOSP 95	Not specified	1.000000e-05	82, 83
333-41-5	Australia and New Zealand	Marine LOSP 90	Not specified	2.000000e-04	82, 83
333-41-5	Australia and New Zealand	Marine LOSP 80	Not specified	2.000000e-03	82, 83
333-41-5	California	Saltwater CMC, 1-hour average	Not specified	8.200000e-04	
333-41-5	California	Saltwater CCC, 4-day average	Not specified	8.200000e-04	
333-41-5	Delaware	Marine Acute Criterion	Not specified	8.200000e-04	
333-41-5	Delaware	Marine Chronic Criterion	Not specified	8.200000e-04	
333-41-5	EPA NRWQC	Saltwater CCC Chronic	Not specified	8.200000e-04	
333-41-5	EPA NRWQC	Saltwater CMC Acute	Not specified	8.200000e-04	
333-41-5	EPA Region 4	Acute Marine	Not specified	8.200000e-04	7
333-41-5	EPA Region 4	Chronic Marine	Not specified	8.200000e-04	7
333-41-5	EPA Region 6	Saltwater Acute	Not specified	8.190000e-04	
333-41-5	EPA Region 6	Saltwater Chronic	Not specified	8.190000e-04	
333-41-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	8.200000e-04	

Benchmark Values for Diazinon in Surface Water (Marine)

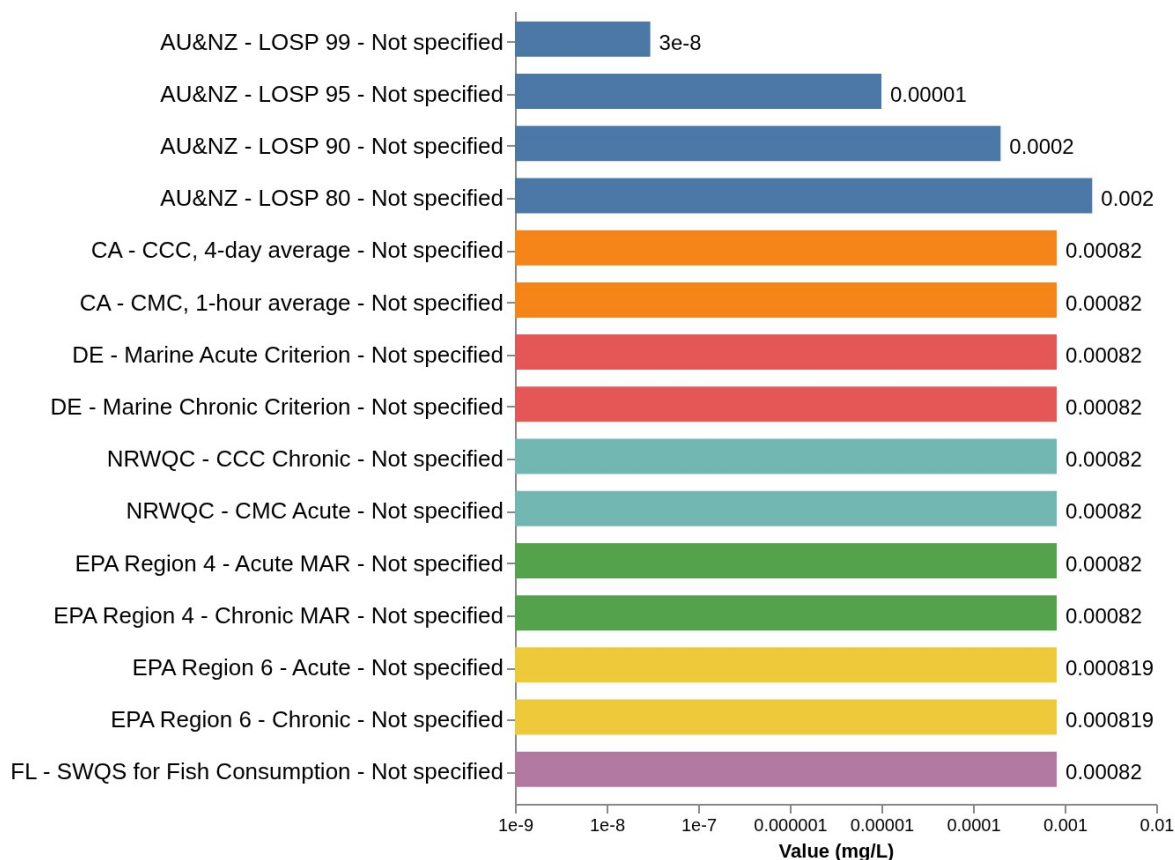


Table 106: Benchmark Values for Dibenz[a,h]anthracene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
53-70-3	California	Saltwater acute	Not specified	0.30000	
53-70-3	EPA Region 4	Chronic Marine	Not specified	0.00001	7
53-70-3	EPA Region 4	Acute Marine	Not specified	0.00028	7

Benchmark Values for Dibenz[a,h]anthracene in Surface Water (Marine)

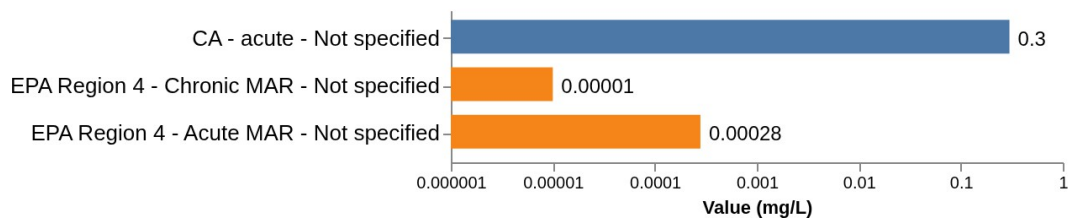


Table 107: Benchmark Values for Dibenzo[a,e]pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
192-65-4	California	Saltwater acute	Not specified	0.3

Benchmark Values for Dibenzo[a,e]pyrene in Surface Water (Marine)

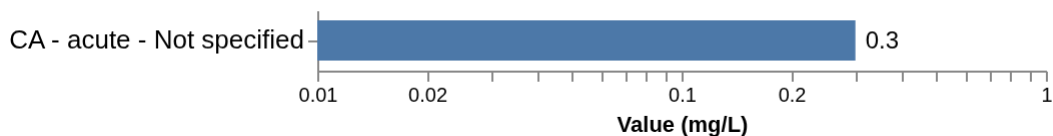


Table 108: Benchmark Values for Dibenzo[a,h]pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
189-64-0	California	Saltwater acute	Not specified	0.3

Benchmark Values for Dibenzo[a,h]pyrene in Surface Water (Marine)

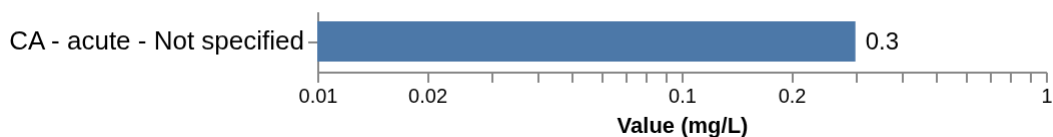


Table 109: Benchmark Values for Dibenzo[a,i]pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
189-55-9	California	Saltwater acute	Not specified	0.3

Benchmark Values for Dibenzo[a,i]pyrene in Surface Water (Marine)

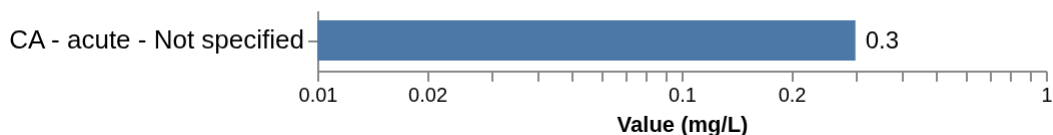


Table 110: Benchmark Values for Dibenzo[a,l]pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
191-30-0	California	Saltwater acute	Not specified	0.3

Benchmark Values for Dibenzo[a,l]pyrene in Surface Water (Marine)

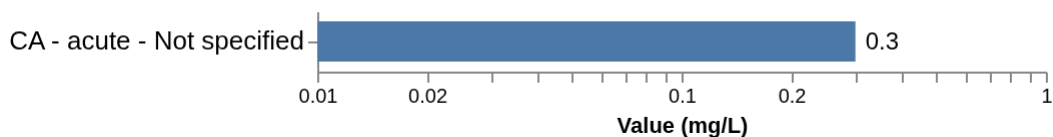
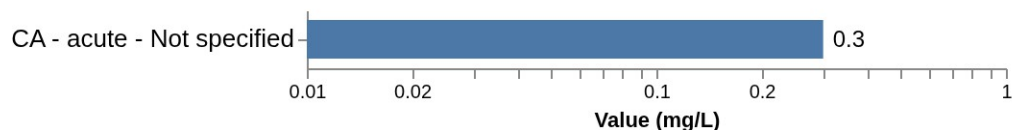
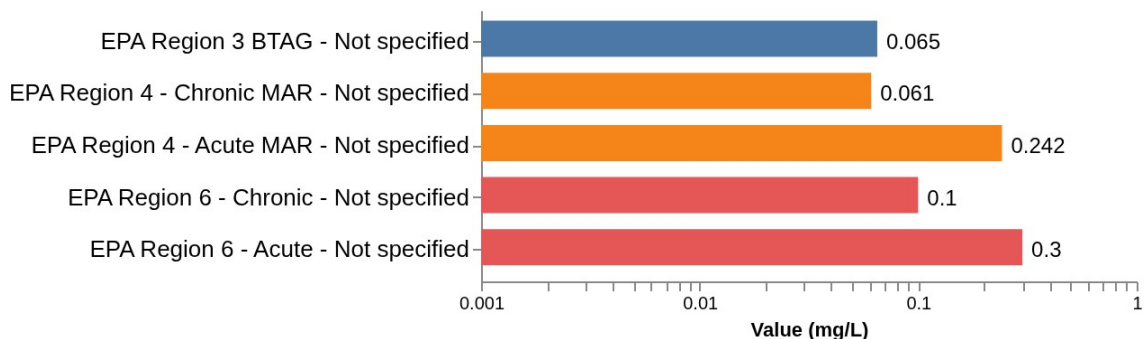


Table 111: Benchmark Values for Dibenzo[c,g]carbazole, 7H- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
194-59-2	California	Saltwater acute	Not specified	0.3

Benchmark Values for Dibenzo[c,g]carbazole, 7H- in Surface Water (Marine)**Table 112: Benchmark Values for Dibenzofuran in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
132-64-9	EPA Region 3	BTAG – Marine	Not specified	0.065
132-64-9	EPA Region 4	Chronic Marine	Not specified	0.061
132-64-9	EPA Region 4	Acute Marine	Not specified	0.242
132-64-9	EPA Region 6	Saltwater Chronic	Not specified	0.100
132-64-9	EPA Region 6	Saltwater Acute	Not specified	0.300

Benchmark Values for Dibenzofuran in Surface Water (Marine)**Table 113: Benchmark Values for Dibromo-3-nitrilopropionamide, 2,2- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
10222-01-2	EPA Region 4	Chronic Marine	Not specified	0.01
10222-01-2	EPA Region 4	Acute Marine	Not specified	0.04

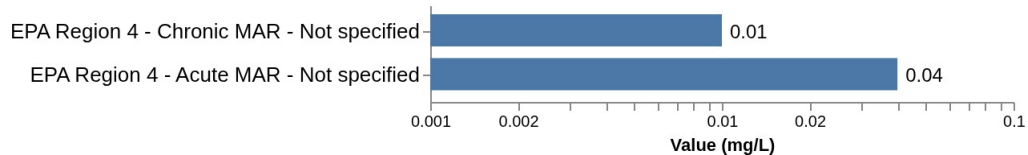
Benchmark Values for Dibromo-3-nitrilopropionamide, 2,2- in Surface Water (Marine)

Table 114: Benchmark Values for Dibromochloromethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
124-48-1	California	Saltwater chronic	Not specified	6.400
124-48-1	California	Saltwater other toxicity	Not specified	11.500
124-48-1	California	Saltwater acute	Not specified	12.000
124-48-1	EPA Region 4	Chronic Marine	Not specified	0.034
124-48-1	EPA Region 4	Acute Marine	Not specified	13.416

Benchmark Values for Dibromochloromethane in Surface Water (Marine)

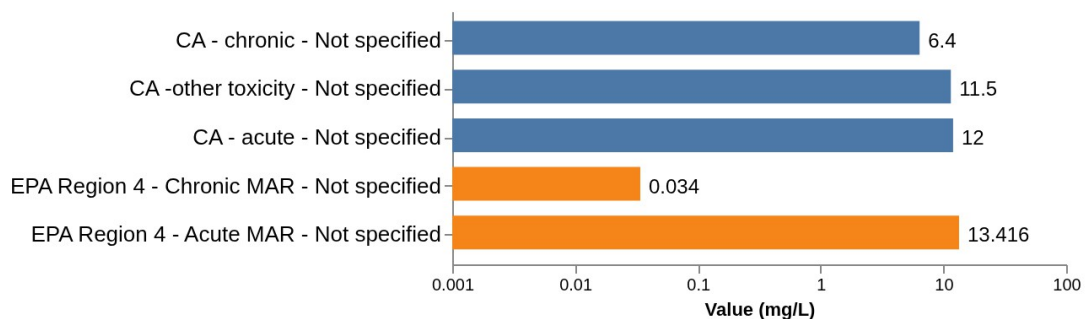


Table 115: Benchmark Values for Dibutyl Phthalate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
84-74-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.0100	82, 87, 101
84-74-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.0260	82, 83, 101
84-74-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.0400	82, 83, 101
84-74-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.0650	82, 83
84-74-2	California	Saltwater other toxicity	Not specified	0.0034	
84-74-2	California	Saltwater acute	Not specified	2.9440	
84-74-2	EPA Region 3	BTAG – Marine	Not specified	0.0034	
84-74-2	EPA Region 4	Chronic Marine	Not specified	0.0270	
84-74-2	EPA Region 4	Acute Marine	Not specified	0.1020	
84-74-2	EPA Region 6	Saltwater Chronic	Not specified	0.0500	
84-74-2	EPA Region 6	Saltwater Acute	Not specified	0.1500	

Benchmark Values for Dibutyl Phthalate in Surface Water (Marine)

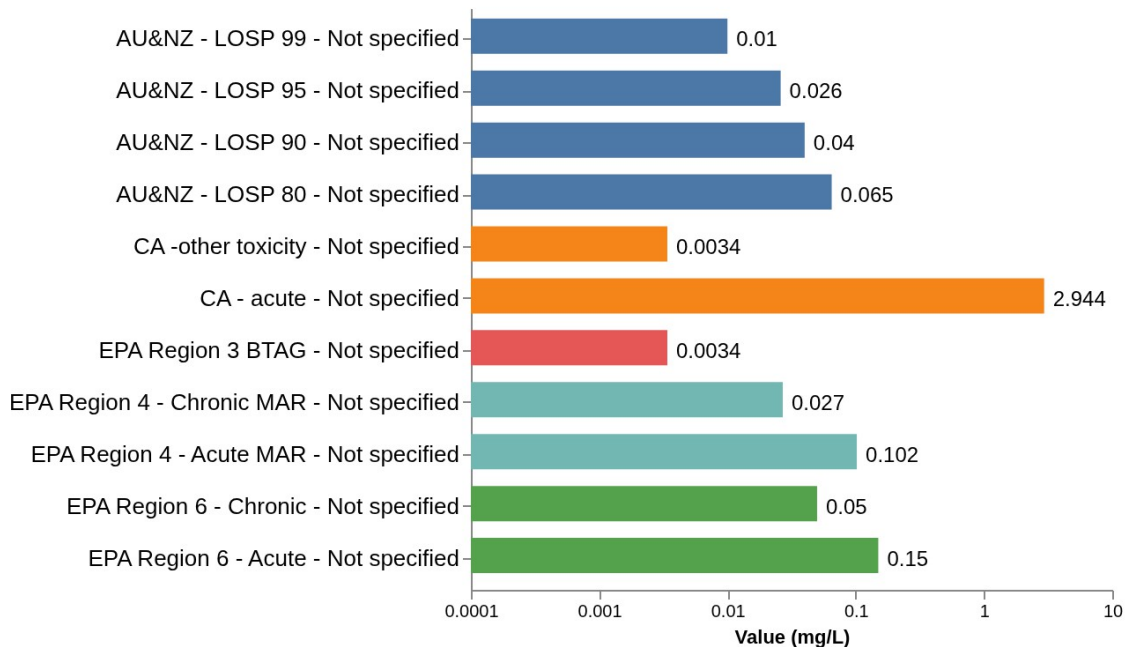
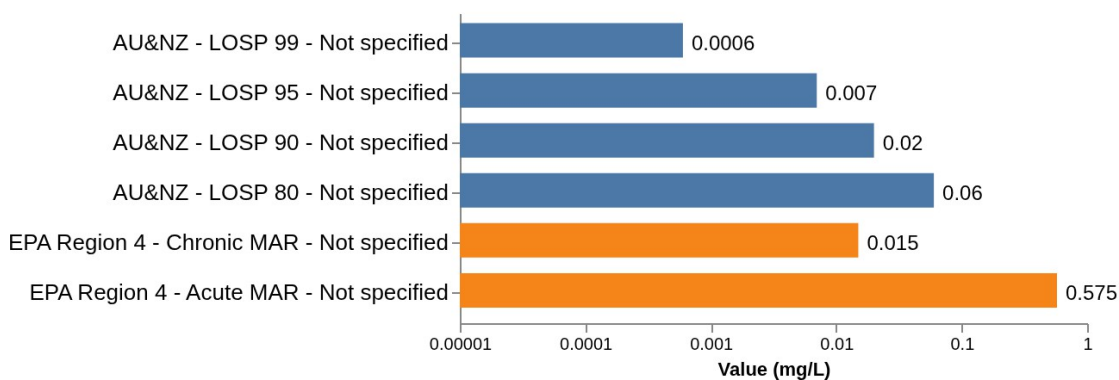


Table 116: Benchmark Values for Dichloroaniline, 2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
554-00-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.0006	82, 87
554-00-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.0070	82, 83
554-00-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.0200	82, 83
554-00-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.0600	82, 83
554-00-7	EPA Region 4	Chronic Marine	Not specified	0.0150	
554-00-7	EPA Region 4	Acute Marine	Not specified	0.5750	

Benchmark Values for Dichloroaniline, 2,4- in Surface Water (Marine)**Table 117: Benchmark Values for Dichloroaniline, 3,4- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-76-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.085	88
95-76-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.150	88, 89
95-76-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.190	88
95-76-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.260	88

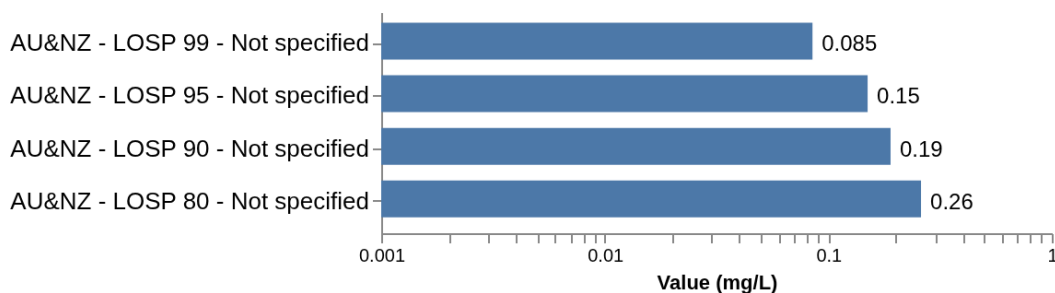
Benchmark Values for Dichloroaniline, 3,4- in Surface Water (Marine)

Table 118: Benchmark Values for Dichlorobenzene, 1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-50-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.120	82, 87
95-50-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.160	82, 83
95-50-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.200	82, 83
95-50-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.270	82, 83
95-50-1	California	Saltwater chronic	Not specified	0.129	
95-50-1	California	Saltwater acute	Not specified	1.970	
95-50-1	Canada	Marine Long Term	Not specified	0.042	
95-50-1	EPA Region 3	BTAG – Marine	Not specified	0.042	
95-50-1	EPA Region 4	Chronic Marine	Not specified	0.042	
95-50-1	EPA Region 4	Acute Marine	Not specified	0.660	
95-50-1	EPA Region 6	Saltwater Chronic	Not specified	0.099	
95-50-1	EPA Region 6	Saltwater Acute	Not specified	0.591	

Benchmark Values for Dichlorobenzene, 1,2- in Surface Water (Marine)

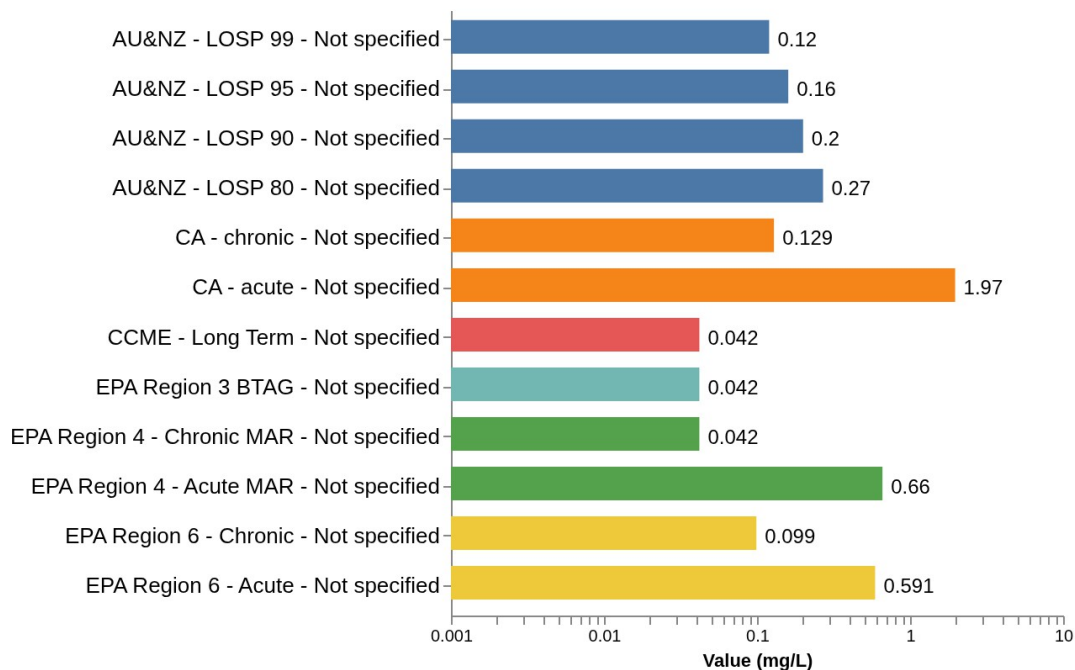


Table 119: Benchmark Values for Dichlorobenzene, 1,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
541-73-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.1600	82, 87
541-73-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.2600	82, 83
541-73-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.3500	82, 83
541-73-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.5200	82, 83
541-73-1	California	Saltwater chronic	Not specified	0.1290	
541-73-1	California	Saltwater acute	Not specified	1.9700	
541-73-1	EPA Region 3	BTAG – Marine	Not specified	0.0285	
541-73-1	EPA Region 4	Chronic Marine	Not specified	0.3900	
541-73-1	EPA Region 4	Acute Marine	Not specified	0.6600	
541-73-1	EPA Region 6	Saltwater Chronic	Not specified	0.1420	
541-73-1	EPA Region 6	Saltwater Acute	Not specified	0.8550	

Benchmark Values for Dichlorobenzene, 1,3- in Surface Water (Marine)

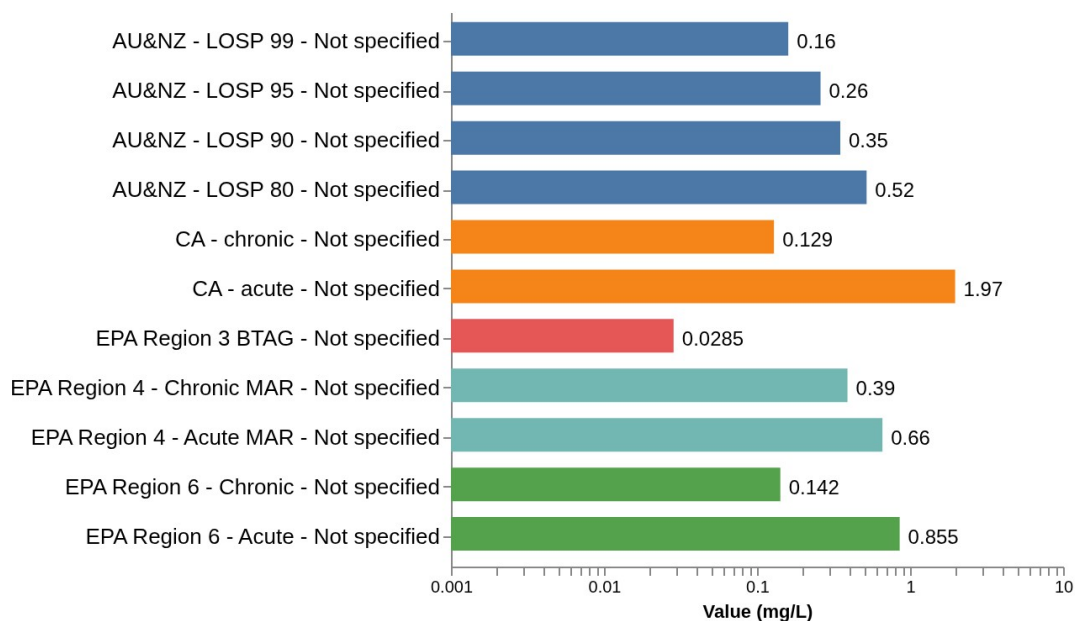


Table 120: Benchmark Values for Dichlorobenzene, 1,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-46-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.0400	82, 88
106-46-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.0600	82, 83
106-46-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.0750	82, 83
106-46-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.1000	82, 83
106-46-7	California	Saltwater chronic	Not specified	0.1290	
106-46-7	California	Saltwater acute	Not specified	1.9700	
106-46-7	EPA Region 3	BTAG – Marine	Not specified	0.0199	
106-46-7	EPA Region 4	Chronic Marine	Not specified	0.1150	
106-46-7	EPA Region 4	Acute Marine	Not specified	0.6600	
106-46-7	EPA Region 6	Saltwater Chronic	Not specified	0.0990	
106-46-7	EPA Region 6	Saltwater Acute	Not specified	0.5970	

Benchmark Values for Dichlorobenzene, 1,4- in Surface Water (Marine)

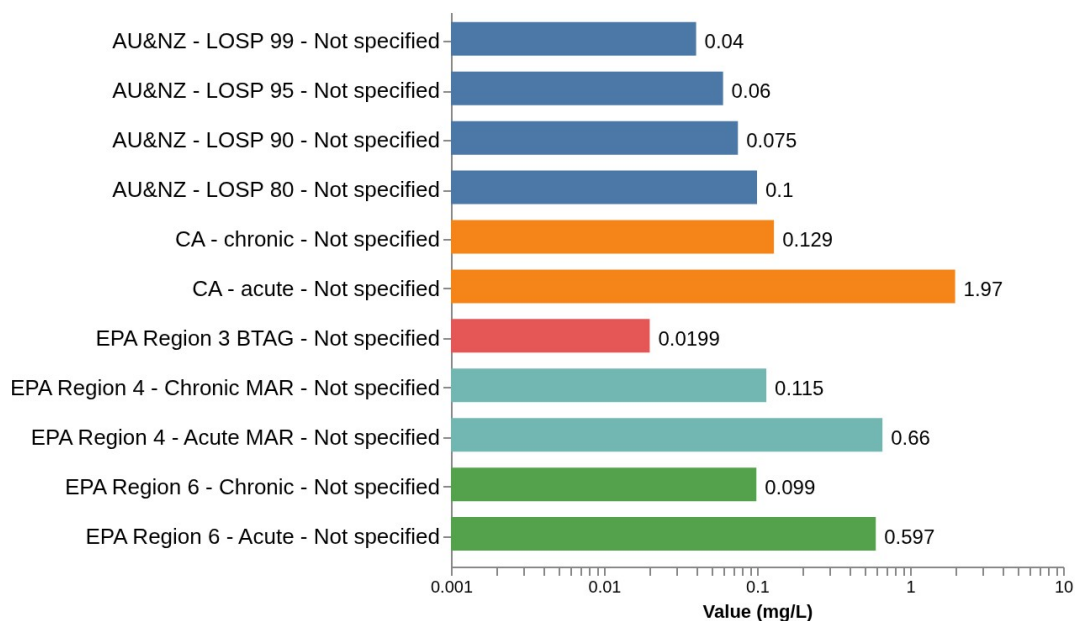


Table 121: Benchmark Values for Dichlorobenzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
25321-22-6	California	Saltwater chronic	Not specified	0.129
25321-22-6	California	Saltwater acute	Not specified	1.970

Benchmark Values for Dichlorobenzene in Surface Water (Marine)

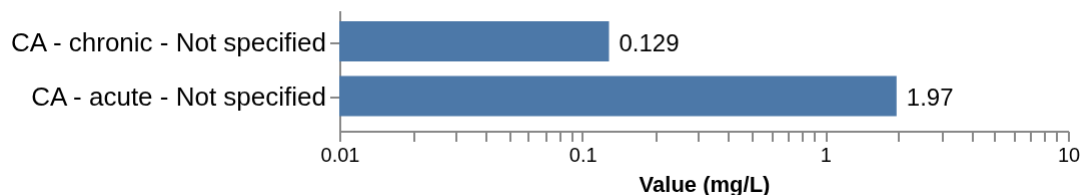


Table 122: Benchmark Values for Dichlorobenzidine, 3,3'– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-94-1	EPA Region 3	BTAG – Marine	Not specified	0.073
91-94-1	EPA Region 4	Chronic Marine	Not specified	0.013
91-94-1	EPA Region 4	Acute Marine	Not specified	0.505
91-94-1	EPA Region 6	Saltwater Chronic	Not specified	0.037
91-94-1	EPA Region 6	Saltwater Acute	Not specified	0.220

Benchmark Values for Dichlorobenzidine, 3,3'- in Surface Water (Marine)

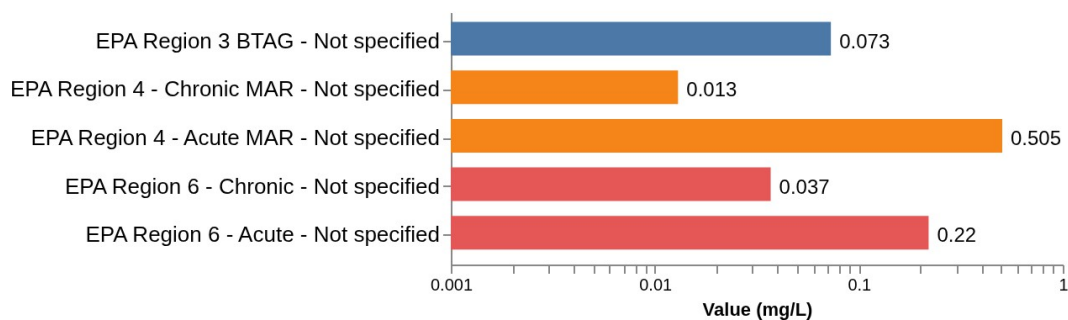


Table 123: Benchmark Values for Dichlorodifluoromethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-71-8	California	Saltwater chronic	Not specified	6.4
75-71-8	California	Saltwater other toxicity	Not specified	11.5
75-71-8	California	Saltwater acute	Not specified	12.0

Benchmark Values for Dichlorodifluoromethane in Surface Water (Marine)

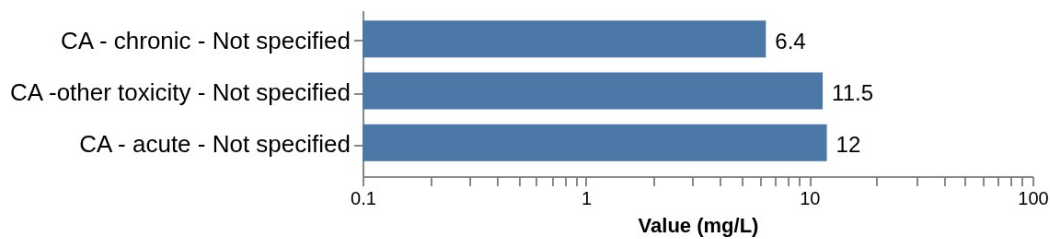


Table 124: Benchmark Values for Dichlorodiphenyldichloroethane, p,p'- (DDD) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-54-8	California	Saltwater CCC, 4-day average	Not specified	0.000001	228
72-54-8	California	Saltwater instantaneous max	Not specified	0.000130	228
72-54-8	California	Saltwater acute	Not specified	0.003600	
72-54-8	EPA Region 3	BTAG – Marine	Not specified	0.000025	
72-54-8	EPA Region 4	Chronic Marine	Not specified	0.000084	7
72-54-8	EPA Region 4	Acute Marine	Not specified	0.000350	7
72-54-8	EPA Region 6	Saltwater Chronic	Not specified	0.000025	
72-54-8	EPA Region 6	Saltwater Acute	Not specified	0.000750	

Benchmark Values for Dichlorodiphenyldichloroethane, p,p'- (DDD) in Surface Water (Marine)

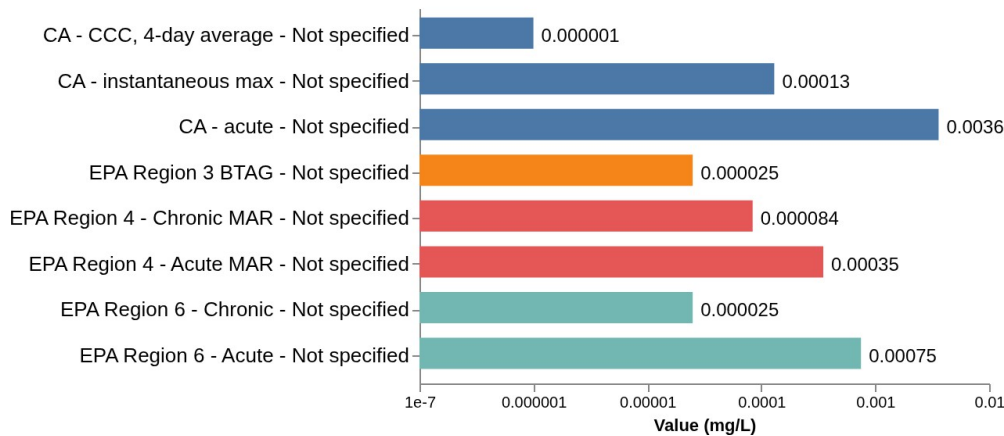


Table 125: Benchmark Values for Dichlorodiphenyldichloroethylene, p,p'- (DDE) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-55-9	California	Saltwater CCC, 4-day average	Not specified	0.000001	228
72-55-9	California	Saltwater instantaneous max	Not specified	0.000130	228
72-55-9	California	Saltwater acute	Not specified	0.014000	
72-55-9	EPA Region 3	BTAG – Marine	Not specified	0.000140	
72-55-9	EPA Region 4	Chronic Marine	Not specified	0.000140	7
72-55-9	EPA Region 4	Acute Marine	Not specified	0.000700	7

Benchmark Values for Dichlorodiphenyldichloroethylene, p,p'- (DDE) in Surface Water (Marine)

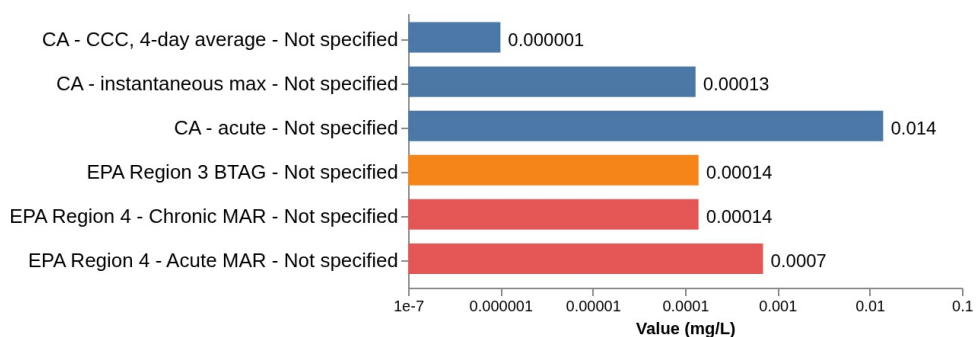


Table 126: Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'- (DDT) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50-29-3	Australia and New Zealand	Marine LOSP Unknown	Not specified	4.000000e-07	83, 101
50-29-3	California	Saltwater CCC, 4-day average	Not specified	1.000000e-06	
50-29-3	California	Saltwater instantaneous max	Not specified	1.300000e-04	
50-29-3	EPA NRWQC	Saltwater CCC Chronic	Not specified	1.000000e-06	
50-29-3	EPA NRWQC	Saltwater CMC Acute	Not specified	1.300000e-04	
50-29-3	EPA Region 3	BTAG – Marine	Not specified	6.500000e-06	
50-29-3	EPA Region 4	Chronic Marine	Aquatic only	1.000000e-05	7
50-29-3	EPA Region 4	Chronic Marine	Wildlife only	1.000000e-05	7
50-29-3	EPA Region 4	Acute Marine	Wildlife only	1.300000e-04	7
50-29-3	EPA Region 4	Acute Marine	Aquatic only	1.300000e-04	7
50-29-3	EPA Region 6	Saltwater Chronic	Not specified	1.000000e-06	
50-29-3	EPA Region 6	Saltwater Acute	Not specified	1.300000e-04	
50-29-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	5.900000e-07	
50-29-3	New Jersey	Marine Acute	Not specified	1.300000e-04	

Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'- (DDT) in Surface Water (Marine)

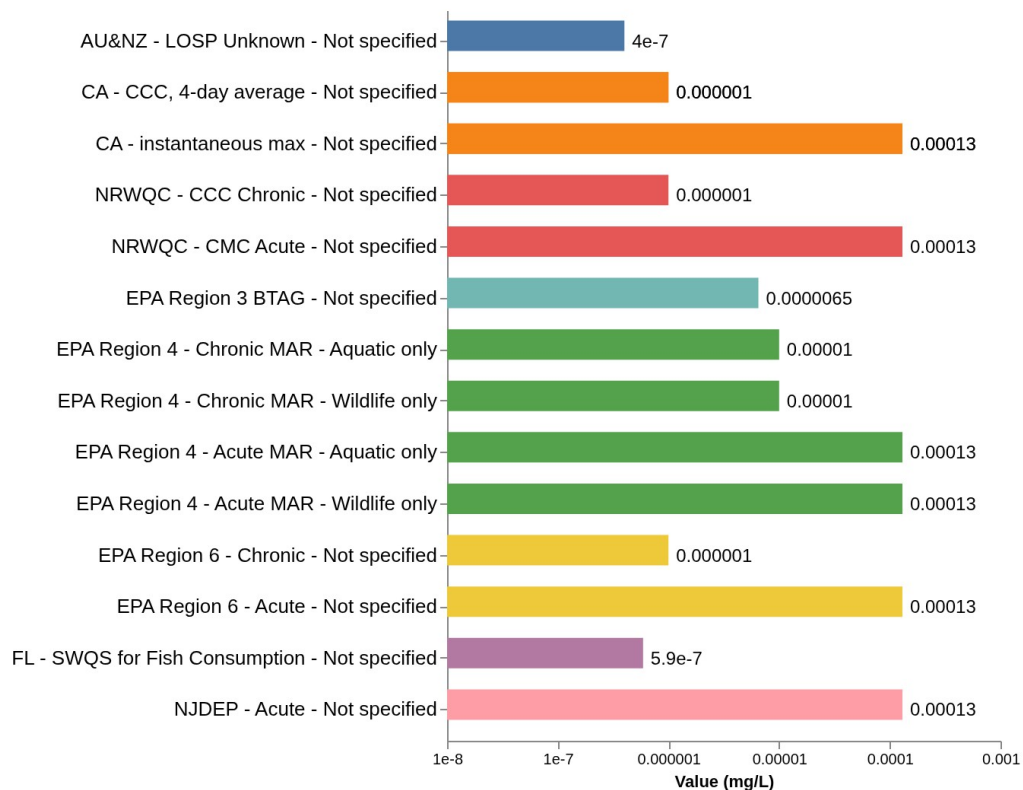


Table 127: Benchmark Values for Dichloroethane, 1,1- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-34-3	EPA Region 4	Chronic Marine	Not specified	2.692
75-34-3	EPA Region 4	Acute Marine	Not specified	10.310

Benchmark Values for Dichloroethane, 1,1- in Surface Water (Marine)

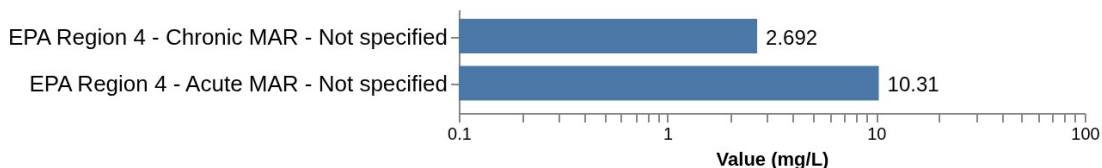


Table 128: Benchmark Values for Dichloroethane, 1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-06-2	Australia and New Zealand	Marine LOSP 99	Not specified	1.00	83
107-06-2	Australia and New Zealand	Marine LOSP 95	Not specified	1.90	83, 89
107-06-2	Australia and New Zealand	Marine LOSP 90	Not specified	2.60	83
107-06-2	Australia and New Zealand	Marine LOSP 80	Not specified	4.00	83
107-06-2	California	Saltwater acute	Not specified	113.00	
107-06-2	EPA Region 3	BTAG - Marine	Not specified	1.13	
107-06-2	EPA Region 4	Chronic Marine	Not specified	5.65	
107-06-2	EPA Region 4	Acute Marine	Not specified	11.30	
107-06-2	EPA Region 6	Saltwater Chronic	Not specified	11.50	
107-06-2	EPA Region 6	Saltwater Acute	Not specified	34.50	

Benchmark Values for Dichloroethane, 1,2- in Surface Water (Marine)

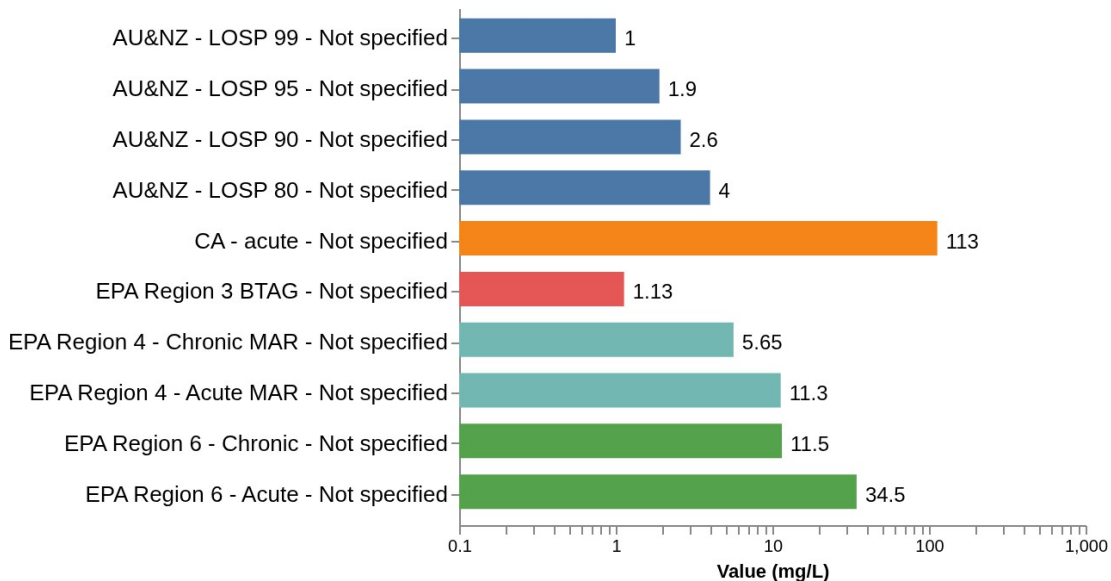


Table 129: Benchmark Values for Dichloroethylene, 1,1- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-35-4	Australia and New Zealand	Marine LOSP 99	Not specified	0.5000	83
75-35-4	Australia and New Zealand	Marine LOSP 95	Not specified	0.7000	83, 89
75-35-4	Australia and New Zealand	Marine LOSP 90	Not specified	0.9000	83
75-35-4	Australia and New Zealand	Marine LOSP 80	Not specified	1.3000	83
75-35-4	California	Saltwater acute	Not specified	224.0000	
75-35-4	EPA Region 3	BTAG – Marine	Not specified	2.2400	
75-35-4	EPA Region 4	Chronic Marine	Not specified	0.0032	
75-35-4	EPA Region 4	Acute Marine	Not specified	22.4000	
75-35-4	EPA Region 6	Saltwater Chronic	Not specified	25.0000	
75-35-4	EPA Region 6	Saltwater Acute	Not specified	75.0000	
75-35-4	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0032	

Benchmark Values for Dichloroethylene, 1,1- in Surface Water (Marine)

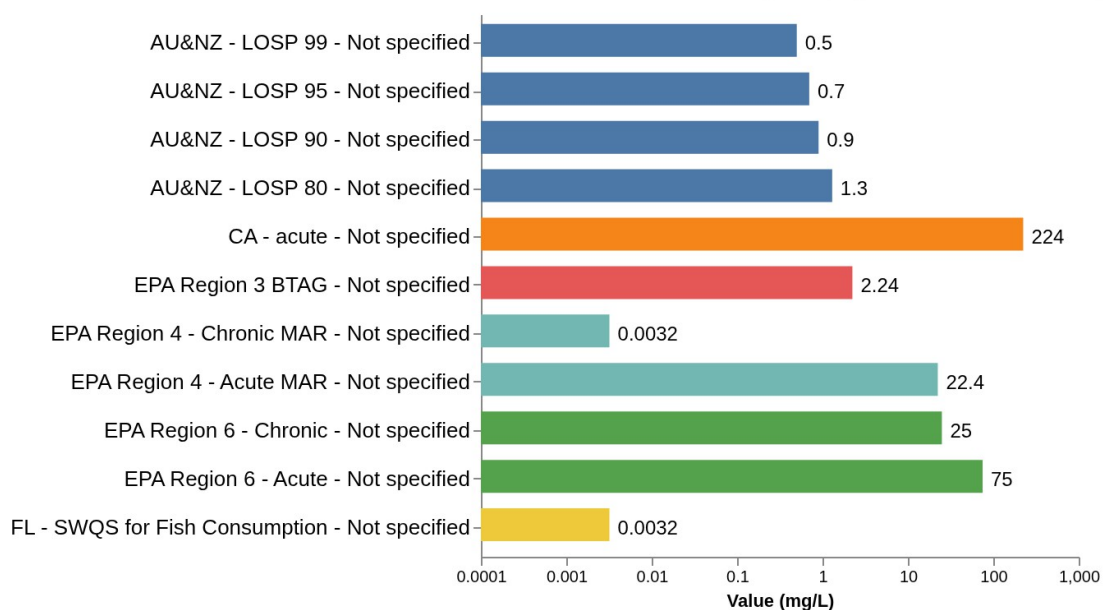


Table 130: Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
540-59-0	EPA Region 3	BTAG – Marine	Not specified	0.680
540-59-0	EPA Region 4	Chronic Marine	Not specified	0.818
540-59-0	EPA Region 4	Acute Marine	Not specified	3.393
540-59-0	EPA Region 6	Saltwater Chronic	Not specified	1.120
540-59-0	EPA Region 6	Saltwater Acute	Not specified	3.400

Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water (Marine)

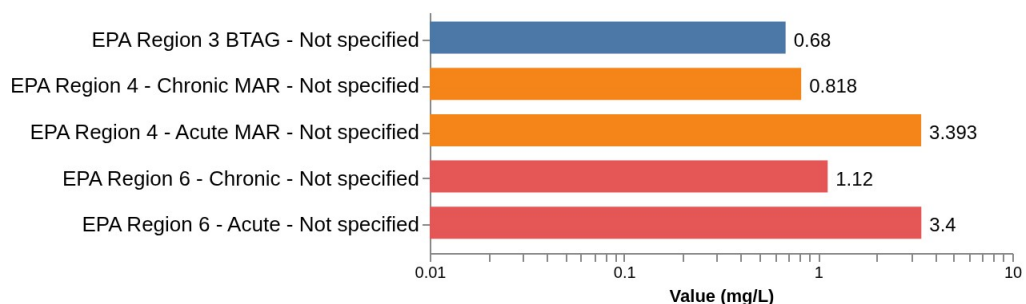


Table 131: Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
156-59-2	California	Saltwater acute	Not specified	224.000
156-59-2	EPA Region 4	Chronic Marine	Not specified	1.629
156-59-2	EPA Region 4	Acute Marine	Not specified	6.236

Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water (Marine)

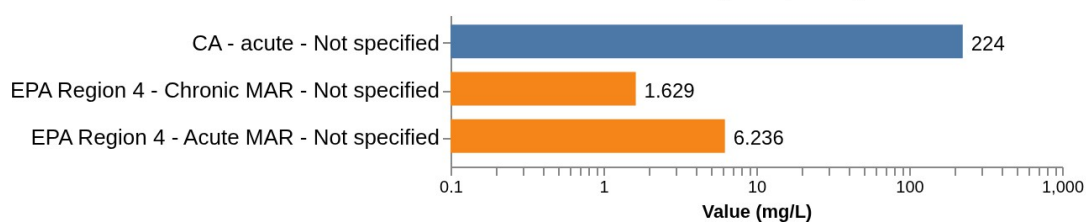


Table 132: Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
156-60-5	California	Saltwater acute	Not specified	224.000
156-60-5	EPA Region 4	Chronic Marine	Not specified	1.629
156-60-5	EPA Region 4	Acute Marine	Not specified	6.236

Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water (Marine)

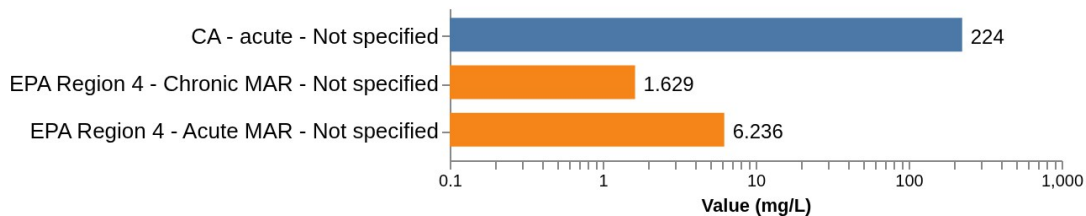


Table 133: Benchmark Values for Dichloroethylenes in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-4	California	Saltwater acute	Not specified	224.0

Benchmark Values for Dichloroethylenes in Surface Water (Marine)

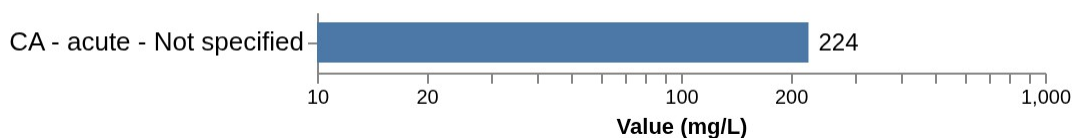


Table 134: Benchmark Values for Dichlorophenol, 2,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
576-24-9	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.031	82, 83, 99
576-24-9	California	Marine 6-month median	Not specified	0.001	219
576-24-9	California	Marine daily max	Not specified	0.004	219
576-24-9	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Dichlorophenol, 2,3- in Surface Water (Marine)

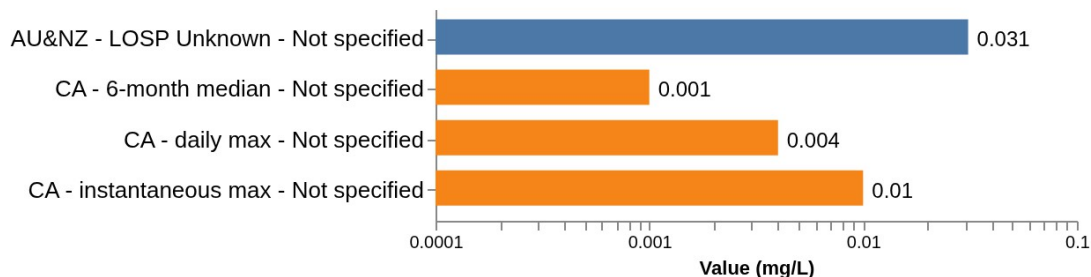


Table 135: Benchmark Values for Dichlorophenol, 2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-83-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.120	82, 87, 99
120-83-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.160	82, 83, 99
120-83-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.200	82, 83, 99
120-83-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.270	82, 83, 99
120-83-2	California	Marine 6-month median	Not specified	0.001	219
120-83-2	California	Marine daily max	Not specified	0.004	219
120-83-2	California	Marine instantaneous max	Not specified	0.010	219
120-83-2	EPA Region 4	Chronic Marine	Not specified	0.790	
120-83-2	EPA Region 4	Acute Marine	Not specified	1.352	
120-83-2	EPA Region 6	Saltwater Chronic	Not specified	0.220	
120-83-2	EPA Region 6	Saltwater Acute	Not specified	0.660	
120-83-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.790	

Benchmark Values for Dichlorophenol, 2,4- in Surface Water (Marine)

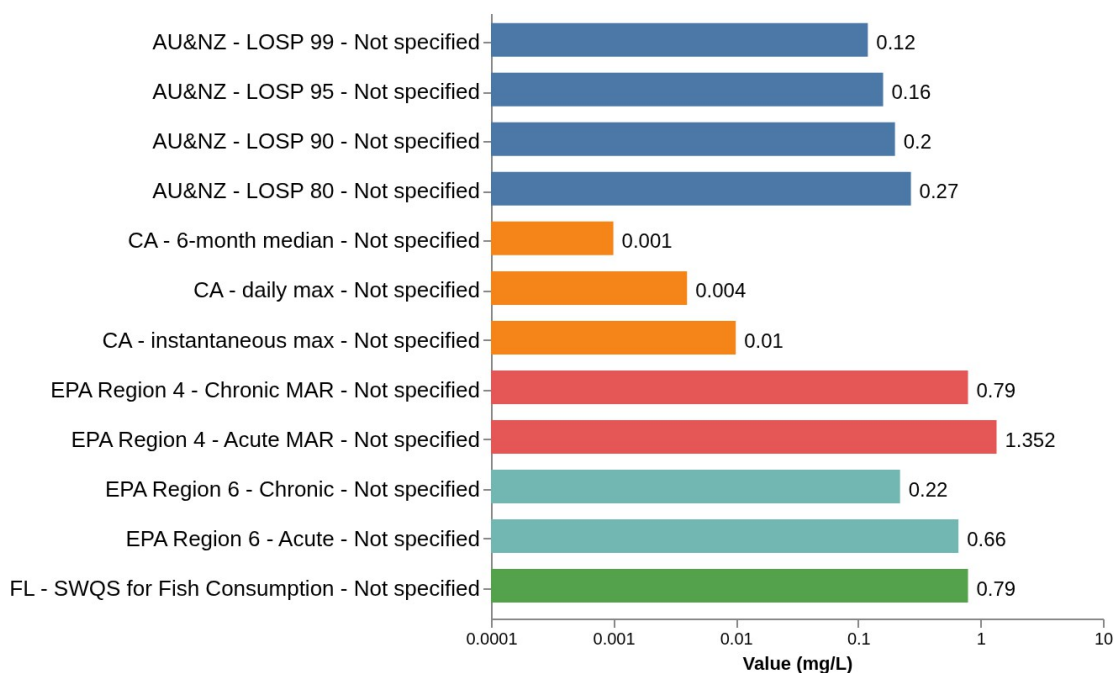


Table 136: Benchmark Values for Dichlorophenol, 2,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
583-78-8	California	Marine 6-month median	Not specified	0.001	219
583-78-8	California	Marine daily max	Not specified	0.004	219
583-78-8	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Dichlorophenol, 2,5- in Surface Water (Marine)

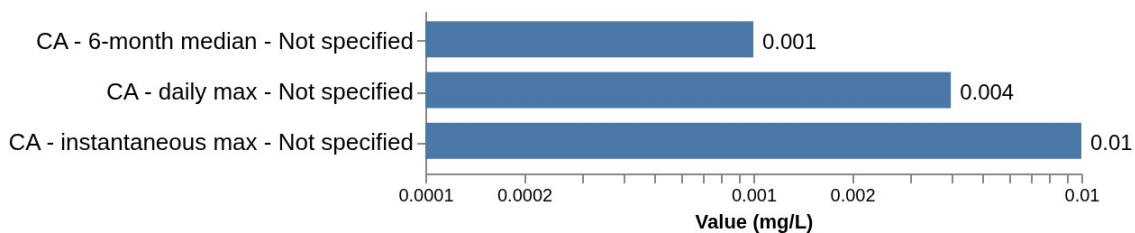


Table 137: Benchmark Values for Dichlorophenol, 2,6- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-65-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.034	82, 83, 99
87-65-0	California	Marine 6-month median	Not specified	0.001	219
87-65-0	California	Marine daily max	Not specified	0.004	219
87-65-0	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Dichlorophenol, 2,6- in Surface Water (Marine)

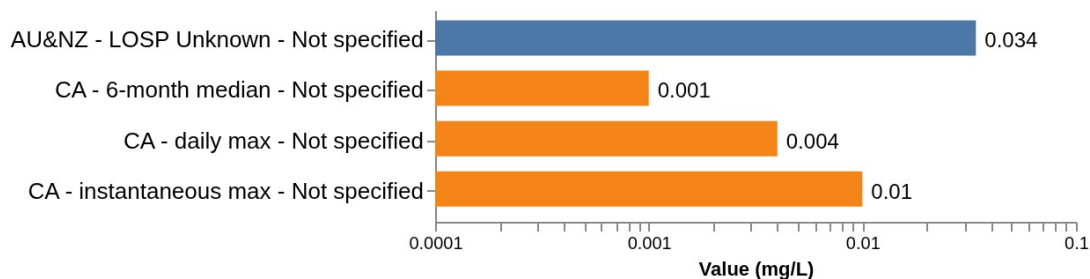


Table 138: Benchmark Values for Dichlorophenol, 3,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-77-2	California	Marine 6-month median	Not specified	0.001	219
95-77-2	California	Marine daily max	Not specified	0.004	219
95-77-2	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Dichlorophenol, 3,4- in Surface Water (Marine)

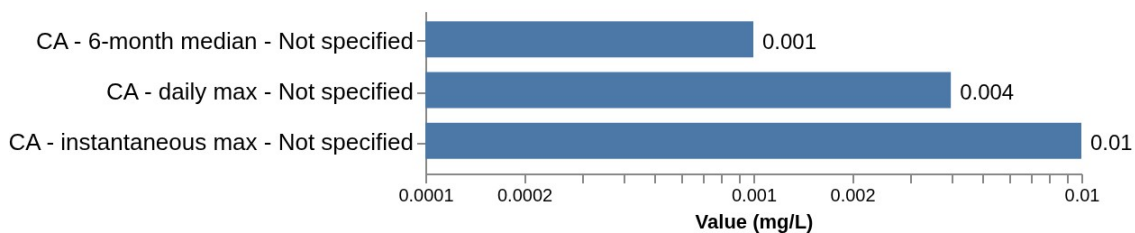


Table 139: Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
94-75-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.14	82, 88
94-75-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.28	82, 83
94-75-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.45	82, 83
94-75-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.83	82, 83
94-75-7	EPA Region 4	Chronic Marine	Not specified	0.07	

Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4- in Surface Water (Marine)

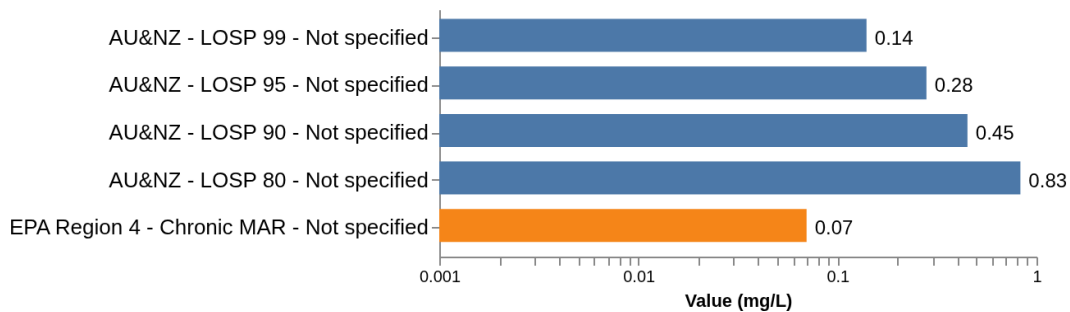


Table 140: Benchmark Values for Dichloropropane, 1,1 in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-99-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.3	83
78-99-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.5	83, 89
78-99-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.7	83
78-99-9	Australia and New Zealand	Marine LOSP 80	Not specified	1.0	83

Benchmark Values for Dichloropropane, 1,1 in Surface Water (Marine)

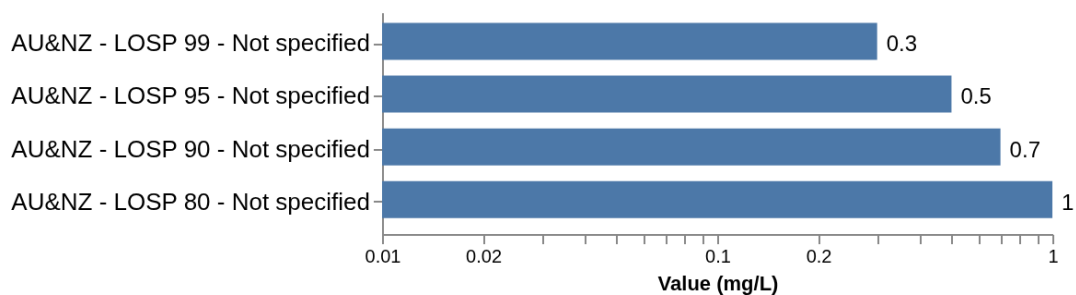


Table 141: Benchmark Values for Dichloropropane, 1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-87-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.600	83
78-87-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.900	83, 89
78-87-5	Australia and New Zealand	Marine LOSP 90	Not specified	1.200	83
78-87-5	Australia and New Zealand	Marine LOSP 80	Not specified	1.800	83
78-87-5	California	Saltwater chronic	Not specified	3.040	
78-87-5	California	Saltwater acute	Not specified	10.300	
78-87-5	EPA Region 3	BTAG – Marine	Not specified	2.400	
78-87-5	EPA Region 4	Chronic Marine	Not specified	1.064	
78-87-5	EPA Region 4	Acute Marine	Not specified	3.400	
78-87-5	EPA Region 6	Saltwater Chronic	Not specified	6.100	
78-87-5	EPA Region 6	Saltwater Acute	Not specified	18.300	

Benchmark Values for Dichloropropane, 1,2- in Surface Water (Marine)

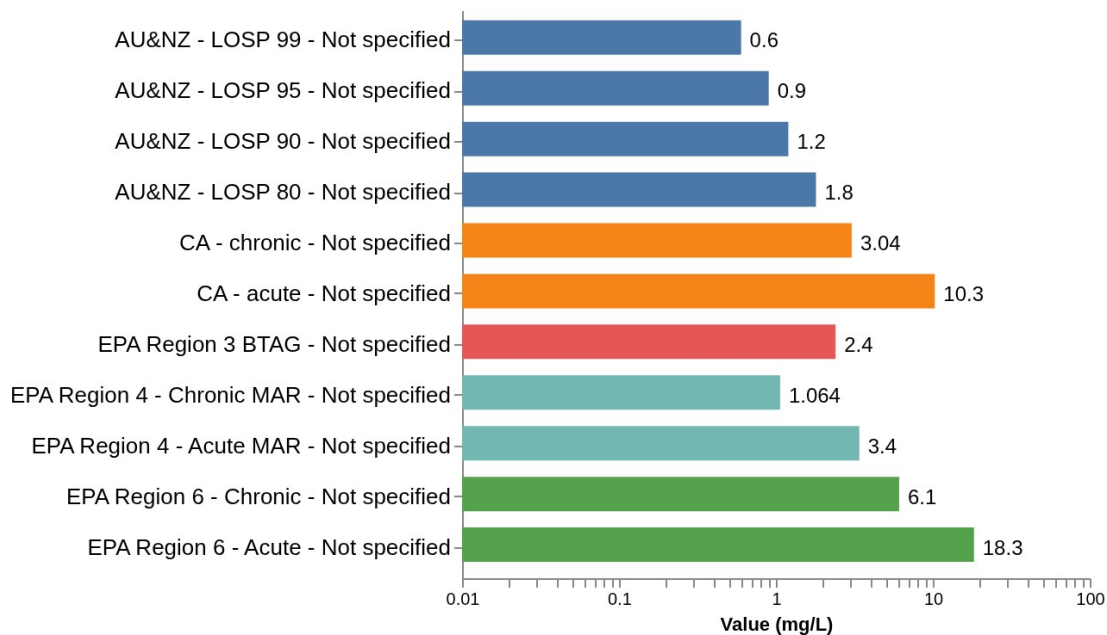


Table 142: Benchmark Values for Dichloropropane, 1,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
142-28-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.7	83
142-28-9	Australia and New Zealand	Marine LOSP 95	Not specified	1.1	83, 89
142-28-9	Australia and New Zealand	Marine LOSP 90	Not specified	1.4	83
142-28-9	Australia and New Zealand	Marine LOSP 80	Not specified	2.0	83

Benchmark Values for Dichloropropane, 1,3- in Surface Water (Marine)

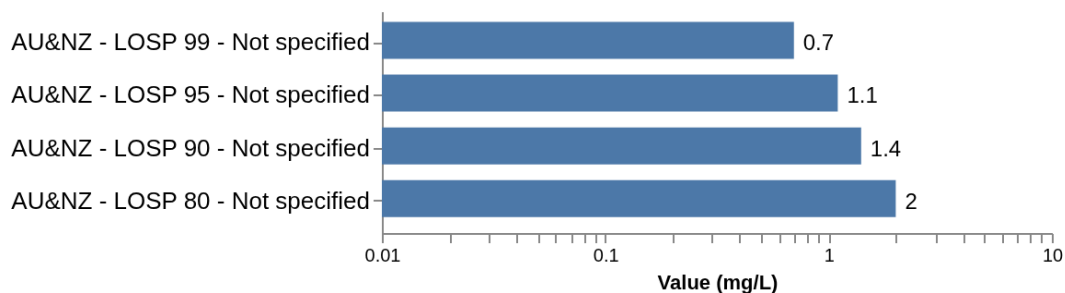


Table 143: Benchmark Values for Dichloropropanes in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
26638-19-7	California	Saltwater chronic	Not specified	3.04
26638-19-7	California	Saltwater acute	Not specified	10.30

Benchmark Values for Dichloropropanes in Surface Water (Marine)

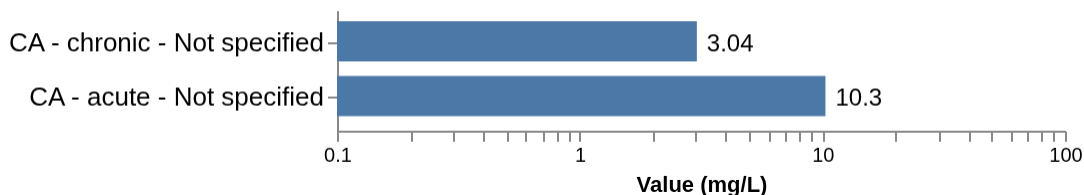


Table 144: Benchmark Values for Dichloropropene, 1,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
542-75-6	California	Saltwater acute	Not specified	0.7900
542-75-6	EPA Region 3	BTAG – Marine	Not specified	0.0079
542-75-6	EPA Region 4	Chronic Marine	Not specified	0.0395
542-75-6	EPA Region 4	Acute Marine	Not specified	0.0790
542-75-6	EPA Region 6	Saltwater Chronic	Not specified	0.0400
542-75-6	EPA Region 6	Saltwater Acute	Not specified	0.2370

Benchmark Values for Dichloropropene, 1,3- in Surface Water (Marine)

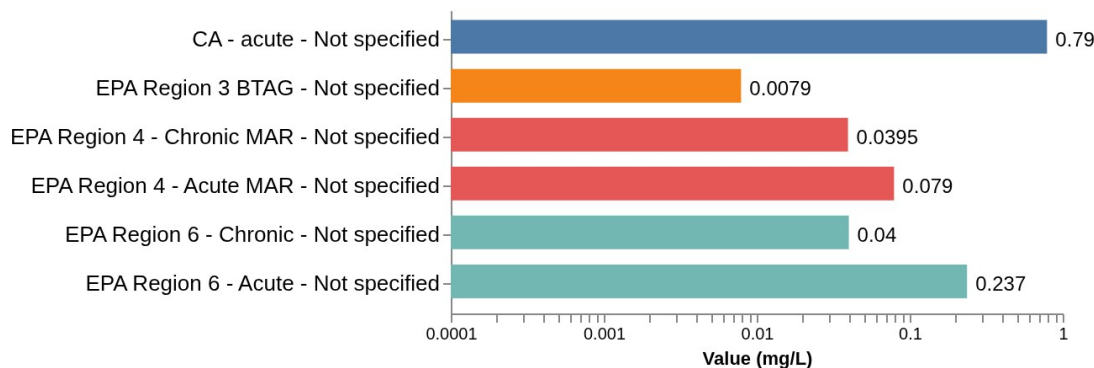


Table 145: Benchmark Values for Dichloropropenes in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-5	California	Saltwater acute	Not specified	0.79

Benchmark Values for Dichloropropenes in Surface Water (Marine)

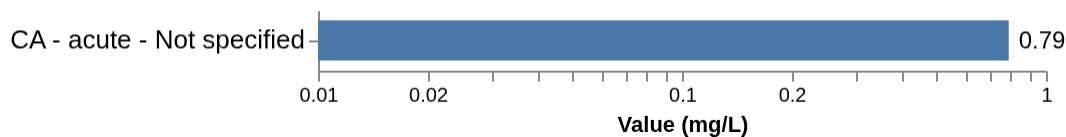


Table 146: Benchmark Values for Dicofol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
115-32-2	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0005	82, 83, 101

Benchmark Values for Dicofol in Surface Water (Marine)

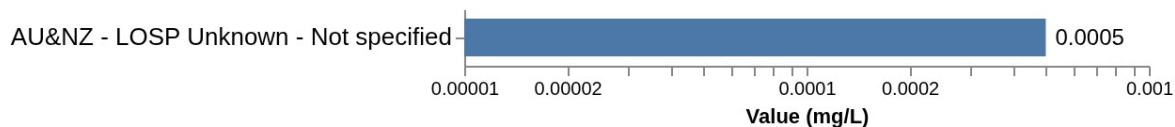


Table 147: Benchmark Values for Dieldrin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
60-57-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	1.000000e-05	82, 83, 101
60-57-1	California	Saltwater CCC, 4-day average	Not specified	1.900000e-06	
60-57-1	California	Saltwater instantaneous max	Not specified	7.100000e-04	
60-57-1	Delaware	Marine Chronic Criterion	Not specified	1.900000e-06	
60-57-1	Delaware	Marine Acute Criterion	Not specified	7.100000e-04	
60-57-1	EPA NRWQC	Saltwater CCC Chronic	Not specified	1.900000e-06	
60-57-1	EPA NRWQC	Saltwater CMC Acute	Not specified	7.100000e-04	
60-57-1	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	1.100000e-04	
60-57-1	EPA Region 3	BTAG – Marine	Not specified	1.100000e-04	
60-57-1	EPA Region 4	Chronic Marine	Aquatic only	2.000000e-06	7
60-57-1	EPA Region 4	Chronic Marine	Wildlife only	2.000000e-06	7
60-57-1	EPA Region 4	Acute Marine	Aquatic only	7.100000e-04	7
60-57-1	EPA Region 4	Acute Marine	Wildlife only	7.100000e-04	7
60-57-1	EPA Region 6	Saltwater Chronic	Not specified	2.000000e-06	
60-57-1	EPA Region 6	Saltwater Acute	Not specified	7.100000e-04	
60-57-1	Florida	SWQS for Fish Consumption in Marine water	Not specified	1.400000e-07	
60-57-1	New Jersey	Marine Chronic	Not specified	1.900000e-06	
60-57-1	New Jersey	Marine Acute	Not specified	7.100000e-04	

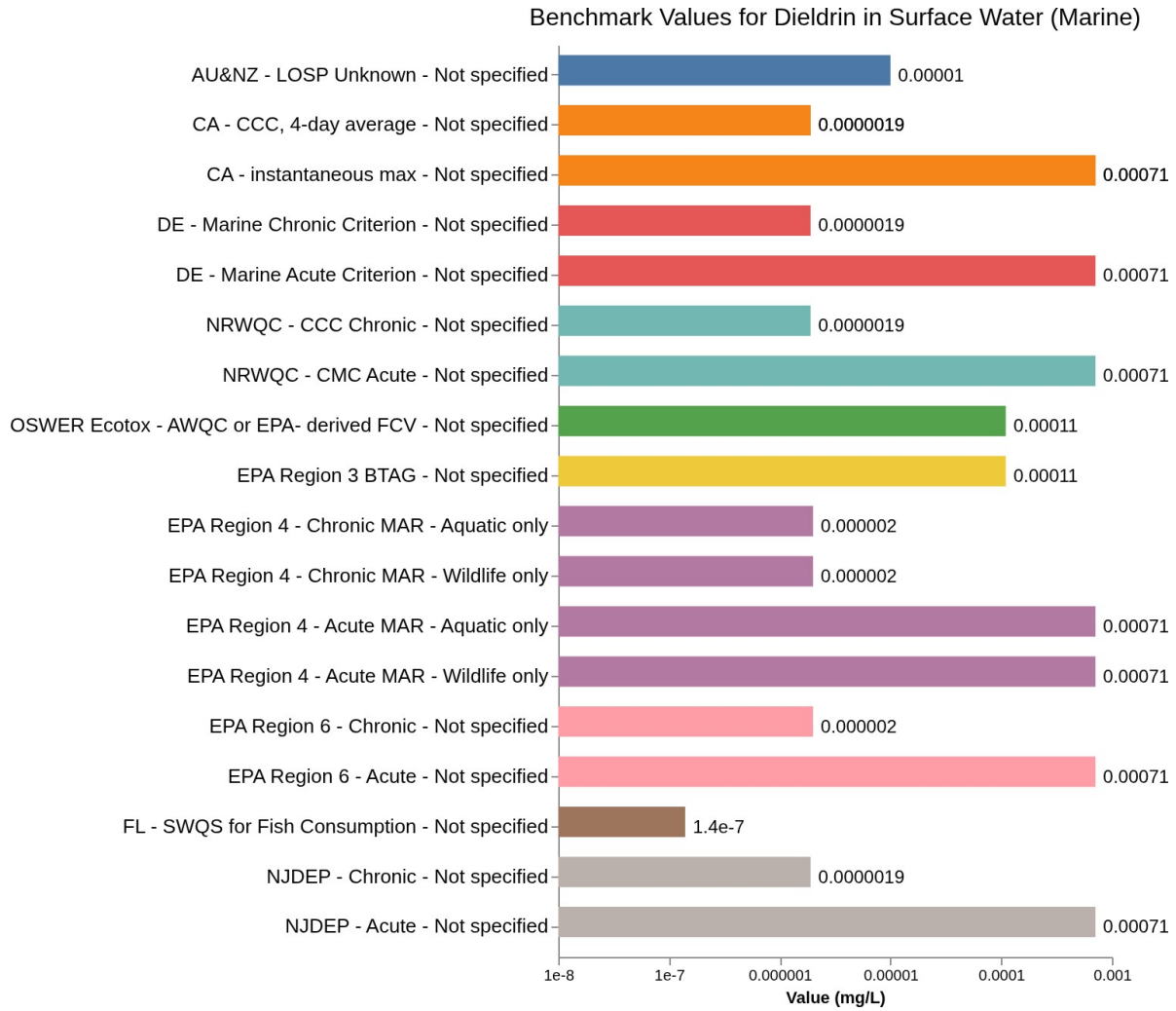


Table 148: Benchmark Values for Diethyl Phthalate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
84-66-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.9000	82, 84
84-66-2	Australia and New Zealand	Marine LOSP 95	Not specified	1.0000	82, 83
84-66-2	Australia and New Zealand	Marine LOSP 90	Not specified	1.1000	82, 83
84-66-2	Australia and New Zealand	Marine LOSP 80	Not specified	1.3000	82, 83
84-66-2	California	Saltwater other toxicity	Not specified	0.0034	
84-66-2	California	Saltwater acute	Not specified	2.9440	
84-66-2	EPA Region 3	BTAG – Marine	Not specified	0.0759	
84-66-2	EPA Region 4	Chronic Marine	Not specified	0.0590	
84-66-2	EPA Region 4	Acute Marine	Not specified	2.1390	
84-66-2	EPA Region 6	Saltwater Chronic	Not specified	0.4420	
84-66-2	EPA Region 6	Saltwater Acute	Not specified	2.6530	

Benchmark Values for Diethyl Phthalate in Surface Water (Marine)

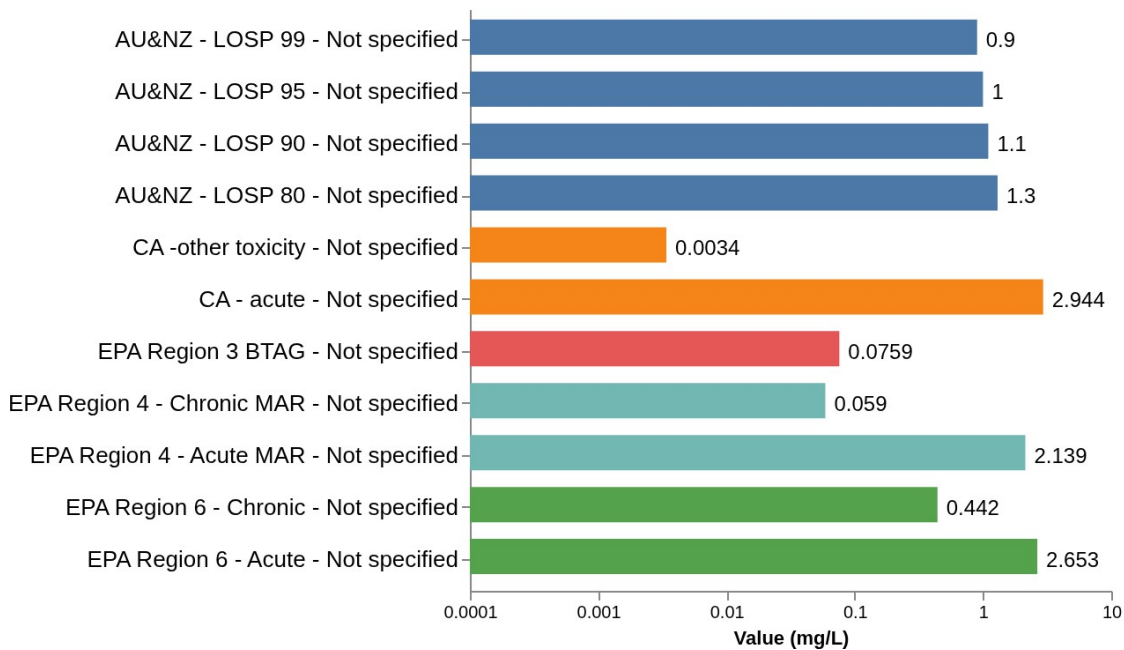


Table 149: Benchmark Values for Dimethoate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
60-51-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.00010	82, 87
60-51-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.00015	82, 83
60-51-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.00020	82, 83
60-51-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.00030	82, 83
60-51-5	EPA Region 4	Acute Marine	Not specified	0.00200	

Benchmark Values for Dimethoate in Surface Water (Marine)

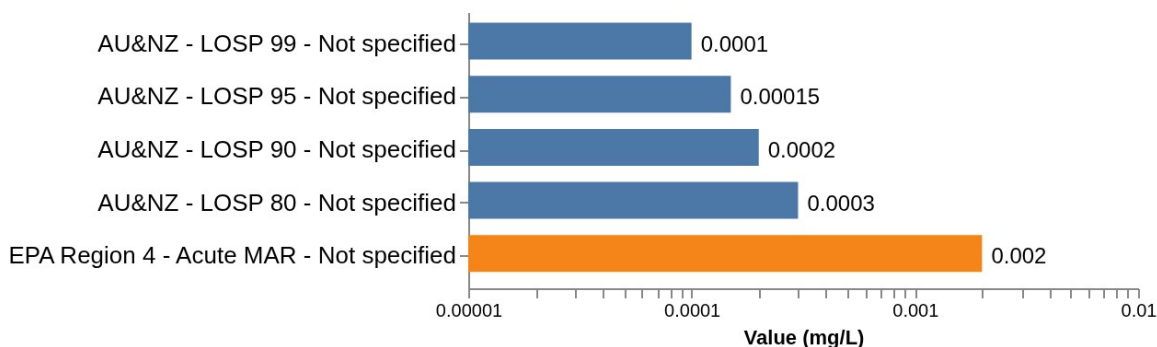


Table 150: Benchmark Values for Dimethylbenz[a]anthracene, 7,12- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
57-97-6	California	Saltwater acute	Not specified	0.3

Benchmark Values for Dimethylbenz[a]anthracene, 7,12- in Surface Water (Marine)

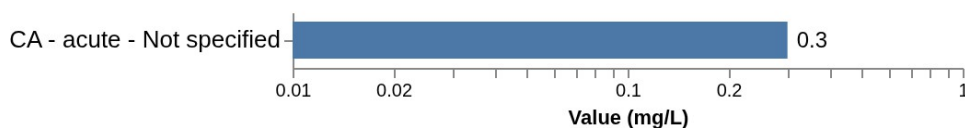


Table 151: Benchmark Values for Dimethylformamide in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68-12-2	Australia and New Zealand	Marine LOSP Unknown	Not specified	1.0	82, 83

Benchmark Values for Dimethylformamide in Surface Water (Marine)



Table 152: Benchmark Values for Dimethylphenol, 2,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
526-75-0	EPA Region 4	Chronic Marine	Not specified	0.550
526-75-0	EPA Region 4	Acute Marine	Not specified	1.446

Benchmark Values for Dimethylphenol, 2,3- in Surface Water (Marine)

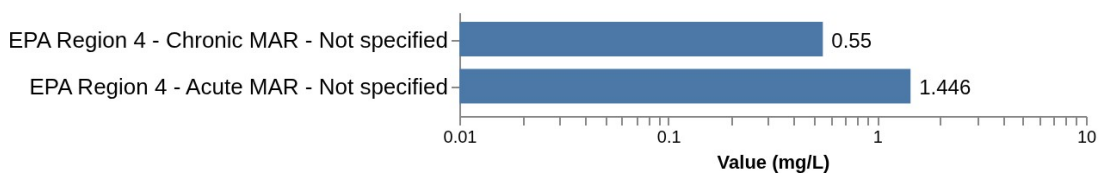


Table 153: Benchmark Values for Dimethylphenol, 2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
105-67-9	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.002	82, 83
105-67-9	California	Marine 6-month median	Not specified	0.030	218
105-67-9	California	Marine daily max	Not specified	0.120	218
105-67-9	California	Marine instantaneous max	Not specified	0.300	219
105-67-9	EPA Region 4	Chronic Marine	Not specified	0.193	
105-67-9	EPA Region 4	Acute Marine	Not specified	0.800	
105-67-9	EPA Region 6	Saltwater Chronic	Not specified	0.130	
105-67-9	EPA Region 6	Saltwater Acute	Not specified	0.400	

Benchmark Values for Dimethylphenol, 2,4- in Surface Water (Marine)

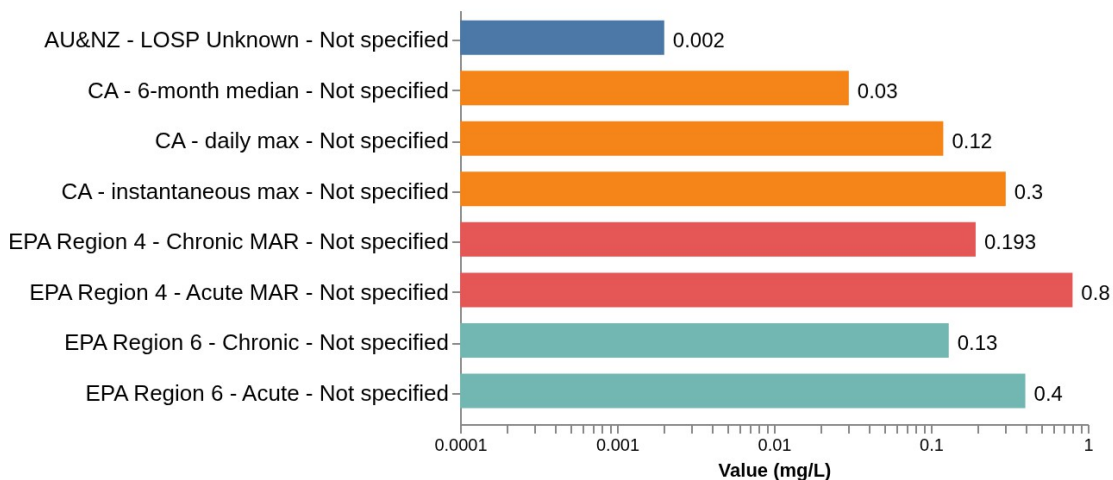


Table 154: Benchmark Values for Dimethylphthalate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
131-11-3	Australia and New Zealand	Marine LOSP 99	Not specified	3.0000	82, 87
131-11-3	Australia and New Zealand	Marine LOSP 95	Not specified	3.7000	82, 83
131-11-3	Australia and New Zealand	Marine LOSP 90	Not specified	4.3000	82, 83
131-11-3	Australia and New Zealand	Marine LOSP 80	Not specified	5.1000	82, 83
131-11-3	California	Saltwater other toxicity	Not specified	0.0034	
131-11-3	California	Saltwater acute	Not specified	2.9440	
131-11-3	EPA Region 3	BTAG – Marine	Not specified	0.5800	
131-11-3	EPA Region 4	Chronic Marine	Not specified	3.2950	
131-11-3	EPA Region 4	Acute Marine	Not specified	16.5000	
131-11-3	EPA Region 6	Saltwater Chronic	Not specified	2.9000	
131-11-3	EPA Region 6	Saltwater Acute	Not specified	17.4000	

Benchmark Values for Dimethylphthalate in Surface Water (Marine)

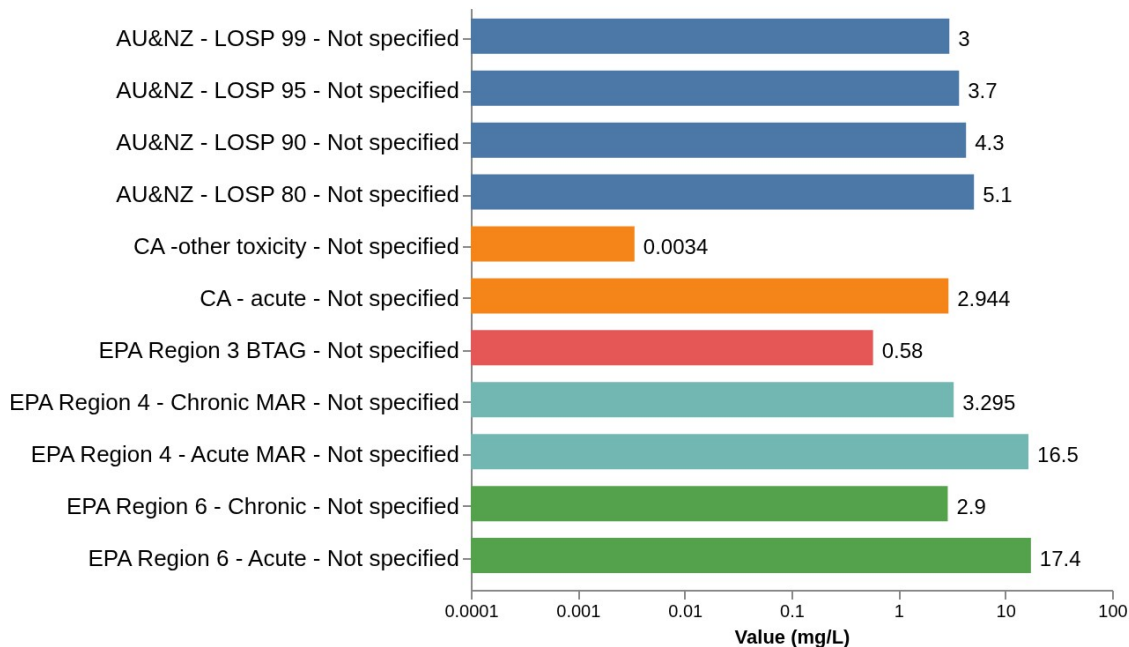


Table 155: Benchmark Values for Dimethylterephthalate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
120-61-6	California	Saltwater other toxicity	Not specified	0.0034
120-61-6	California	Saltwater acute	Not specified	2.9440

Benchmark Values for Dimethylterephthalate in Surface Water (Marine)

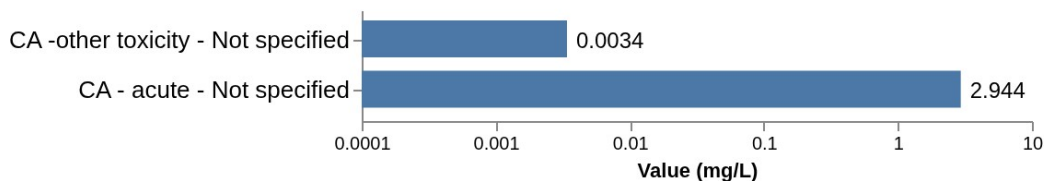


Table 156: Benchmark Values for Dinitroaniline, 3,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
618-87-1	EPA Region 4	Chronic Marine	Not specified	0.06
618-87-1	EPA Region 4	Acute Marine	Not specified	0.23

Benchmark Values for Dinitroaniline, 3,5- in Surface Water (Marine)

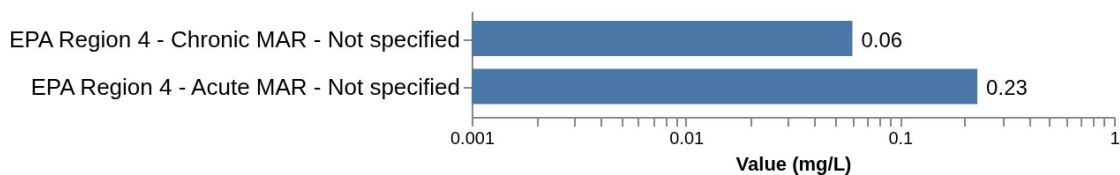


Table 157: Benchmark Values for Dinitrobenzene, 1,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-65-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.013	82, 83
99-65-0	EPA Region 4	Chronic Marine	Not specified	0.020	
99-65-0	EPA Region 4	Acute Marine	Not specified	0.108	
99-65-0	EPA Region 6	Saltwater Chronic	Not specified	2.400	
99-65-0	EPA Region 6	Saltwater Acute	Not specified	4.400	

Benchmark Values for Dinitrobenzene, 1,3- in Surface Water (Marine)

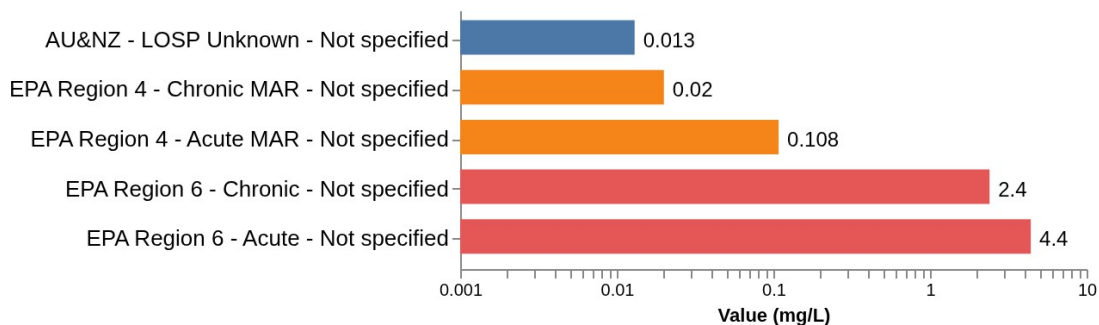
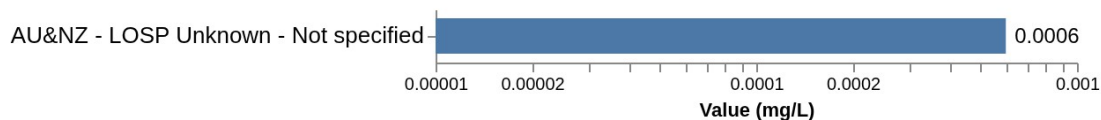
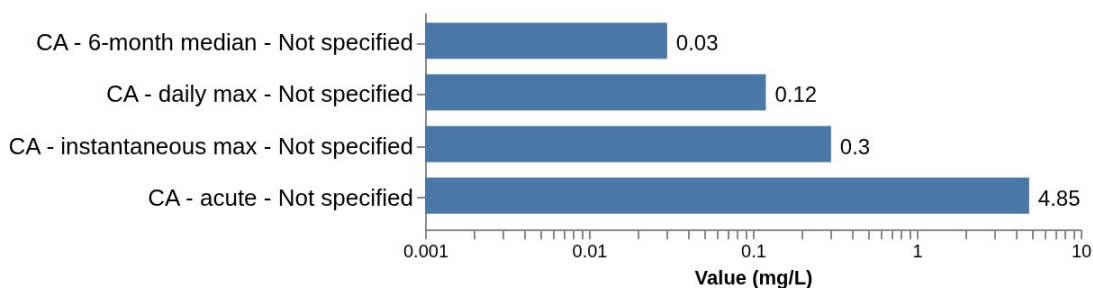


Table 158: Benchmark Values for Dinitrobenzene, 1,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-25-4	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0006	82, 83

Benchmark Values for Dinitrobenzene, 1,4- in Surface Water (Marine)**Table 159: Benchmark Values for Dinitro-o-cresol, 4,6- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
534-52-1	California	Marine 6-month median	Not specified	0.03	218
534-52-1	California	Marine daily max	Not specified	0.12	218
534-52-1	California	Marine instantaneous max	Not specified	0.30	218
534-52-1	California	Saltwater acute	Not specified	4.85	

Benchmark Values for Dinitro-o-cresol, 4,6- in Surface Water (Marine)**Table 160: Benchmark Values for Dinitro-o-cyclohexyl Phenol, 4,6- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
131-89-5	California	Marine 6-month median	Not specified	0.03	218
131-89-5	California	Marine daily max	Not specified	0.12	218
131-89-5	California	Marine instantaneous max	Not specified	0.30	218

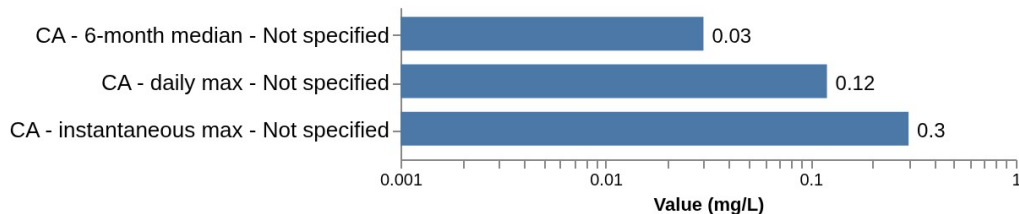
Benchmark Values for Dinitro-o-cyclohexyl Phenol, 4,6- in Surface Water (Marine)

Table 161: Benchmark Values for Dinitrophenol, 2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
51-28-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.0130	82, 83
51-28-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.0450	82, 83
51-28-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.0800	82, 83
51-28-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.1400	82, 83
51-28-5	California	Marine 6-month median	Not specified	0.0300	218
51-28-5	California	Marine daily max	Not specified	0.1200	218
51-28-5	California	Marine instantaneous max	Not specified	0.3000	219
51-28-5	California	Saltwater acute	Not specified	4.8500	
51-28-5	EPA Region 3	BTAG – Marine	Not specified	0.0485	
51-28-5	EPA Region 4	Chronic Marine	Not specified	0.0140	
51-28-5	EPA Region 4	Acute Marine	Not specified	2.4250	
51-28-5	EPA Region 6	Saltwater Chronic	Not specified	1.3300	
51-28-5	EPA Region 6	Saltwater Acute	Not specified	3.9900	
51-28-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	14.2600	

Benchmark Values for Dinitrophenol, 2,4- in Surface Water (Marine)

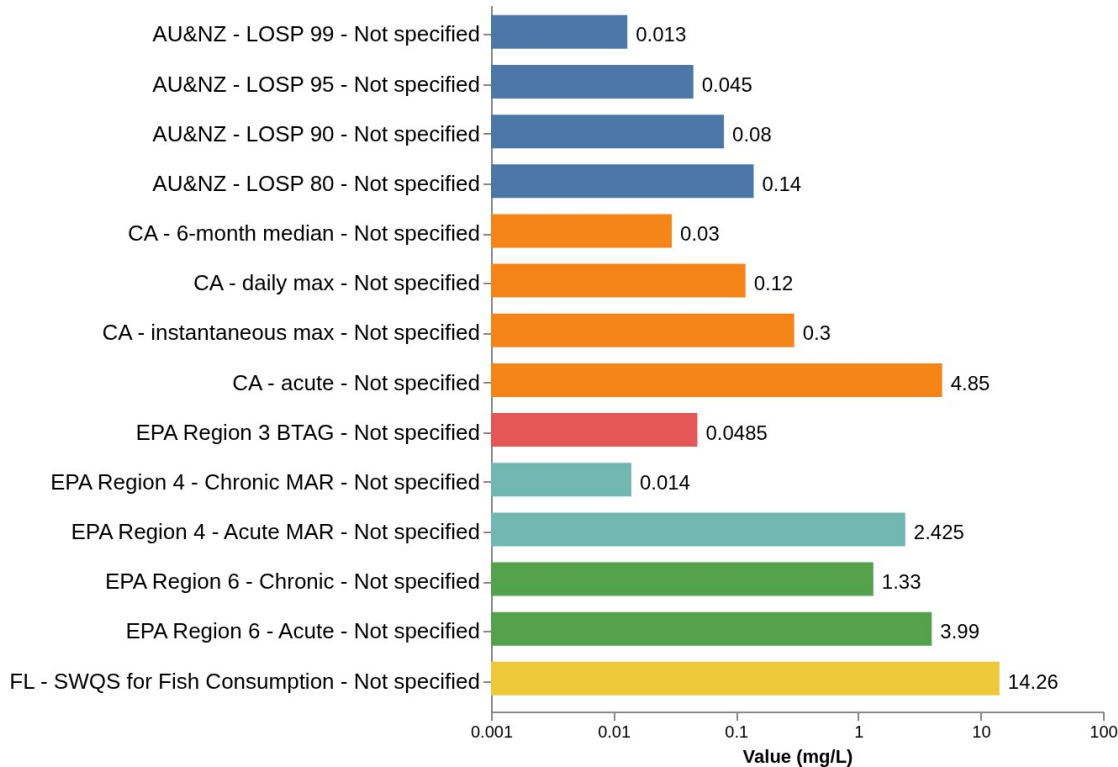


Table 162: Benchmark Values for Dinitrophenols in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
25550-58-7	California	Marine 6-month median	Not specified	0.03	218
25550-58-7	California	Marine daily max	Not specified	0.12	218
25550-58-7	California	Marine instantaneous max	Not specified	0.30	218
25550-58-7	California	Saltwater acute	Not specified	4.85	

Benchmark Values for Dinitrophenols in Surface Water (Marine)

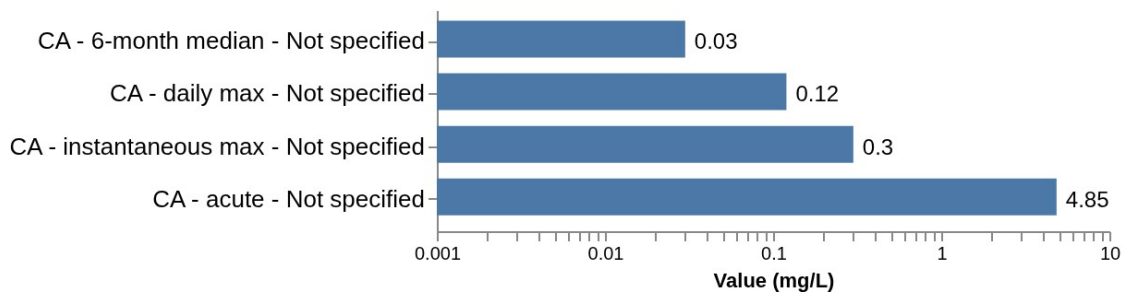


Table 163: Benchmark Values for Dinitrotoluene, 2,3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
602-01-7	EPA Region 4	Chronic Marine	Not specified	0.036
602-01-7	EPA Region 4	Acute Marine	Not specified	0.295

Benchmark Values for Dinitrotoluene, 2,3- in Surface Water (Marine)

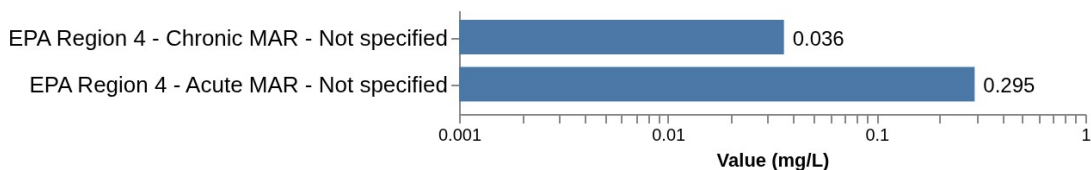


Table 164: Benchmark Values for Dinitrotoluene, 2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-14-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.0160	83
121-14-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.0650	82, 83
121-14-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.1300	82, 83
121-14-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.2500	82, 83
121-14-2	California	Saltwater other toxicity	Not specified	0.3700	
121-14-2	California	Saltwater acute	Not specified	0.5900	
121-14-2	EPA Region 4	Chronic Marine	Not specified	0.0091	
121-14-2	EPA Region 4	Acute Marine	Not specified	0.2000	
121-14-2	EPA Region 6	Saltwater Chronic	Not specified	0.2200	
121-14-2	EPA Region 6	Saltwater Acute	Not specified	1.3200	
121-14-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0091	

Benchmark Values for Dinitrotoluene, 2,4- in Surface Water (Marine)

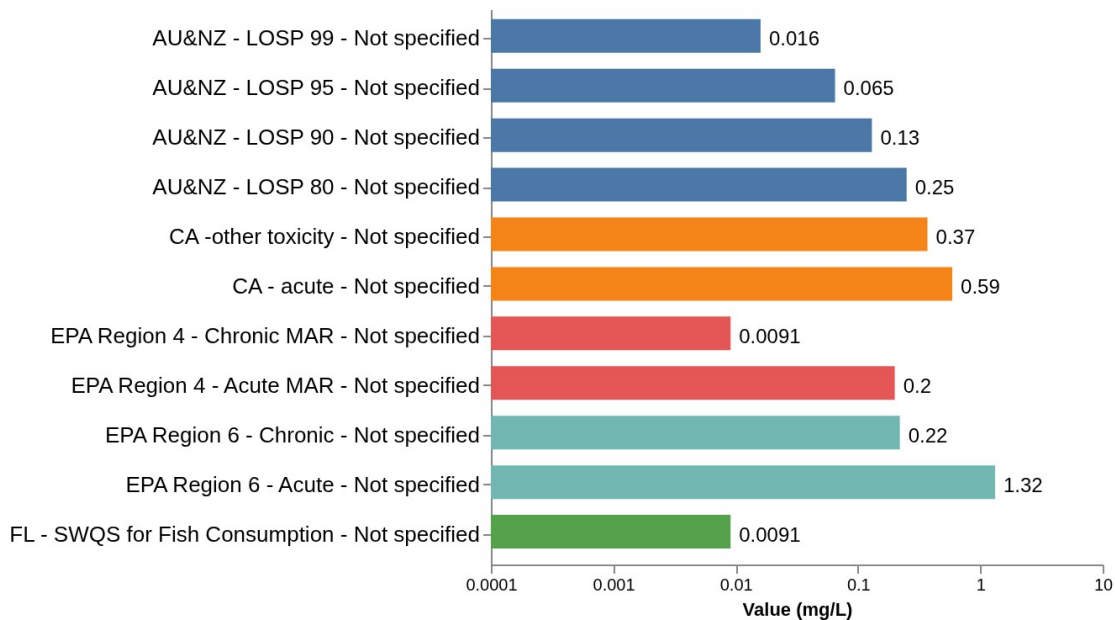
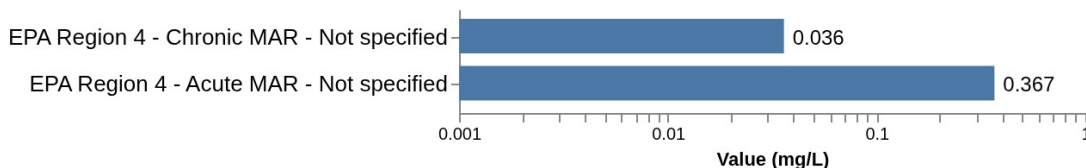
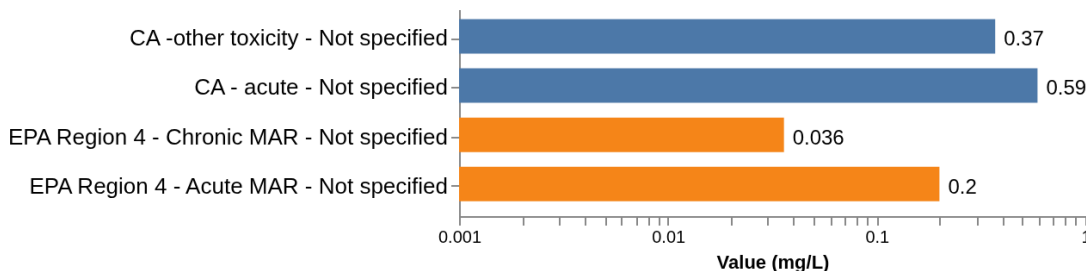


Table 165: Benchmark Values for Dinitrotoluene, 2,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
619-15-8	EPA Region 4	Chronic Marine	Not specified	0.036
619-15-8	EPA Region 4	Acute Marine	Not specified	0.367

Benchmark Values for Dinitrotoluene, 2,5- in Surface Water (Marine)**Table 166: Benchmark Values for Dinitrotoluene, 2,6- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
606-20-2	California	Saltwater other toxicity	Not specified	0.370
606-20-2	California	Saltwater acute	Not specified	0.590
606-20-2	EPA Region 4	Chronic Marine	Not specified	0.036
606-20-2	EPA Region 4	Acute Marine	Not specified	0.200

Benchmark Values for Dinitrotoluene, 2,6- in Surface Water (Marine)**Table 167: Benchmark Values for Dinitrotoluene, 2-Amino-4,6- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
35572-78-2	EPA Region 4	Chronic Marine	Not specified	0.020
35572-78-2	EPA Region 4	Acute Marine	Not specified	0.175
35572-78-2	EPA Region 6	Saltwater Chronic	Not specified	0.500
35572-78-2	EPA Region 6	Saltwater Acute	Not specified	1.500

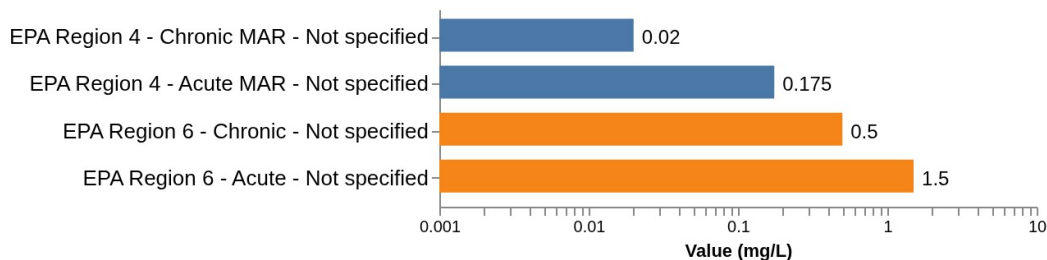
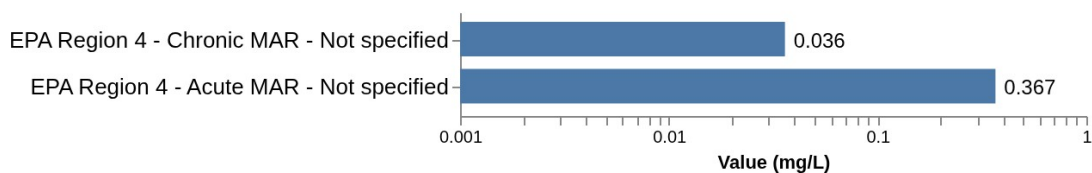
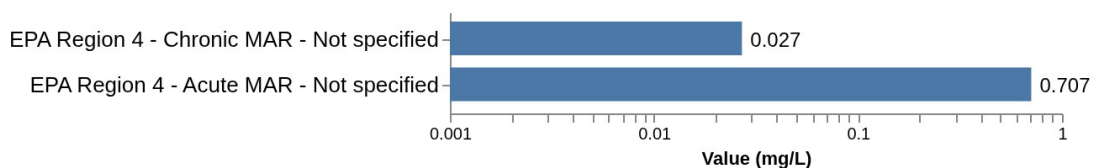
Benchmark Values for Dinitrotoluene, 2-Amino-4,6- in Surface Water (Marine)

Table 168: Benchmark Values for Dinitrotoluene, 3,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
618-85-9	EPA Region 4	Chronic Marine	Not specified	0.036
618-85-9	EPA Region 4	Acute Marine	Not specified	0.367

Benchmark Values for Dinitrotoluene, 3,5- in Surface Water (Marine)**Table 169: Benchmark Values for Dinitrotoluene, 4-Amino-2,6- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
19406-51-0	EPA Region 4	Chronic Marine	Not specified	0.027
19406-51-0	EPA Region 4	Acute Marine	Not specified	0.707

Benchmark Values for Dinitrotoluene, 4-Amino-2,6- in Surface Water (Marine)**Table 170: Benchmark Values for Dinitrotoluene, Technical grade in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
25321-14-6	California	Saltwater other toxicity	Not specified	0.37
25321-14-6	California	Saltwater acute	Not specified	0.59

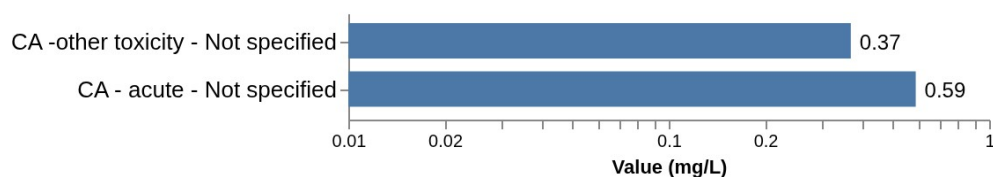
Benchmark Values for Dinitrotoluene, Technical grade in Surface Water (Marine)

Table 171: Benchmark Values for Dioxane, 1,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
123-91-1	EPA Region 4	Chronic Marine	Not specified	200.733
123-91-1	EPA Region 4	Acute Marine	Not specified	617.500

Benchmark Values for Dioxane, 1,4- in Surface Water (Marine)

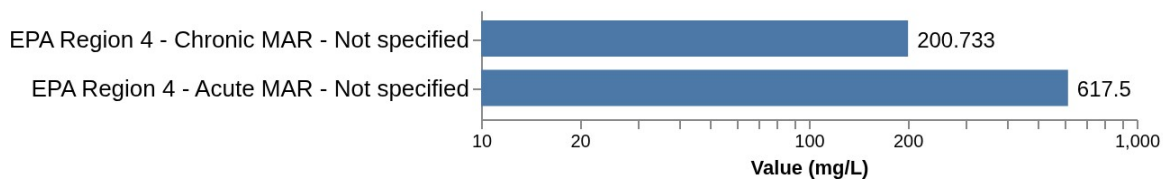


Table 172: Benchmark Values for Diphenylhydrazine, 1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
122-66-7	EPA Region 4	Chronic Marine	Not specified	0.03
122-66-7	EPA Region 4	Acute Marine	Not specified	0.11

Benchmark Values for Diphenylhydrazine, 1,2- in Surface Water (Marine)

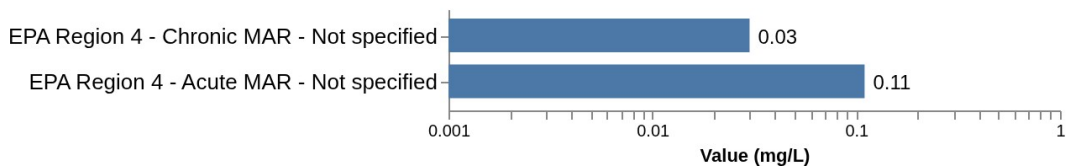


Table 173: Benchmark Values for Diquat in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2764-72-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.00001	82, 87
2764-72-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.00140	82, 83
2764-72-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.01000	82, 83
2764-72-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.08000	82, 83
2764-72-9	EPA Region 4	Chronic Marine	Not specified	0.01100	
2764-72-9	EPA Region 4	Acute Marine	Not specified	0.02100	

Benchmark Values for Diquat in Surface Water (Marine)

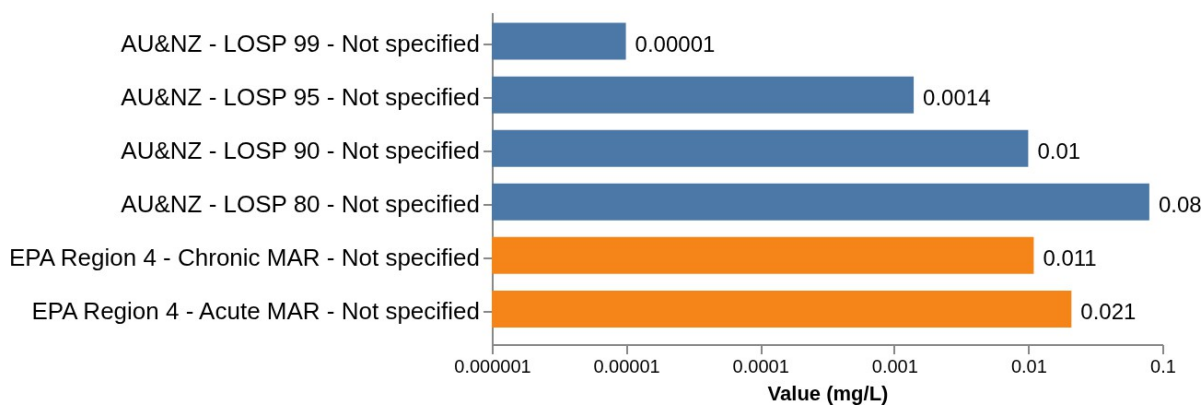


Table 174: Benchmark Values for Diuron in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
330-54-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0002	82, 83

Benchmark Values for Diuron in Surface Water (Marine)

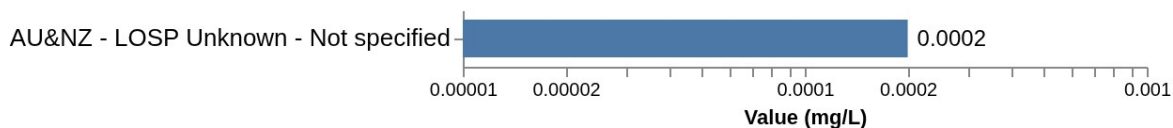


Table 175: Benchmark Values for Dodecyl benzenesulfonic acid in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
27176-87-0	EPA Region 3	BTAG – Marine	Not specified	0.058
27176-87-0	EPA Region 6	Saltwater Chronic	Not specified	0.058
27176-87-0	EPA Region 6	Saltwater Acute	Not specified	1.754

Benchmark Values for Dodecyl benzenesulfonic acid in Surface Water (Marine)

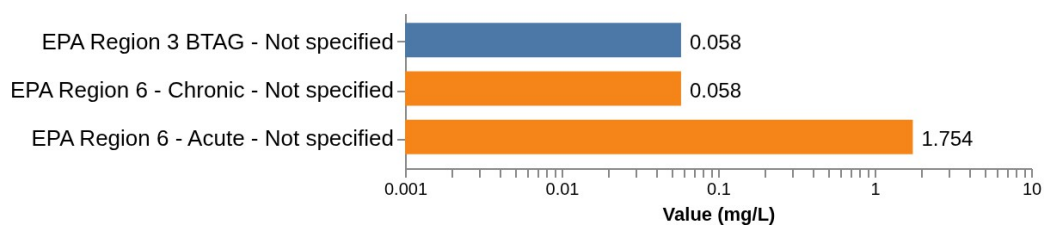


Table 176: Benchmark Values for Endosulfan I in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
959-98-8	California	Saltwater CCC, 4-day average	Not specified	0.000009	
959-98-8	California	Marine 6-month median	Not specified	0.000009	222
959-98-8	California	Marine daily max	Not specified	0.000018	222
959-98-8	California	Marine instantaneous max	Not specified	0.000027	222
959-98-8	California	Saltwater instantaneous max	Not specified	0.000034	
959-98-8	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000009	
959-98-8	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000034	
959-98-8	EPA Region 6	Saltwater Chronic	Not specified	0.000009	
959-98-8	EPA Region 6	Saltwater Acute	Not specified	0.000034	
959-98-8	New Jersey	Marine Chronic	Not specified	0.000009	
959-98-8	New Jersey	Marine Acute	Not specified	0.000034	

Benchmark Values for Endosulfan I in Surface Water (Marine)

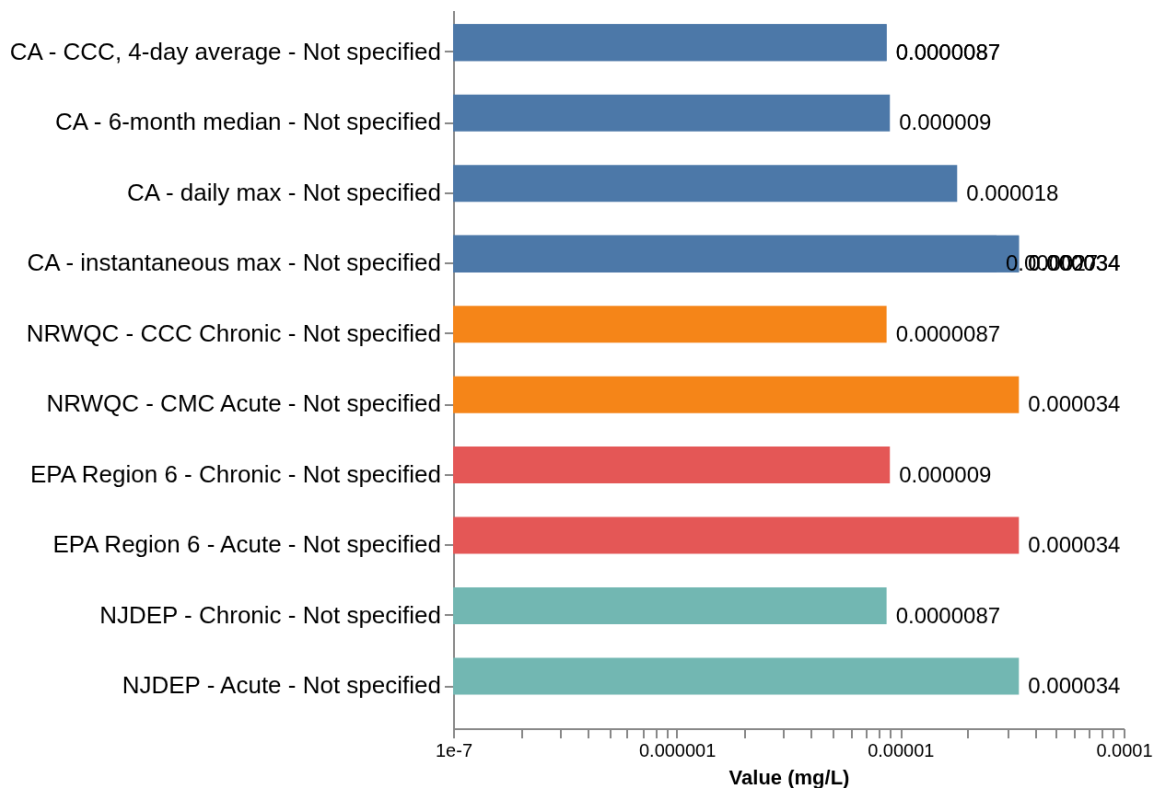


Table 177: Benchmark Values for Endosulfan II in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
33213-65-9	California	Saltwater CCC, 4-day average	Not specified	0.000009	
33213-65-9	California	Marine 6-month median	Not specified	0.000009	222
33213-65-9	California	Marine daily max	Not specified	0.000018	222
33213-65-9	California	Marine instantaneous max	Not specified	0.000027	222
33213-65-9	California	Saltwater instantaneous max	Not specified	0.000034	
33213-65-9	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000009	
33213-65-9	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000034	
33213-65-9	EPA Region 6	Saltwater Chronic	Not specified	0.000009	
33213-65-9	EPA Region 6	Saltwater Acute	Not specified	0.000034	
33213-65-9	New Jersey	Marine Chronic	Not specified	0.000009	
33213-65-9	New Jersey	Marine Acute	Not specified	0.000034	

Benchmark Values for Endosulfan II in Surface Water (Marine)

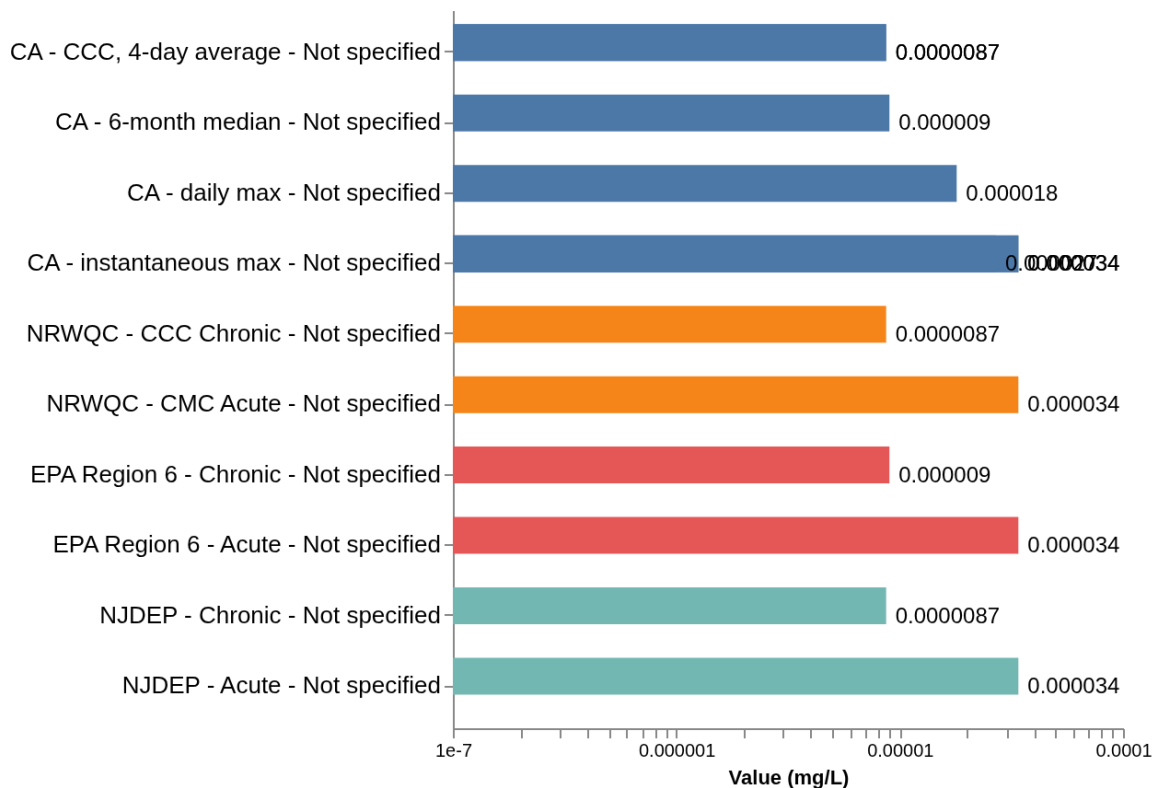


Table 178: Benchmark Values for Endosulfan Sulfate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1031-07-8	California	Saltwater 24-hour average	Not specified	0.000009	
1031-07-8	California	Marine 6-month median	Not specified	0.000009	222
1031-07-8	California	Marine daily max	Not specified	0.000018	222
1031-07-8	California	Marine instantaneous max	Not specified	0.000027	222
1031-07-8	EPA Region 3	BTAG – Marine	Not specified	0.000009	
1031-07-8	EPA Region 4	Chronic Marine	Not specified	0.000009	
1031-07-8	EPA Region 4	Acute Marine	Not specified	0.000030	
1031-07-8	EPA Region 6	Saltwater Chronic	Not specified	0.000009	
1031-07-8	EPA Region 6	Saltwater Acute	Not specified	0.000034	

Benchmark Values for Endosulfan Sulfate in Surface Water (Marine)

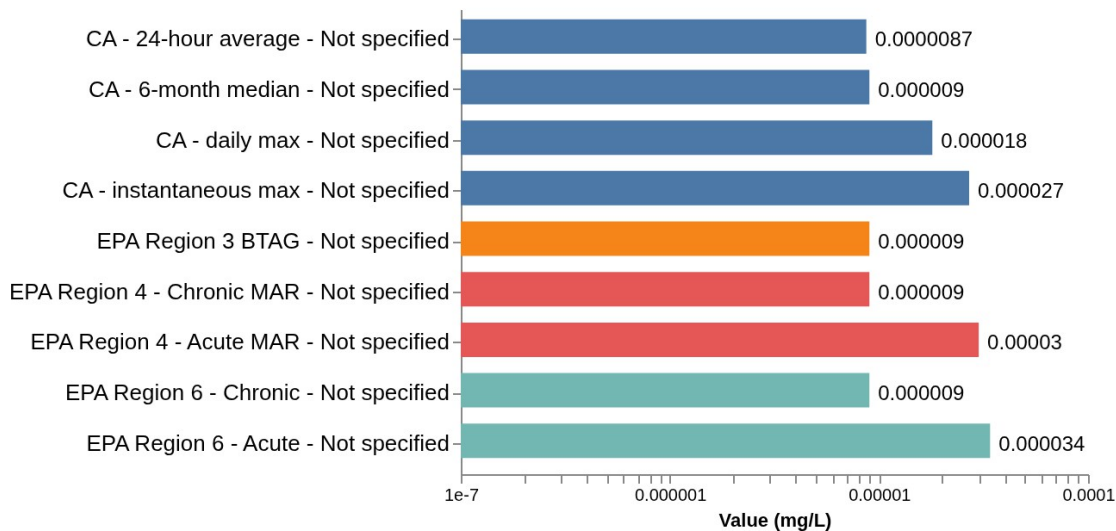


Table 179: Benchmark Values for Endosulfan in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
115-29-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.000005	88, 89, 97
115-29-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.000010	88, 97
115-29-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.000020	88, 97
115-29-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.000050	88, 92, 97
115-29-7	California	Marine 6-month median	Not specified	0.000009	222
115-29-7	California	Marine daily max	Not specified	0.000018	222
115-29-7	California	Marine instantaneous max	Not specified	0.000027	222
115-29-7	Canada	Marine Long Term	Not specified	0.000002	
115-29-7	Canada	Marine Short Term	Not specified	0.000090	
115-29-7	Delaware	Marine Chronic Criterion	Not specified	0.000009	
115-29-7	Delaware	Marine Acute Criterion	Not specified	0.000034	
115-29-7	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000009	
115-29-7	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000034	
115-29-7	EPA Region 3	BTAG – Marine	Not specified	0.000001	
115-29-7	EPA Region 4	Chronic Marine	Not specified	0.000009	
115-29-7	EPA Region 4	Acute Marine	Not specified	0.000030	
115-29-7	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000009	
115-29-7	New Jersey	Marine Chronic	Not specified	0.000009	
115-29-7	New Jersey	Marine Acute	Not specified	0.000034	

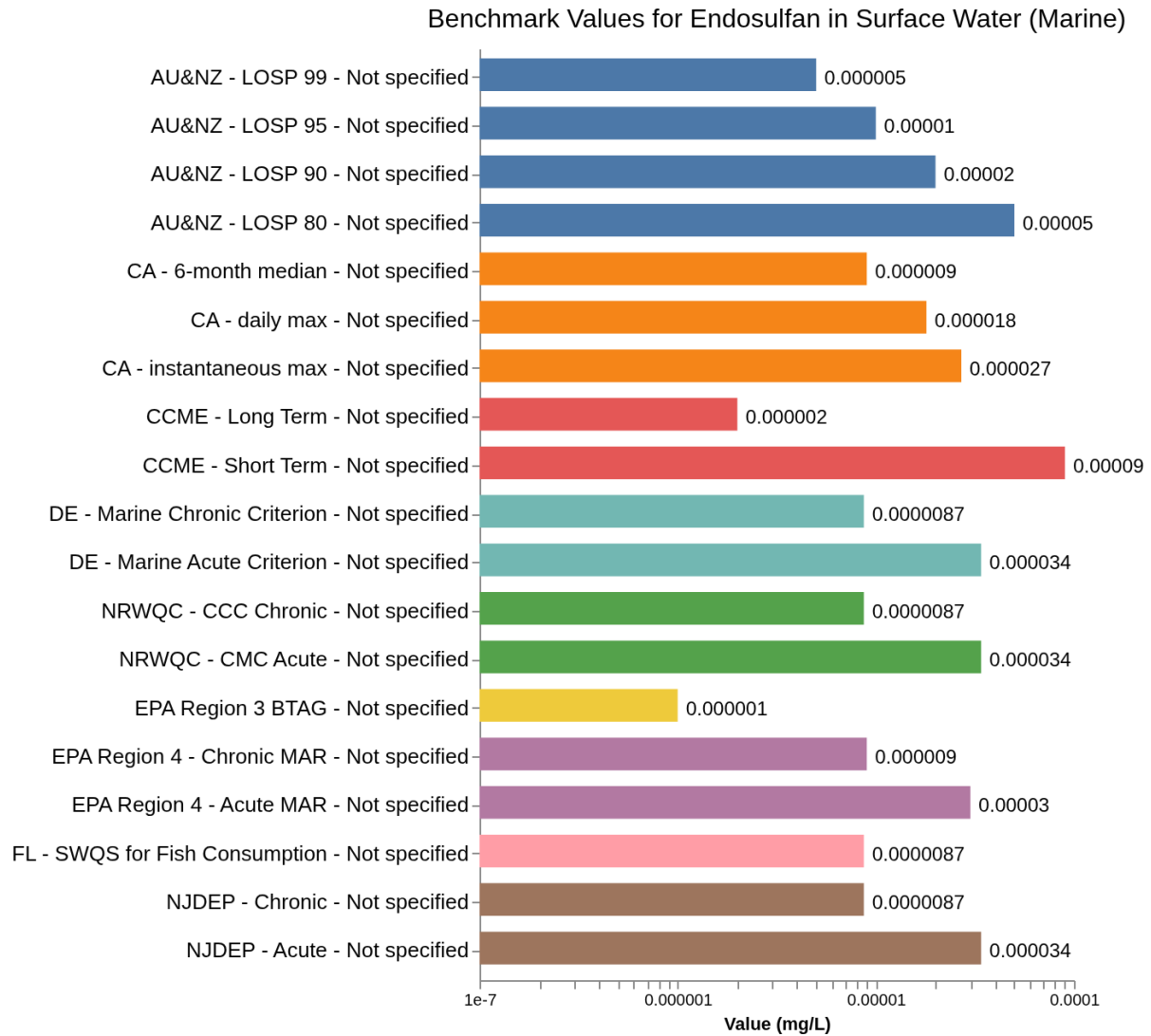


Table 180: Benchmark Values for Endrin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-20-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.000004	88, 89, 97
72-20-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.000008	88, 97
72-20-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.000010	88, 97
72-20-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.000020	88, 97
72-20-8	California	Marine 6-month median	Not specified	0.000002	
72-20-8	California	Saltwater CCC, 4-day average	Not specified	0.000002	
72-20-8	California	Marine daily max	Not specified	0.000004	
72-20-8	California	Marine instantaneous max	Not specified	0.000006	
72-20-8	California	Saltwater instantaneous max	Not specified	0.000037	
72-20-8	Delaware	Marine Chronic Criterion	Not specified	0.000002	
72-20-8	Delaware	Marine Acute Criterion	Not specified	0.000037	
72-20-8	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000002	
72-20-8	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000037	
72-20-8	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.000010	
72-20-8	EPA Region 3	BTAG – Marine	Not specified	0.000010	
72-20-8	EPA Region 4	Chronic Marine	Not specified	0.000002	7
72-20-8	EPA Region 4	Acute Marine	Not specified	0.000040	7
72-20-8	EPA Region 6	Saltwater Chronic	Not specified	0.000002	
72-20-8	EPA Region 6	Saltwater Acute	Not specified	0.000037	
72-20-8	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000002	
72-20-8	New Jersey	Marine Chronic	Not specified	0.000002	
72-20-8	New Jersey	Marine Acute	Not specified	0.000037	

Benchmark Values for Endrin in Surface Water (Marine)

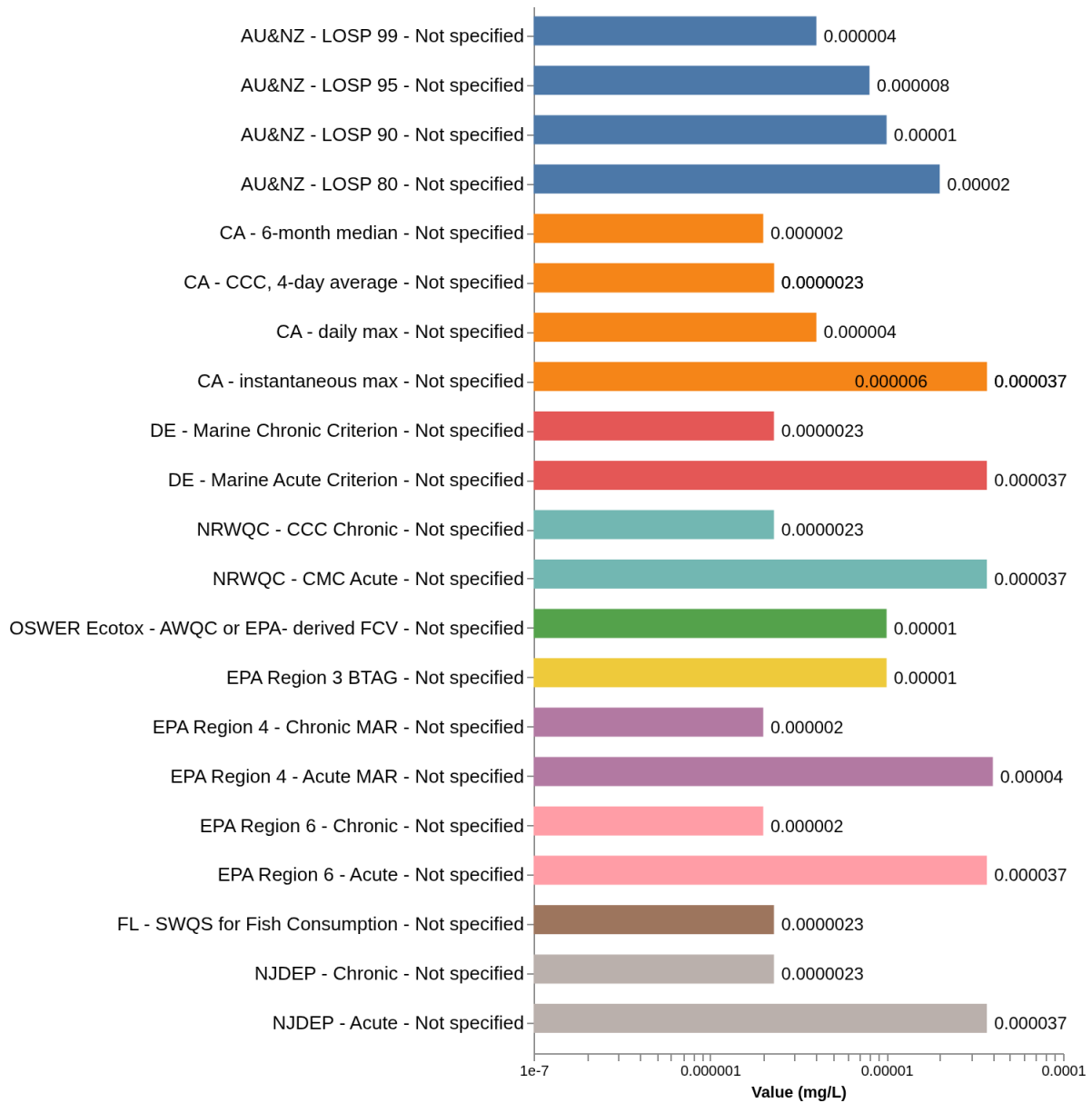


Table 181: Benchmark Values for Esfenvalerate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
66230-04-4	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.000001	82, 83

Benchmark Values for Esfenvalerate in Surface Water (Marine)

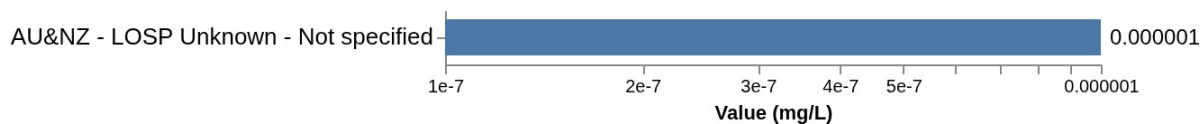


Table 182: Benchmark Values for Ethanol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
64-17-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.4	82, 87
64-17-5	Australia and New Zealand	Marine LOSP 95	Not specified	1.4	82, 83
64-17-5	Australia and New Zealand	Marine LOSP 90	Not specified	2.4	82, 83
64-17-5	Australia and New Zealand	Marine LOSP 80	Not specified	4.0	82, 83

Benchmark Values for Ethanol in Surface Water (Marine)

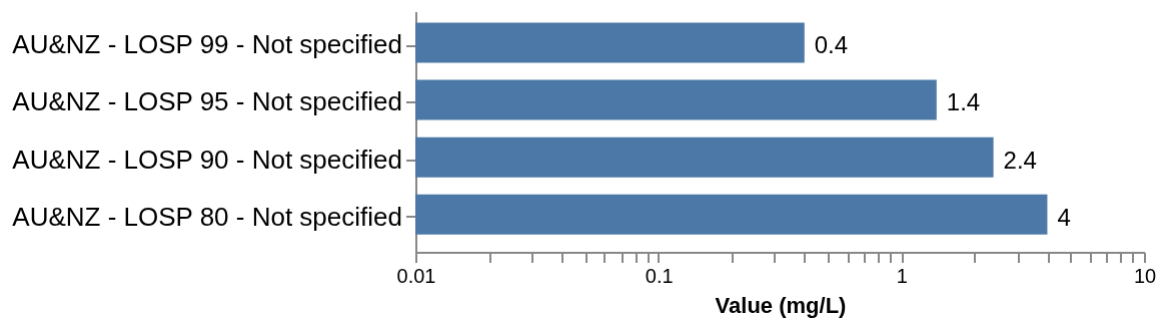


Table 183: Benchmark Values for Ethylbenzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-41-4	Australia and New Zealand	Marine LOSP 99	Not specified	0.05000	83
100-41-4	Australia and New Zealand	Marine LOSP 95	Not specified	0.08000	83, 89
100-41-4	Australia and New Zealand	Marine LOSP 90	Not specified	0.11000	83
100-41-4	Australia and New Zealand	Marine LOSP 80	Not specified	0.16000	83
100-41-4	British Columbia	Marine LTC	Not specified	0.00025	
100-41-4	California	Saltwater acute	Not specified	0.43000	
100-41-4	Canada	Marine Long Term	Not specified	0.02500	
100-41-4	EPA Region 3	BTAG – Marine	Not specified	0.02500	
100-41-4	EPA Region 4	Chronic Marine	Not specified	0.02500	
100-41-4	EPA Region 4	Acute Marine	Not specified	8.76000	
100-41-4	EPA Region 6	Saltwater Chronic	Not specified	0.52000	
100-41-4	EPA Region 6	Saltwater Acute	Not specified	1.56000	

Benchmark Values for Ethylbenzene in Surface Water (Marine)

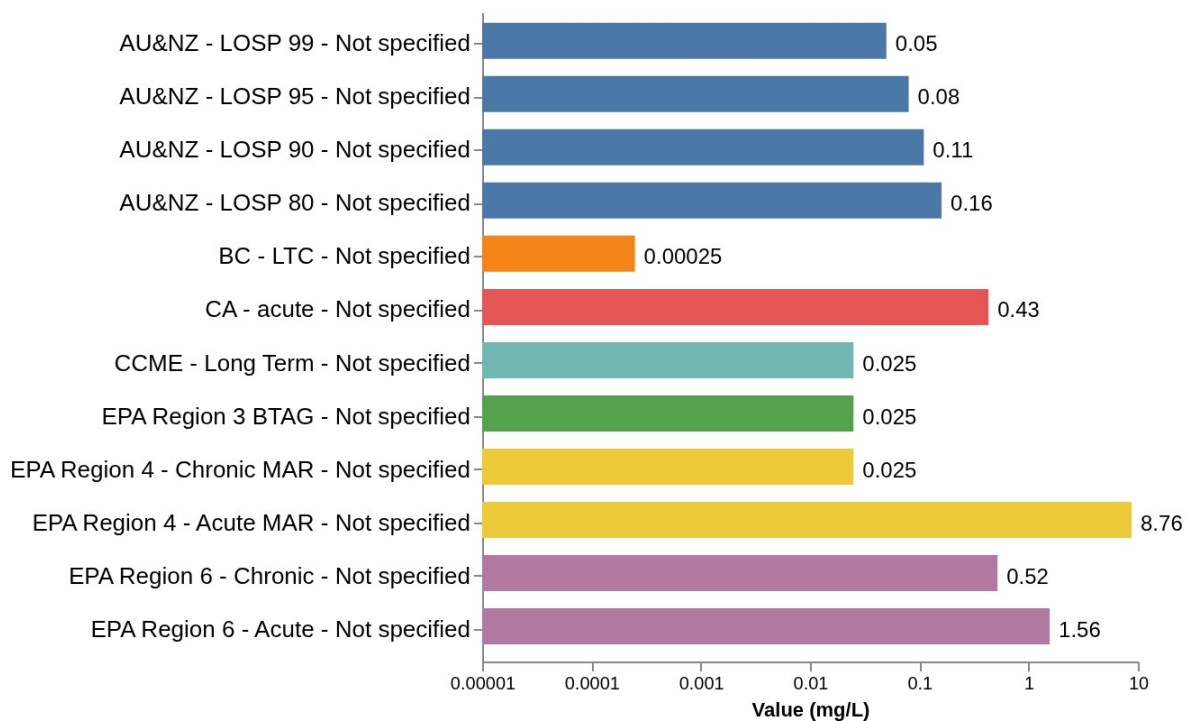
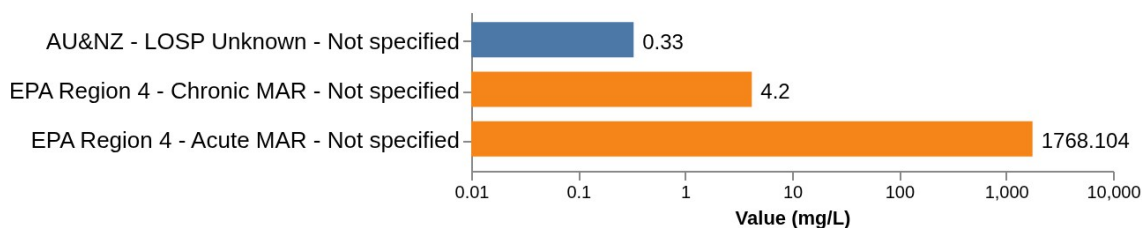
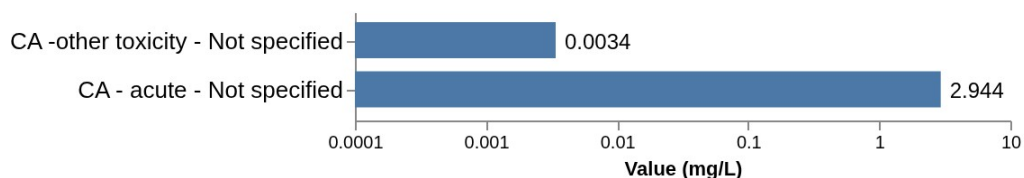


Table 184: Benchmark Values for Ethylene Glycol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-21-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.330	82, 83
107-21-1	EPA Region 4	Chronic Marine	Not specified	4.200	
107-21-1	EPA Region 4	Acute Marine	Not specified	1768.104	

Benchmark Values for Ethylene Glycol in Surface Water (Marine)**Table 185: Benchmark Values for Ethylphthalyl Ethyl Glycolate in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
84-72-0	California	Saltwater other toxicity	Not specified	0.0034
84-72-0	California	Saltwater acute	Not specified	2.9440

Benchmark Values for Ethylphthalyl Ethyl Glycolate in Surface Water (Marine)**Table 186: Benchmark Values for Fenitrothion in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122-14-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.000001	83.0

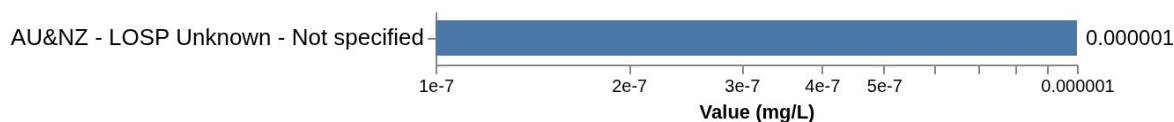
Benchmark Values for Fenitrothion in Surface Water (Marine)

Table 187: Benchmark Values for Fluoranthene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
206-44-0	Australia and New Zealand	Marine LOSP 99	Not specified	0.00100	83, 89, 97
206-44-0	Australia and New Zealand	Marine LOSP 95	Not specified	0.00140	83, 97
206-44-0	Australia and New Zealand	Marine LOSP 90	Not specified	0.00170	83, 97
206-44-0	Australia and New Zealand	Marine LOSP 80	Not specified	0.00200	83, 97
206-44-0	California	Saltwater chronic	Not specified	0.01600	
206-44-0	California	Saltwater acute	Not specified	0.04000	
206-44-0	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.01100	
206-44-0	EPA Region 3	BTAG – Marine	Not specified	0.00160	
206-44-0	EPA Region 4	Chronic Marine	Not specified	0.00082	7
206-44-0	EPA Region 4	Acute Marine	Not specified	0.00340	7
206-44-0	EPA Region 6	Saltwater Chronic	Not specified	0.00296	
206-44-0	EPA Region 6	Saltwater Acute	Not specified	0.01610	
206-44-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.37000	

Benchmark Values for Fluoranthene in Surface Water (Marine)

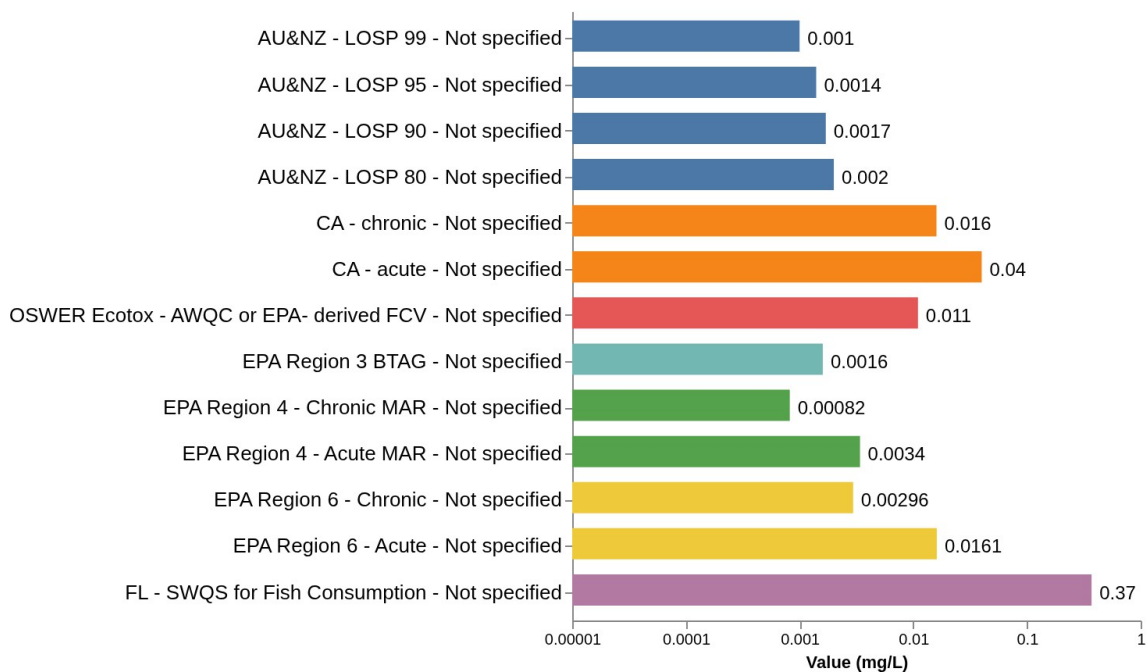


Table 188: Benchmark Values for Fluorene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-73-7	British Columbia	Marine LTC	Not specified	0.0120
86-73-7	California	Saltwater acute	Not specified	0.3000
86-73-7	EPA Region 3	BTAG – Marine	Not specified	0.0025
86-73-7	EPA Region 4	Chronic Marine	Not specified	0.0240
86-73-7	EPA Region 4	Acute Marine	Not specified	0.0820
86-73-7	EPA Region 6	Saltwater Chronic	Not specified	0.0010
86-73-7	EPA Region 6	Saltwater Acute	Not specified	0.0330
86-73-7	Florida	SWQS for Fish Consumption in Marine water	Not specified	14.0000

Benchmark Values for Fluorene in Surface Water (Marine)

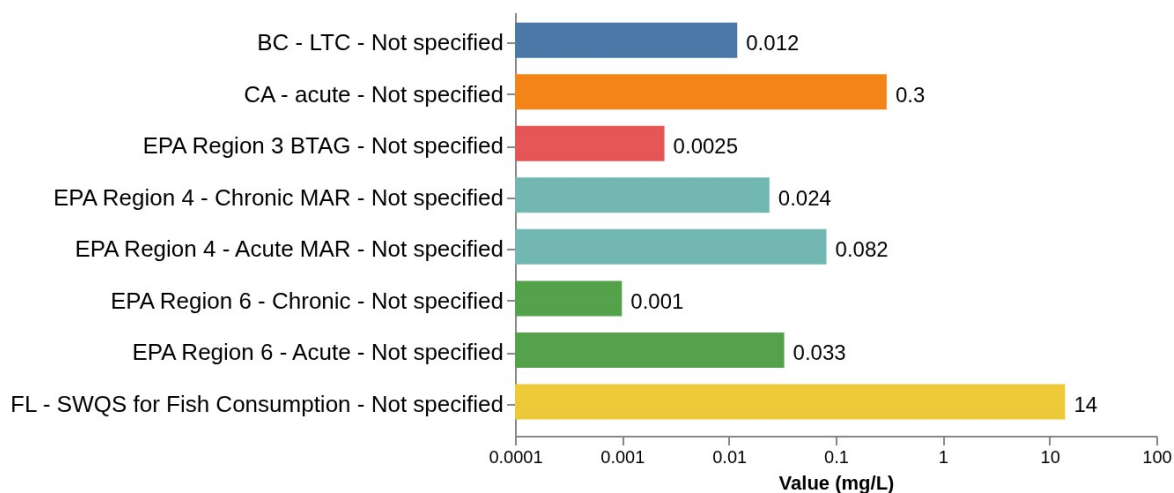


Table 189: Benchmark Values for Fluoride in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
16984-48-8	British Columbia	Marine STA	Not specified	1.5
16984-48-8	EPA Region 4	Chronic Marine	Not specified	5.0
16984-48-8	Florida	SWQS for Fish Consumption in Marine water	Not specified	5.0

Benchmark Values for Fluoride in Surface Water (Marine)

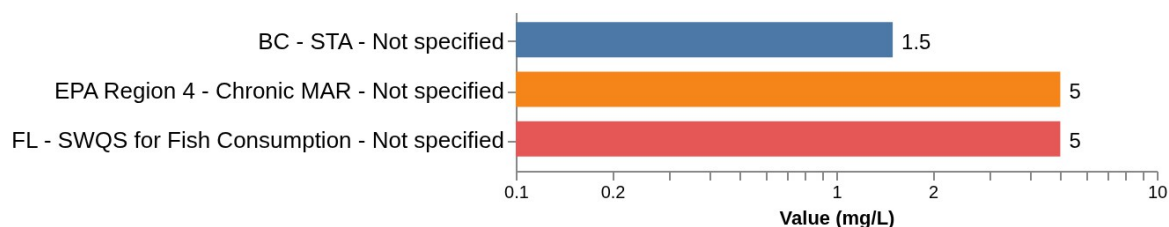
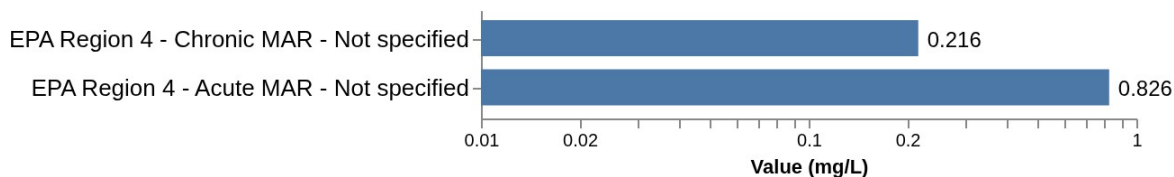
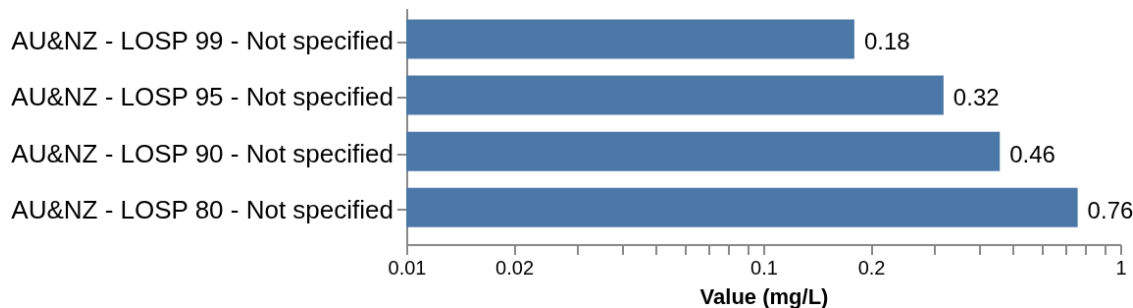


Table 190: Benchmark Values for Formaldehyde in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
50-00-0	EPA Region 4	Chronic Marine	Not specified	0.216
50-00-0	EPA Region 4	Acute Marine	Not specified	0.826

Benchmark Values for Formaldehyde in Surface Water (Marine)**Table 191: Benchmark Values for Glyphosate in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1071-83-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.18	82, 85, 108
1071-83-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.32	82, 83, 108
1071-83-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.46	82, 83, 108
1071-83-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.76	82, 83, 108

Benchmark Values for Glyphosate in Surface Water (Marine)**Table 192: Benchmark Values for Halomethanes in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-7	California	Saltwater chronic	Not specified	6.4
000000-47-7	California	Saltwater other toxicity	Not specified	11.5
000000-47-7	California	Saltwater acute	Not specified	12.0

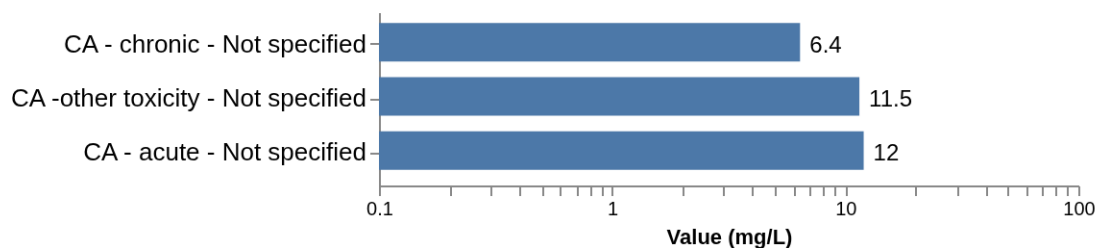
Benchmark Values for Halomethanes in Surface Water (Marine)

Table 193: Benchmark Values for Heptachlor Epoxide in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
1024-57-3	California	Saltwater CCC, 4-day average	Not specified	0.000004
1024-57-3	California	Saltwater instantaneous max	Not specified	0.000053
1024-57-3	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000004
1024-57-3	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000053
1024-57-3	EPA Region 4	Chronic Marine	Not specified	0.000004
1024-57-3	EPA Region 4	Acute Marine	Not specified	0.000050
1024-57-3	EPA Region 6	Saltwater Chronic	Not specified	0.000004
1024-57-3	EPA Region 6	Saltwater Acute	Not specified	0.000053
1024-57-3	New Jersey	Marine Chronic	Not specified	0.000004
1024-57-3	New Jersey	Marine Acute	Not specified	0.000053

Benchmark Values for Heptachlor Epoxide in Surface Water (Marine)

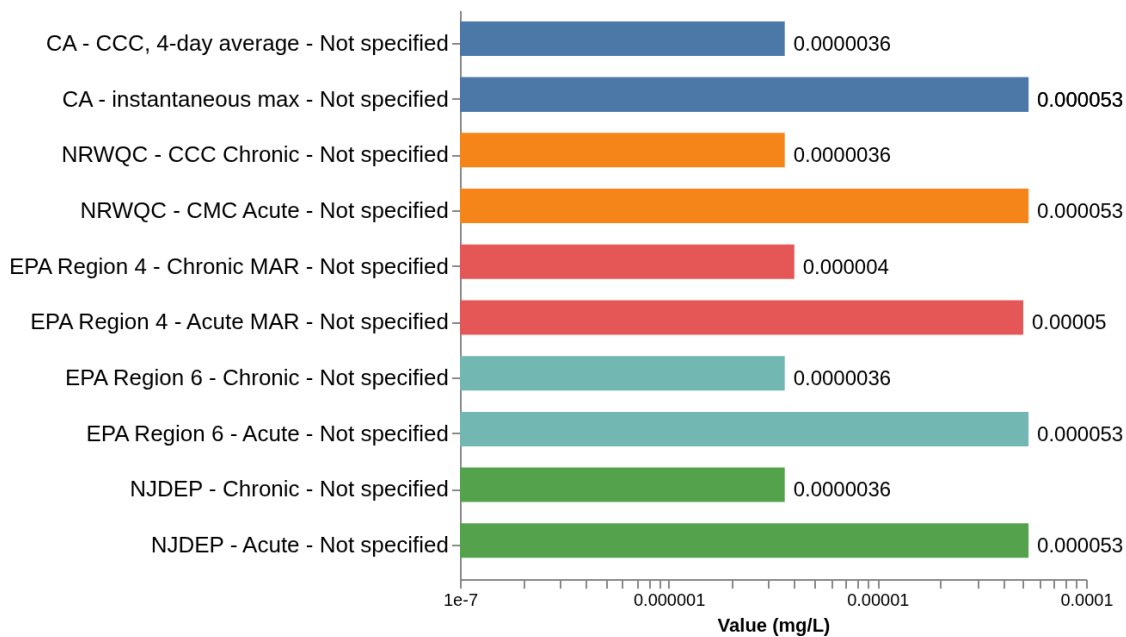


Table 194: Benchmark Values for Heptachlor in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76-44-8	Australia and New Zealand	Marine LOSP Unknown	Not specified	4.000000e-07	83, 101
76-44-8	California	Saltwater CCC, 4-day average	Not specified	3.600000e-06	
76-44-8	California	Saltwater instantaneous max	Not specified	5.300000e-05	
76-44-8	Delaware	Marine Chronic Criterion	Not specified	3.600000e-06	
76-44-8	Delaware	Marine Acute Criterion	Not specified	5.300000e-05	
76-44-8	EPA NRWQC	Saltwater CCC Chronic	Not specified	3.600000e-06	
76-44-8	EPA NRWQC	Saltwater CMC Acute	Not specified	5.300000e-05	
76-44-8	EPA Region 4	Chronic Marine	Not specified	4.000000e-06	7
76-44-8	EPA Region 4	Acute Marine	Not specified	5.000000e-05	7
76-44-8	EPA Region 6	Saltwater Chronic	Not specified	4.000000e-06	
76-44-8	EPA Region 6	Saltwater Acute	Not specified	5.300000e-05	
76-44-8	Florida	SWQS for Fish Consumption in Marine water	Not specified	2.100000e-07	
76-44-8	New Jersey	Marine Chronic	Not specified	3.600000e-06	
76-44-8	New Jersey	Marine Acute	Not specified	5.300000e-05	

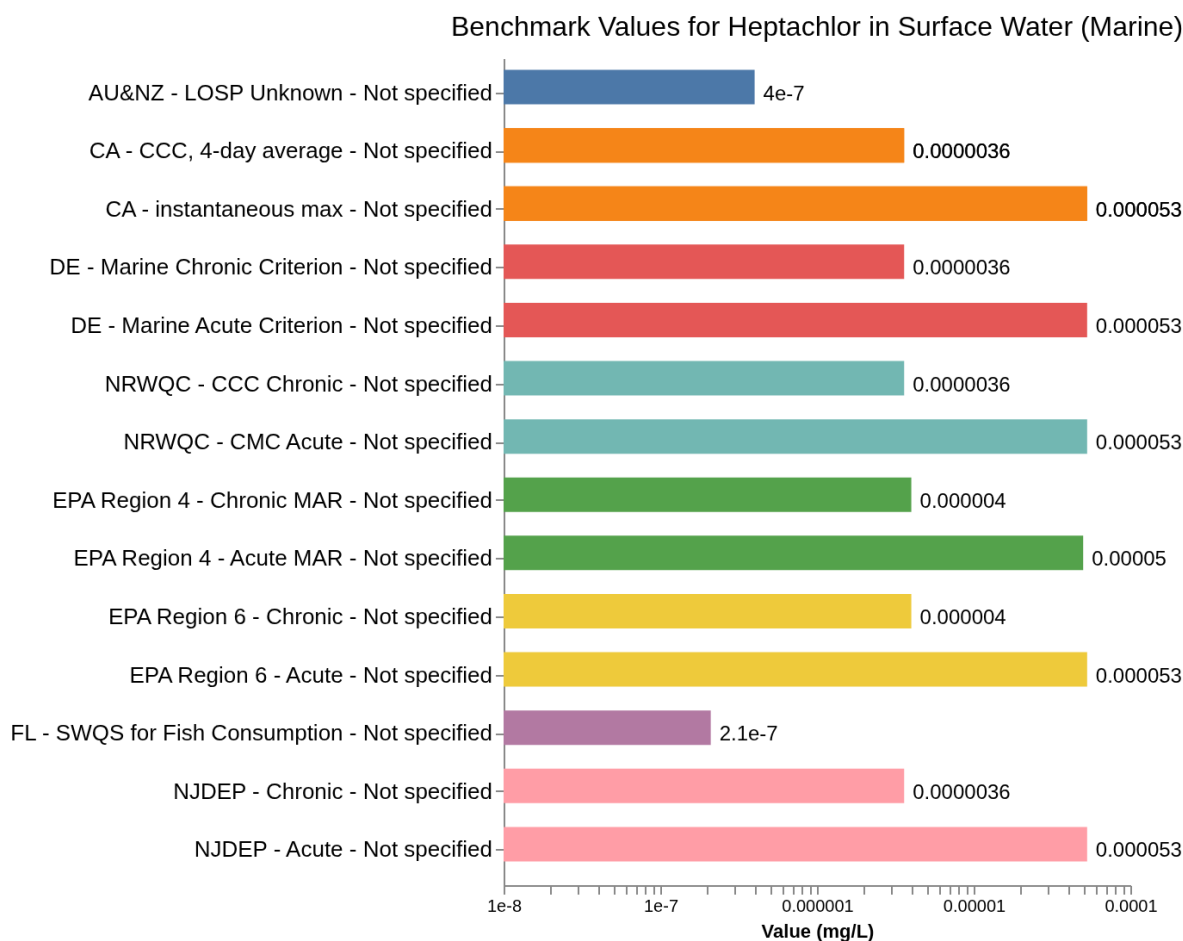


Table 195: Benchmark Values for Hexabromocyclododecane (HBCD) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
3194-55-6	ECC Canada	Marine LTC	Not specified	0.00056

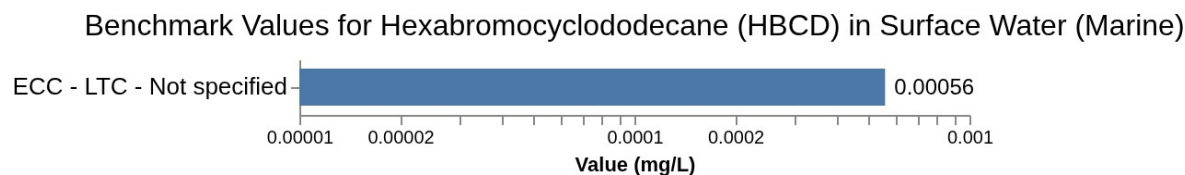


Table 196: Benchmark Values for Hexachlorobenzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
118-74-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.00005	83, 89, 97
118-74-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.00010	83, 97
118-74-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.00020	83, 97
118-74-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.00030	83, 97
118-74-1	California	Saltwater chronic	Not specified	0.12900	
118-74-1	California	Saltwater acute	Not specified	0.16000	
118-74-1	EPA Region 4	Chronic Marine	Aquatic only	0.00015	7
118-74-1	EPA Region 4	Acute Marine	Aquatic only	0.00280	7

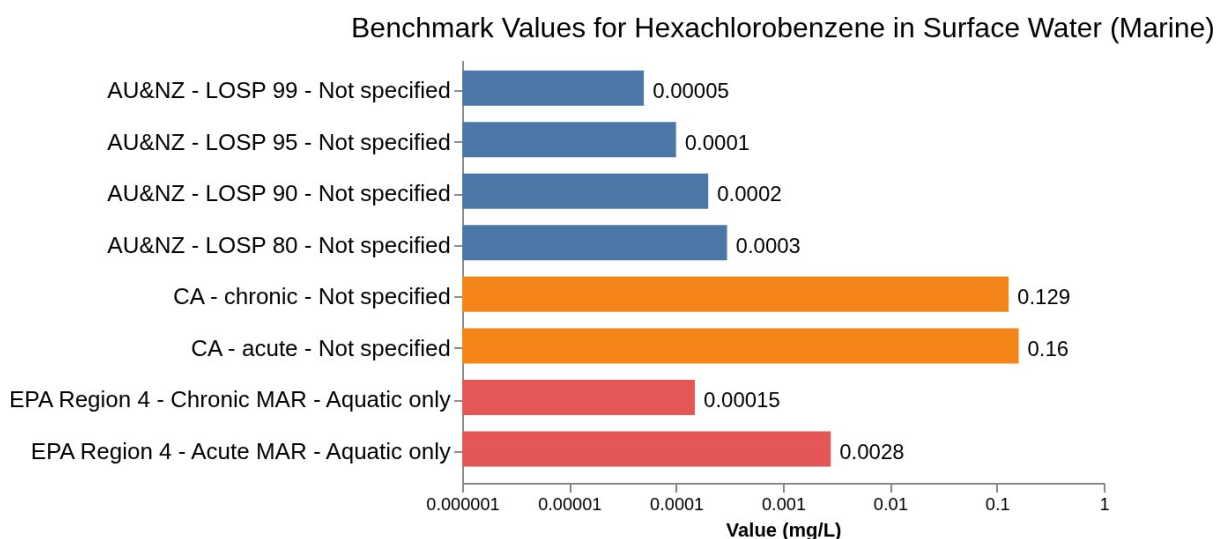


Table 197: Benchmark Values for Hexachlorobutadiene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-68-3	California	Saltwater acute	Not specified	0.03200	
87-68-3	EPA Region 3	BTAG – Marine	Not specified	0.00030	
87-68-3	EPA Region 4	Chronic Marine	Wildlife only	0.00030	7
87-68-3	EPA Region 4	Chronic Marine	Aquatic only	0.00030	7
87-68-3	EPA Region 4	Acute Marine	Aquatic only	0.00160	7
87-68-3	EPA Region 4	Acute Marine	Wildlife only	0.00160	7
87-68-3	EPA Region 6	Saltwater Chronic	Not specified	0.00032	
87-68-3	EPA Region 6	Saltwater Acute	Not specified	0.00960	
87-68-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.04970	

Benchmark Values for Hexachlorobutadiene in Surface Water (Marine)

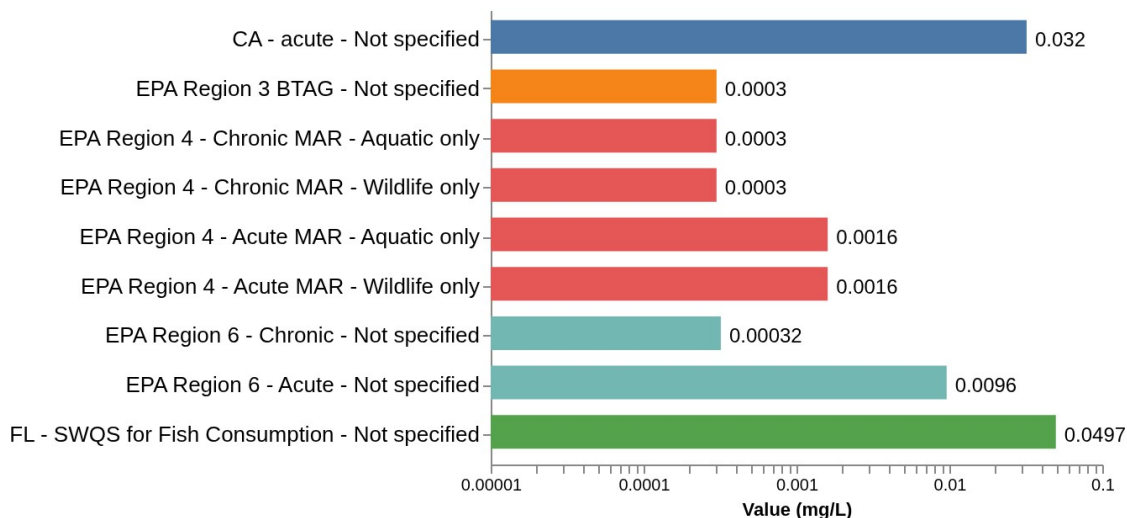


Table 198: Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-02-2	Delaware	Marine Acute Criterion	Not specified	0.00016

Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water (Marine)

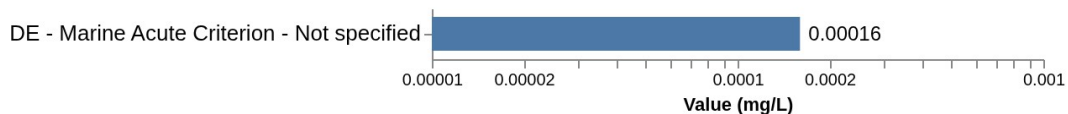


Table 199: Benchmark Values for Hexachlorocyclohexane, Alpha- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-84-6	California	Marine 6-month median	Not specified	0.000004	220
319-84-6	California	Marine daily max	Not specified	0.000008	220
319-84-6	California	Marine instantaneous max	Not specified	0.000012	220
319-84-6	EPA Region 3	BTAG - Marine	Not specified	0.025000	
319-84-6	EPA Region 4	Chronic Marine	Not specified	0.000046	7
319-84-6	EPA Region 6	Saltwater Chronic	Not specified	0.005000	
319-84-6	EPA Region 6	Saltwater Acute	Not specified	0.150000	

Benchmark Values for Hexachlorocyclohexane, Alpha- in Surface Water (Marine)

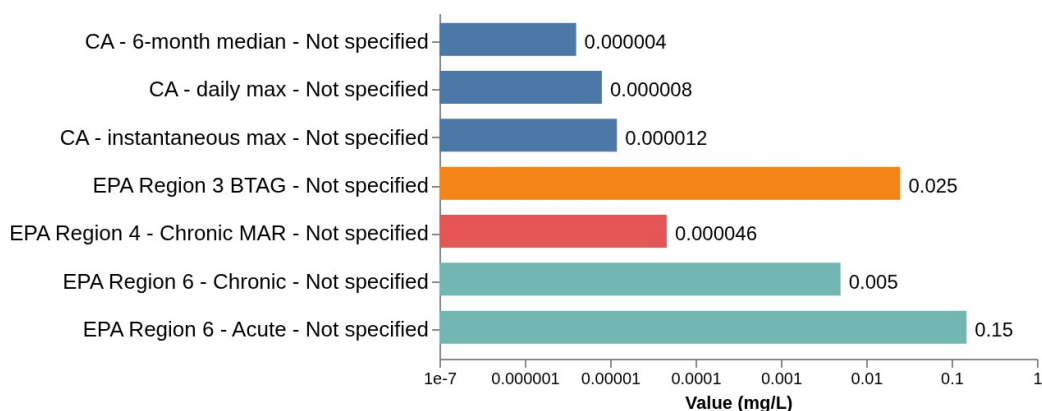


Table 200: Benchmark Values for Hexachlorocyclohexane, Beta- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-85-7	California	Marine 6-month median	Not specified	0.000004	220
319-85-7	California	Marine daily max	Not specified	0.000008	220
319-85-7	California	Marine instantaneous max	Not specified	0.000012	220
319-85-7	EPA Region 4	Chronic Marine	Not specified	0.000046	7
319-85-7	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000046	

Benchmark Values for Hexachlorocyclohexane, Beta- in Surface Water (Marine)

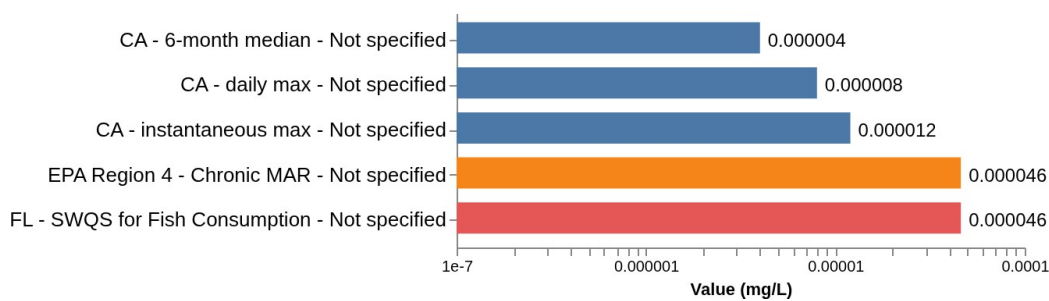
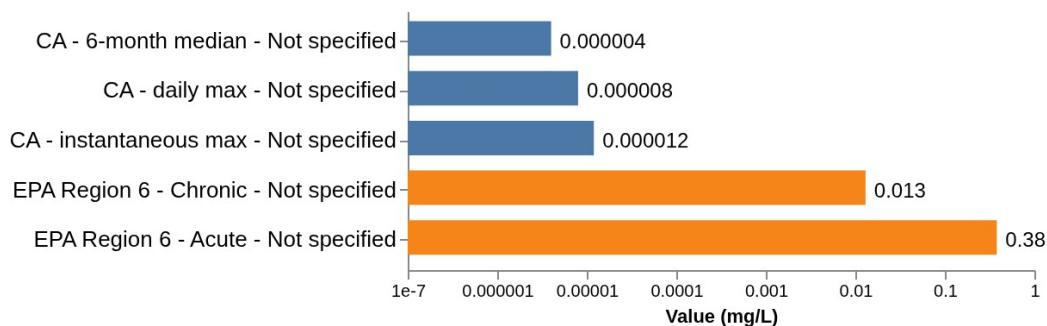


Table 201: Benchmark Values for Hexachlorocyclohexane, Delta– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319–86–8	California	Marine 6–month median	Not specified	0.000004	220
319–86–8	California	Marine daily max	Not specified	0.000008	220
319–86–8	California	Marine instantaneous max	Not specified	0.000012	220
319–86–8	EPA Region 6	Saltwater Chronic	Not specified	0.013000	
319–86–8	EPA Region 6	Saltwater Acute	Not specified	0.380000	

Benchmark Values for Hexachlorocyclohexane, Delta- in Surface Water (Marine)**Table 202: Benchmark Values for Hexachlorocyclohexane, Gamma– (Lindane) in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
58–89–9	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.000007	83
58–89–9	California	Marine 6–month median	Not specified	0.000004	220
58–89–9	California	Marine daily max	Not specified	0.000008	220
58–89–9	California	Marine instantaneous max	Not specified	0.000012	220
58–89–9	California	Saltwater instantaneous max	Not specified	0.000160	
58–89–9	EPA NRWQC	Saltwater CMC Acute	Not specified	0.000160	
58–89–9	EPA Region 3	BTAG – Marine	Not specified	0.000016	
58–89–9	EPA Region 4	Chronic Marine	Aquatic only	0.000020	7
58–89–9	EPA Region 4	Chronic Marine	Wildlife only	0.000020	7
58–89–9	EPA Region 4	Acute Marine	Wildlife only	0.000160	7
58–89–9	EPA Region 4	Acute Marine	Aquatic only	0.000160	7
58–89–9	EPA Region 6	Saltwater Chronic	Not specified	0.000016	
58–89–9	EPA Region 6	Saltwater Acute	Not specified	0.000160	
58–89–9	New Jersey	Marine Acute	Not specified	0.000160	

Benchmark Values for Hexachlorocyclohexane, Gamma- (Lindane) in Surface Water (Marine)

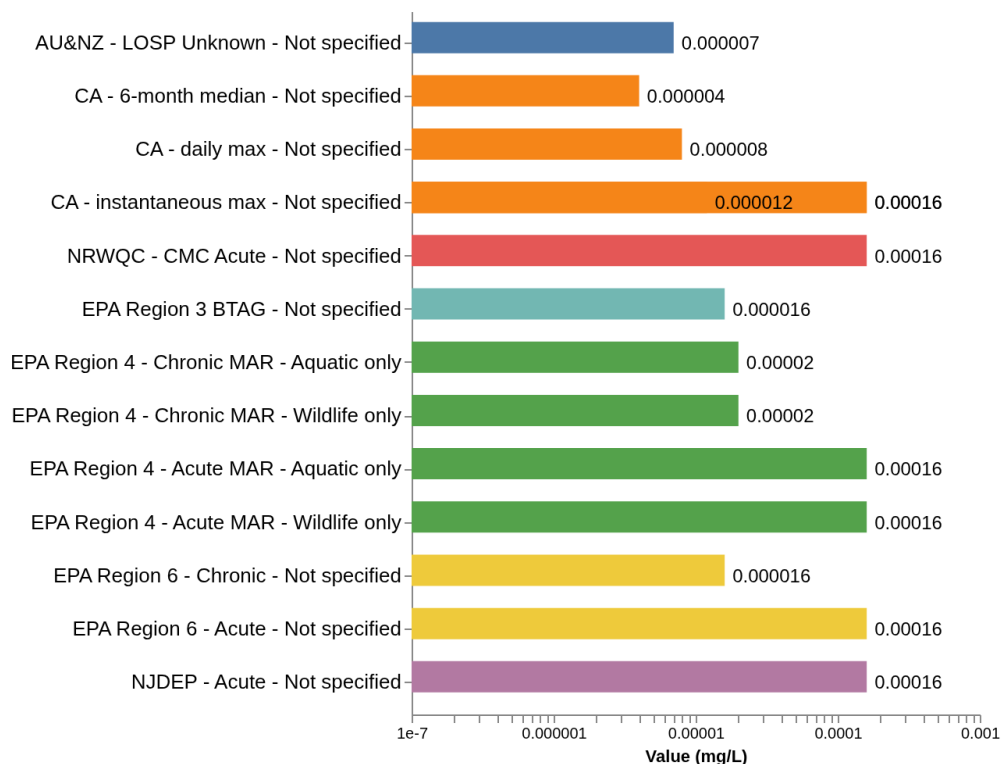


Table 203: Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
608-73-1	California	Marine 6-month median	Not specified	0.000004	220
608-73-1	California	Marine daily max	Not specified	0.000008	220
608-73-1	California	Marine instantaneous max	Not specified	0.000012	220
608-73-1	California	Saltwater acute	Not specified	0.000340	

Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water (Marine)

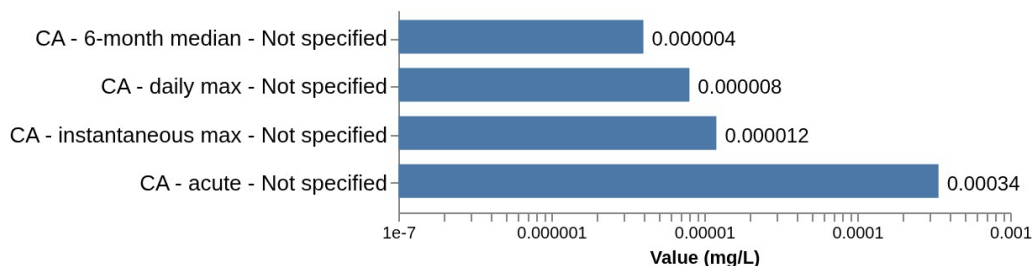
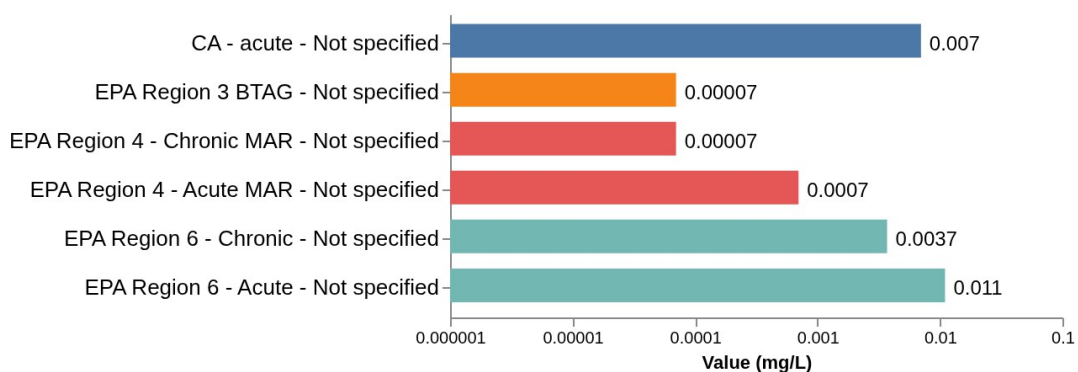


Table 204: Benchmark Values for Hexachlorocyclopentadiene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
77-47-4	California	Saltwater acute	Not specified	0.00700	
77-47-4	EPA Region 3	BTAG – Marine	Not specified	0.00007	
77-47-4	EPA Region 4	Chronic Marine	Not specified	0.00007	7
77-47-4	EPA Region 4	Acute Marine	Not specified	0.00070	7
77-47-4	EPA Region 6	Saltwater Chronic	Not specified	0.00370	
77-47-4	EPA Region 6	Saltwater Acute	Not specified	0.01100	

Benchmark Values for Hexachlorocyclopentadiene in Surface Water (Marine)**Table 205: Benchmark Values for Hexachloroethane in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-72-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.2900	82, 87, 101
67-72-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.3600	82, 83, 101
67-72-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.4200	82, 83, 101
67-72-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.5000	82, 83, 101
67-72-1	California	Saltwater acute	Not specified	0.9400	
67-72-1	EPA Region 3	BTAG – Marine	Not specified	0.0094	
67-72-1	EPA Region 4	Chronic Marine	Not specified	0.0330	
67-72-1	EPA Region 4	Acute Marine	Not specified	0.3100	
67-72-1	EPA Region 6	Saltwater Chronic	Not specified	0.0990	
67-72-1	EPA Region 6	Saltwater Acute	Not specified	0.3000	

Benchmark Values for Hexachloroethane in Surface Water (Marine)

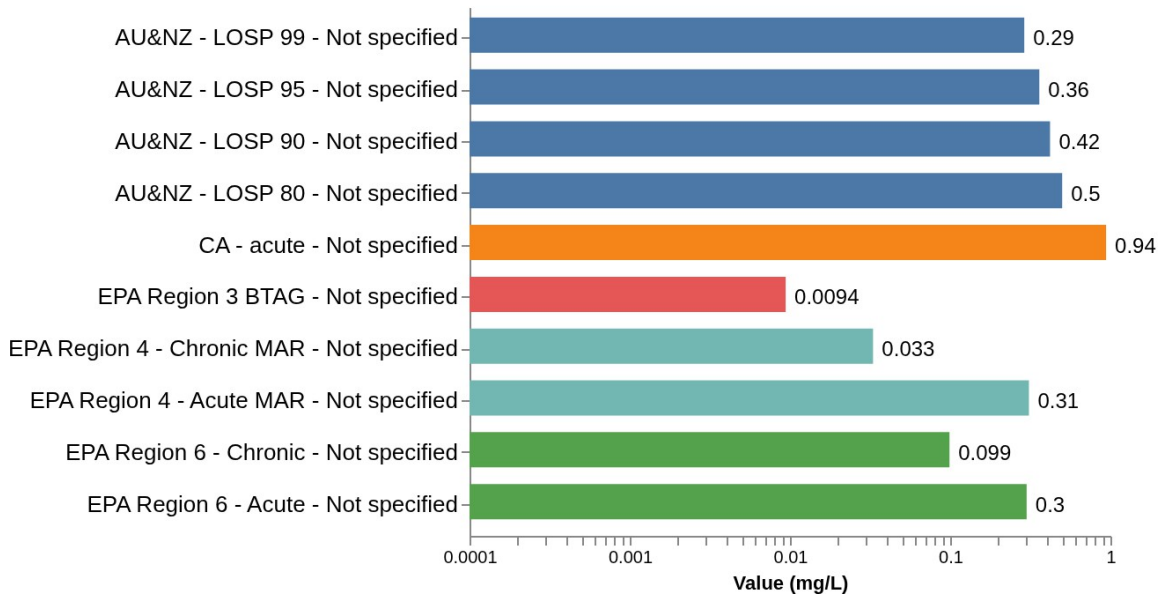


Table 206: Benchmark Values for Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
121-82-4	EPA Region 4	Chronic Marine	Not specified	0.19
121-82-4	EPA Region 4	Acute Marine	Not specified	0.70
121-82-4	EPA Region 6	Saltwater Chronic	Not specified	1.03
121-82-4	EPA Region 6	Saltwater Acute	Not specified	3.08

Benchmark Values for Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in Surface Water (Marine)

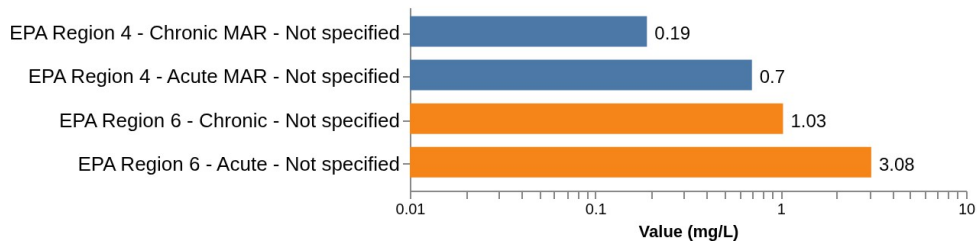


Table 207: Benchmark Values for Hexane, n- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
110-54-3	EPA Region 4	Chronic Marine	Not specified	0.115
110-54-3	EPA Region 4	Acute Marine	Not specified	0.715

Benchmark Values for Hexane, n- in Surface Water (Marine)

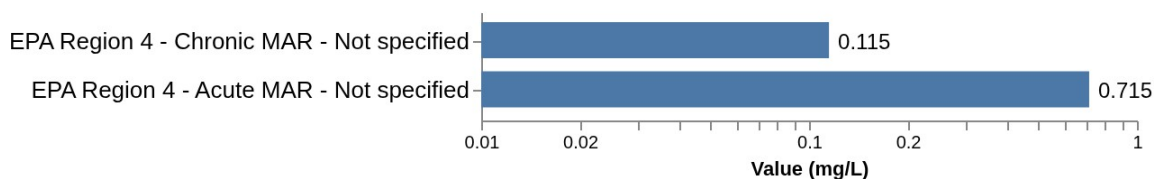


Table 208: Benchmark Values for Hexanone, 2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
591-78-6	EPA Region 4	Chronic Marine	Not specified	16.871
591-78-6	EPA Region 4	Acute Marine	Not specified	58.590

Benchmark Values for Hexanone, 2- in Surface Water (Marine)

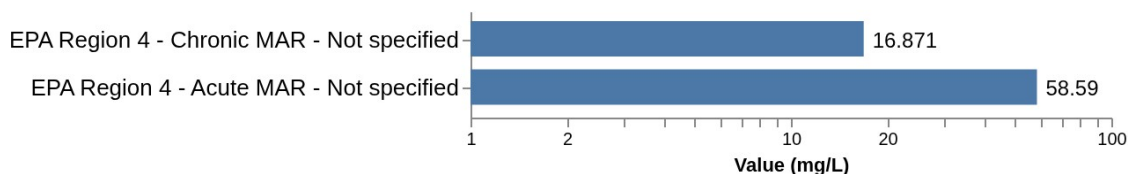


Table 209: Benchmark Values for Hydrazine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
302-01-2	EPA Region 4	Chronic Marine	Not specified	0.034
302-01-2	EPA Region 4	Acute Marine	Not specified	0.140

Benchmark Values for Hydrazine in Surface Water (Marine)

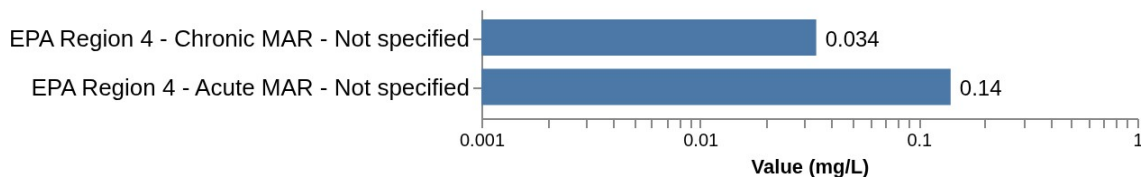


Table 210: Benchmark Values for Hydrogen Sulfide in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7783-06-4	California	Saltwater instantaneous max	Not specified	0.002
7783-06-4	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.002
7783-06-4	EPA Region 3	BTAG – Marine	Not specified	0.002
7783-06-4	EPA Region 4	Chronic Marine	Not specified	0.002
7783-06-4	EPA Region 6	Saltwater Chronic	Not specified	0.002
7783-06-4	New Jersey	Marine Chronic	Not specified	0.002

Benchmark Values for Hydrogen Sulfide in Surface Water (Marine)

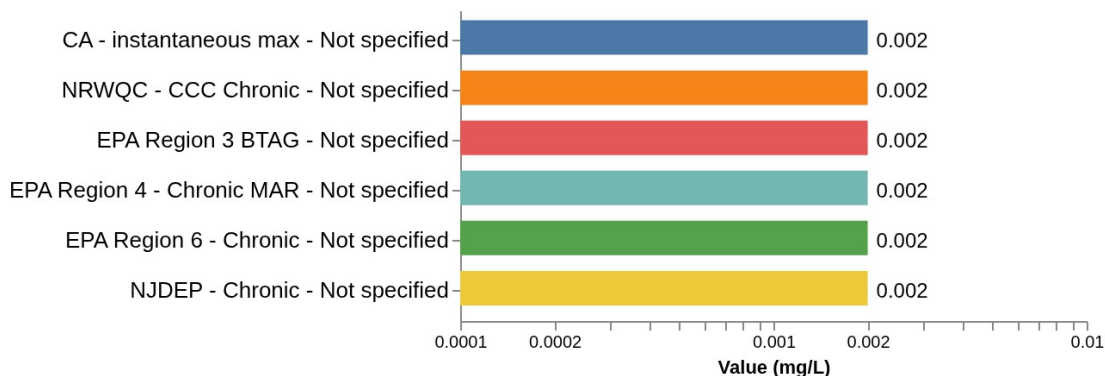


Table 211: Benchmark Values for Hydroquinone in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
123-31-9	EPA Region 4	Chronic Marine	Not specified	0.006
123-31-9	EPA Region 4	Acute Marine	Not specified	0.025

Benchmark Values for Hydroquinone in Surface Water (Marine)

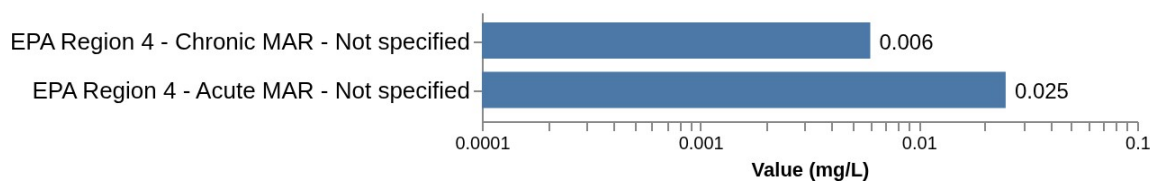


Table 212: Benchmark Values for Imidacloprid in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
138261-41-3	Canada	Marine Long Term	Not specified	0.00065

Benchmark Values for Imidacloprid in Surface Water (Marine)

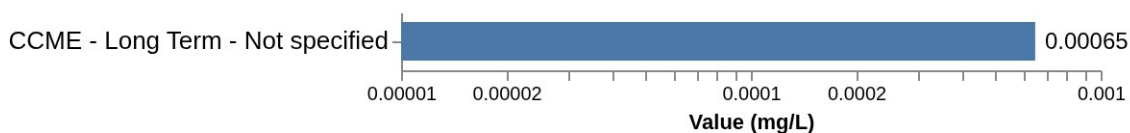


Table 213: Benchmark Values for Indeno[1,2,3-cd]pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
193-39-5	California	Saltwater acute	Not specified	0.300000	
193-39-5	EPA Region 4	Chronic Marine	Not specified	0.000012	7
193-39-5	EPA Region 4	Acute Marine	Not specified	0.000270	7

Benchmark Values for Indeno[1,2,3-cd]pyrene in Surface Water (Marine)

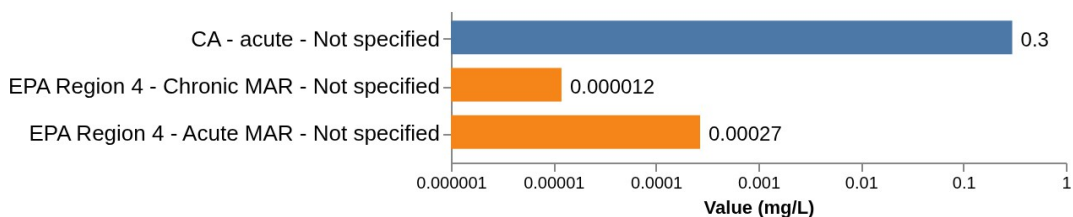


Table 214: Benchmark Values for Iodoform in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-47-8	California	Saltwater chronic	Not specified	6.4
75-47-8	California	Saltwater other toxicity	Not specified	11.5
75-47-8	California	Saltwater acute	Not specified	12.0

Benchmark Values for Iodoform in Surface Water (Marine)

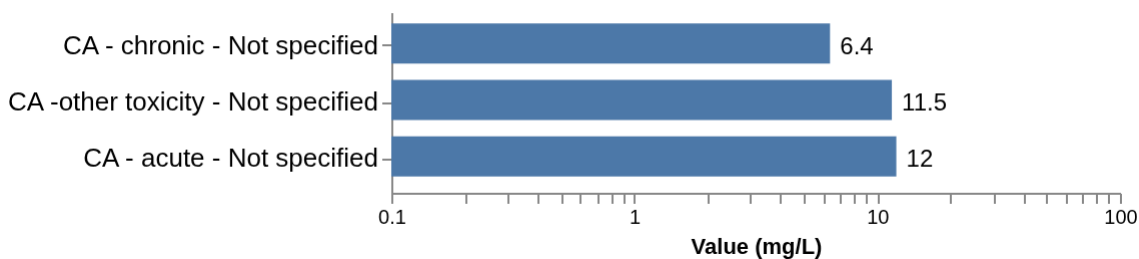


Table 215: Benchmark Values for Iron in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-89-6	EPA Region 4	Chronic Marine	Not specified	0.3
7439-89-6	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.3

Benchmark Values for Iron in Surface Water (Marine)

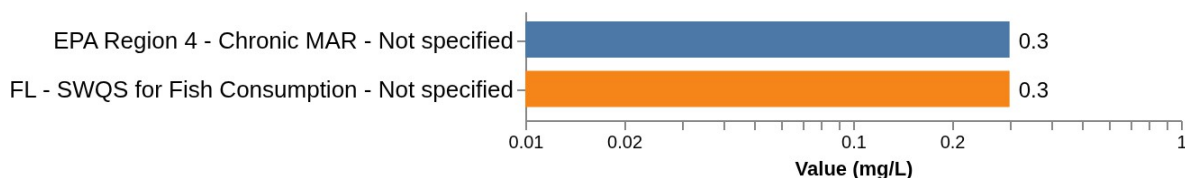


Table 216: Benchmark Values for Isophorone in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-59-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.130	83
78-59-1	California	Saltwater acute	Not specified	12.900	
78-59-1	EPA Region 3	BTAG – Marine	Not specified	0.129	
78-59-1	EPA Region 4	Chronic Marine	Not specified	0.996	
78-59-1	EPA Region 4	Acute Marine	Not specified	4.300	
78-59-1	EPA Region 6	Saltwater Chronic	Not specified	0.650	
78-59-1	EPA Region 6	Saltwater Acute	Not specified	3.870	

Benchmark Values for Isophorone in Surface Water (Marine)

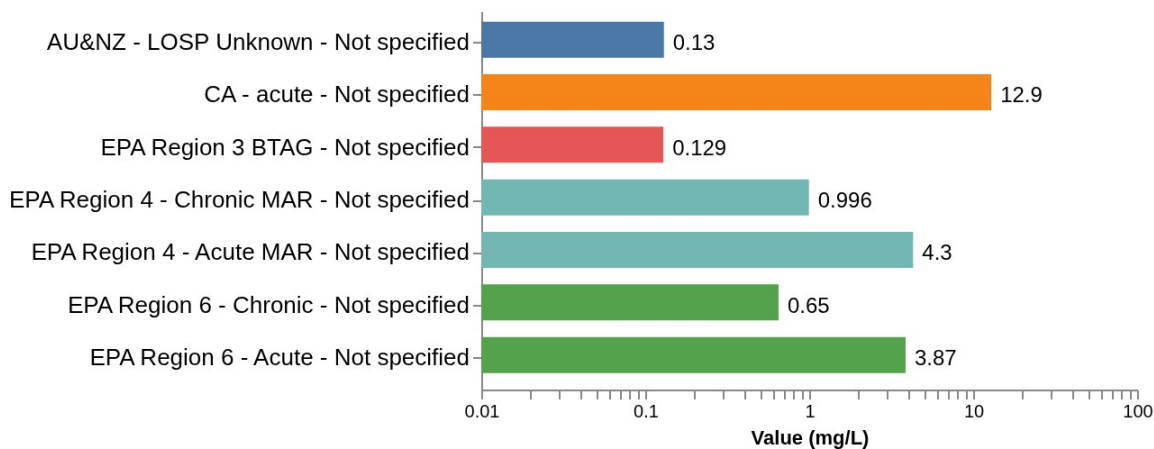


Table 217: Benchmark Values for Isopropanol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-63-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	4.200	82, 83
67-63-0	EPA Region 4	Chronic Marine	Not specified	52.874	
67-63-0	EPA Region 4	Acute Marine	Not specified	162.854	

Benchmark Values for Isopropanol in Surface Water (Marine)

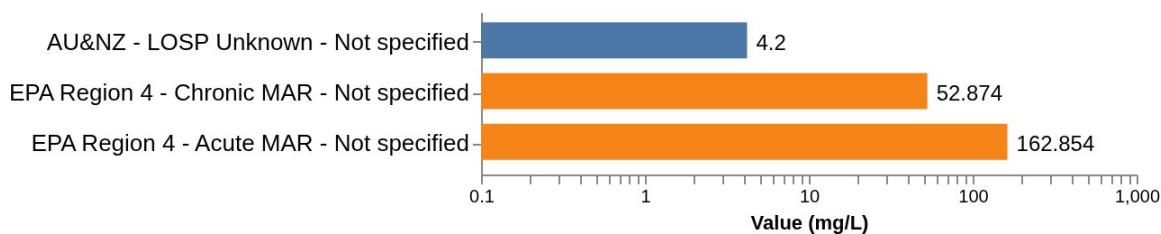
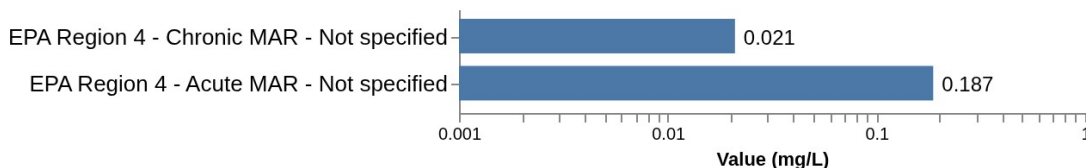


Table 218: Benchmark Values for Isopropyltoluene, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
99-87-6	EPA Region 4	Chronic Marine	Not specified	0.021
99-87-6	EPA Region 4	Acute Marine	Not specified	0.187

Benchmark Values for Isopropyltoluene, p- in Surface Water (Marine)**Table 219: Benchmark Values for Lead and Compounds in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-92-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.0022	87
7439-92-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.0044	87, 89
7439-92-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.0066	84, 94
7439-92-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.0120	87, 94
7439-92-1	British Columbia	Marine LTC	Not specified	0.0020	
7439-92-1	British Columbia	Marine STA	Not specified	0.1400	
7439-92-1	California	Marine 6-month median	Not specified	0.0020	
7439-92-1	California	Marine daily max	Not specified	0.0080	
7439-92-1	California	Saltwater CCC, 4-day average	Not specified	0.0081	214
7439-92-1	California	Marine instantaneous max	Not specified	0.0200	
7439-92-1	California	Saltwater CMC, 1-hour average	Not specified	0.2100	214
7439-92-1	California	Saltwater CMC, 1-hour average	Not specified	0.2100	214, 216
7439-92-1	Delaware	Marine Chronic Criterion	Not specified	0.0081	236
7439-92-1	Delaware	Marine Acute Criterion	Not specified	0.2100	236
7439-92-1	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0081	
7439-92-1	EPA NRWQC	Saltwater CMC Acute	Not specified	0.2100	
7439-92-1	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0081	
7439-92-1	EPA Region 3	BTAG - Marine	Not specified	0.0081	
7439-92-1	EPA Region 4	Chronic Marine	Not specified	0.0081	1, 2
7439-92-1	EPA Region 4	Acute Marine	Not specified	0.2100	1, 2
7439-92-1	EPA Region 6	Saltwater Chronic	Not specified	0.0053	21
7439-92-1	EPA Region 6	Saltwater Acute	Not specified	0.1330	21
7439-92-1	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0085	
7439-92-1	New Jersey	Marine Chronic	Not specified	0.0240	199, 200
7439-92-1	New Jersey	Marine Acute	Not specified	0.2100	199, 200

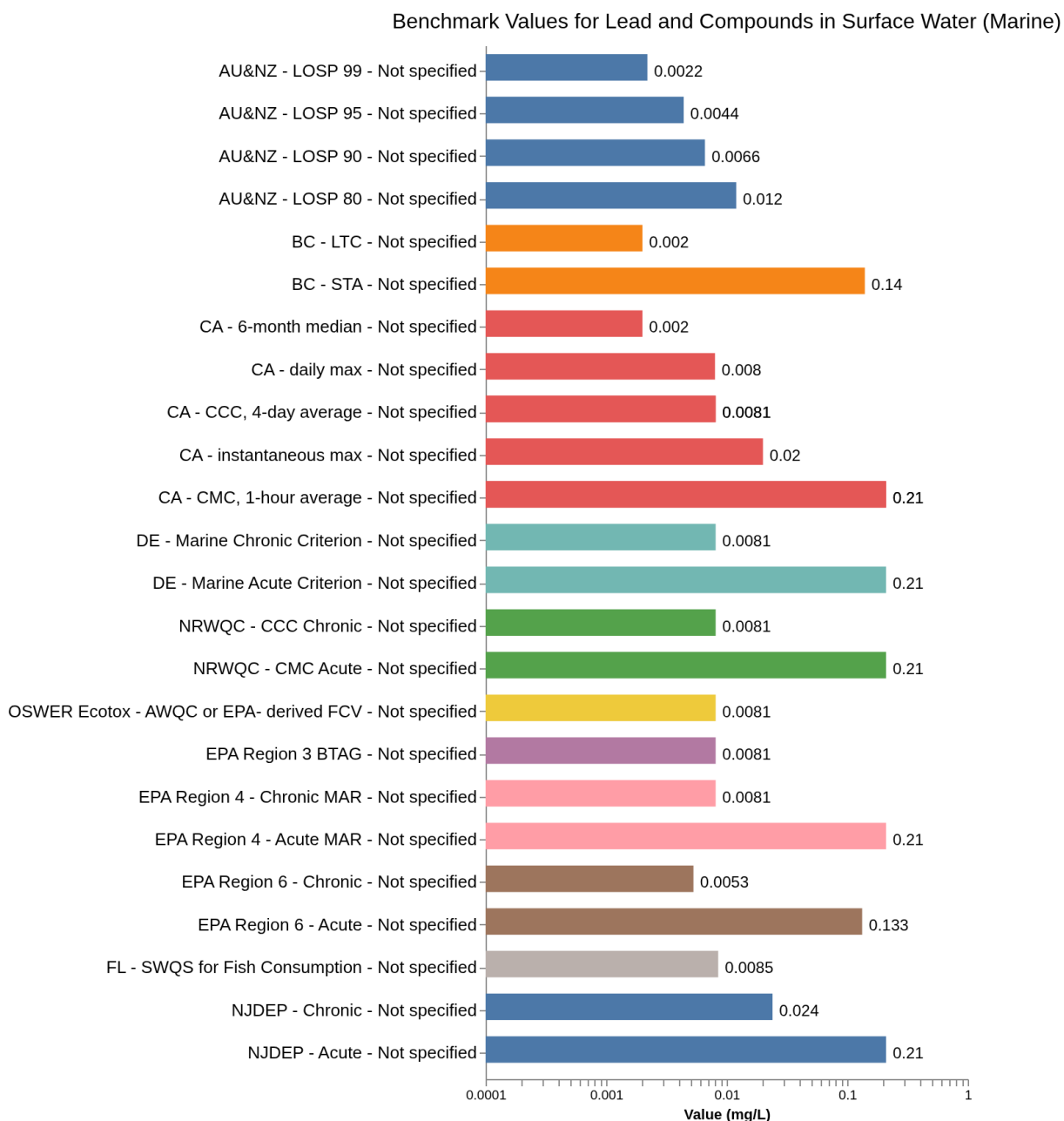


Table 220: Benchmark Values for Linear alkyl benzene sulfates (LAS) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-08-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0001	83

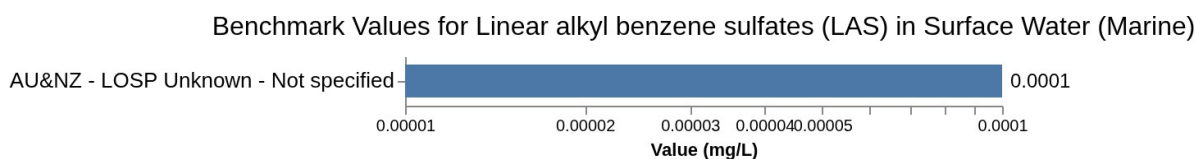
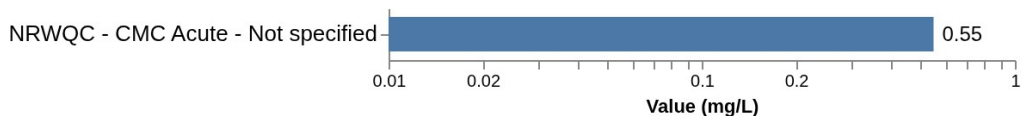


Table 221: Benchmark Values for Lithium perfluorooctanesulfonate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
29457-72-5	EPA NRWQC	Saltwater CMC Acute	Not specified	0.55	112

Benchmark Values for Lithium perfluorooctanesulfonate in Surface Water (Marine)**Table 222: Benchmark Values for Malathion in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-75-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.000002	82, 88
121-75-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.000050	82, 83
121-75-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.000200	82, 83
121-75-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.001100	82, 83
121-75-5	California	Saltwater instantaneous max	Not specified	0.000100	
121-75-5	California	Saltwater CMC, 1-hour average	Not specified	0.000340	
121-75-5	Delaware	Marine Chronic Criterion	Not specified	0.000100	
121-75-5	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000100	
121-75-5	EPA Region 3	BTAG – Marine	Not specified	0.000100	
121-75-5	EPA Region 4	Chronic Marine	Not specified	0.000100	
121-75-5	EPA Region 4	Acute Marine	Not specified	0.001000	
121-75-5	EPA Region 6	Saltwater Chronic	Not specified	0.000010	
121-75-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000100	
121-75-5	New Jersey	Marine Chronic	Not specified	0.000100	

Benchmark Values for Malathion in Surface Water (Marine)

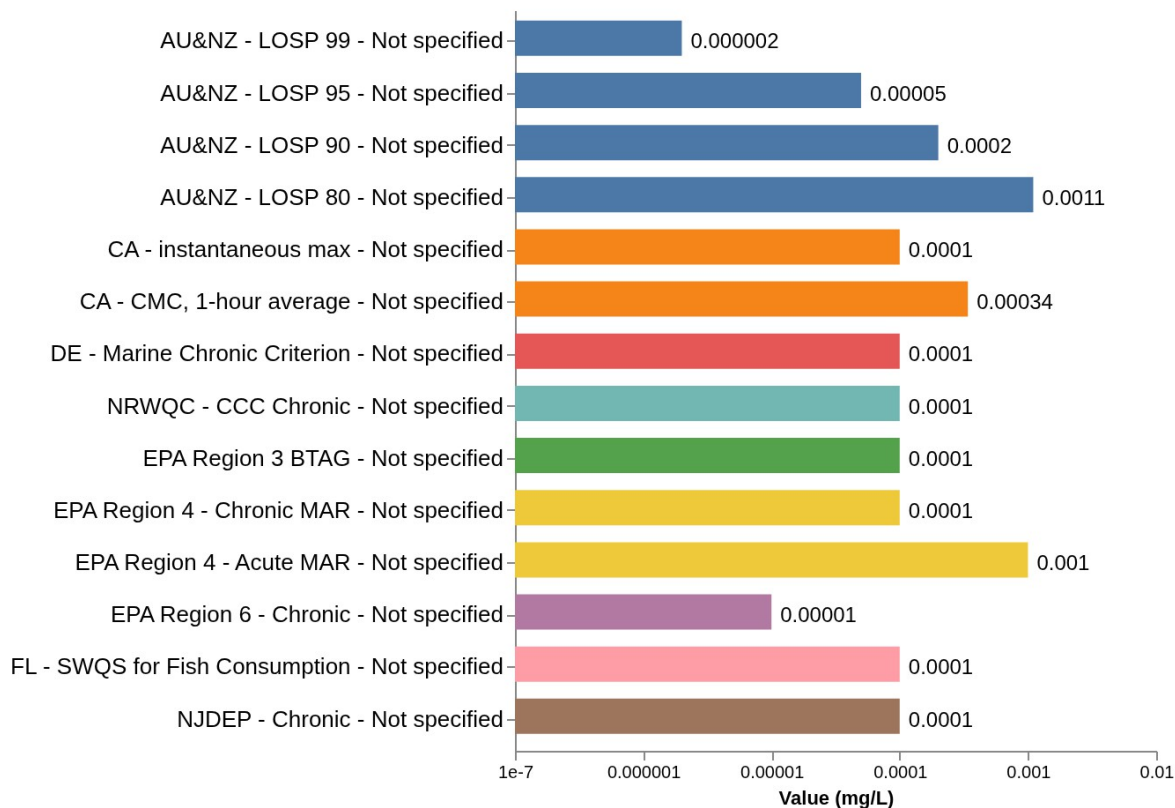


Table 223: Benchmark Values for Manganese (Diet) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-96-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.08	83
7439-96-5	EPA Region 4	Chronic Marine	Not specified	0.10	

Benchmark Values for Manganese (Diet) in Surface Water (Marine)

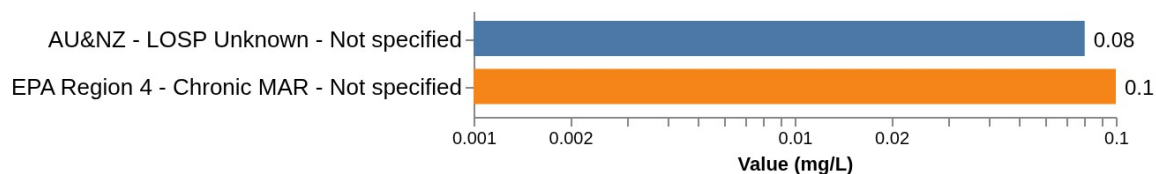


Table 224: Benchmark Values for Mercury (elemental) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-97-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.000100	85, 89, 97
7439-97-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.000400	85, 90, 97
7439-97-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.000700	85, 94, 97
7439-97-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.001400	85, 94, 97
7439-97-6	California	Marine 6-month median	Not specified	0.000040	218
7439-97-6	California	Marine daily max	Not specified	0.000160	218
7439-97-6	California	Marine instantaneous max	Not specified	0.000400	218
7439-97-6	California	Saltwater CCC, 4-day average	Not specified	0.000940	214
7439-97-6	California	Saltwater CMC, 1-hour average	Not specified	0.001800	214
7439-97-6	Canada	Marine Long Term	Not specified	0.000016	
7439-97-6	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.000940	
7439-97-6	EPA NRWQC	Saltwater CMC Acute	Not specified	0.001800	
7439-97-6	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.001100	
7439-97-6	EPA Region 3	BTAG – Marine	Not specified	0.000016	
7439-97-6	EPA Region 4	Chronic Marine	Aquatic only	0.000940	1, 7
7439-97-6	EPA Region 4	Chronic Marine	Wildlife only	0.000940	7
7439-97-6	EPA Region 4	Acute Marine	Wildlife only	0.001800	7
7439-97-6	EPA Region 4	Acute Marine	Aquatic only	0.001800	1, 7
7439-97-6	EPA Region 6	Saltwater Chronic	Not specified	0.001100	
7439-97-6	EPA Region 6	Saltwater Acute	Not specified	0.002100	
7439-97-6	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000025	
7439-97-6	New Jersey	Marine Chronic	Not specified	0.000940	199, 200
7439-97-6	New Jersey	Marine Acute	Not specified	0.001800	199, 200

Benchmark Values for Mercury (elemental) in Surface Water (Marine)

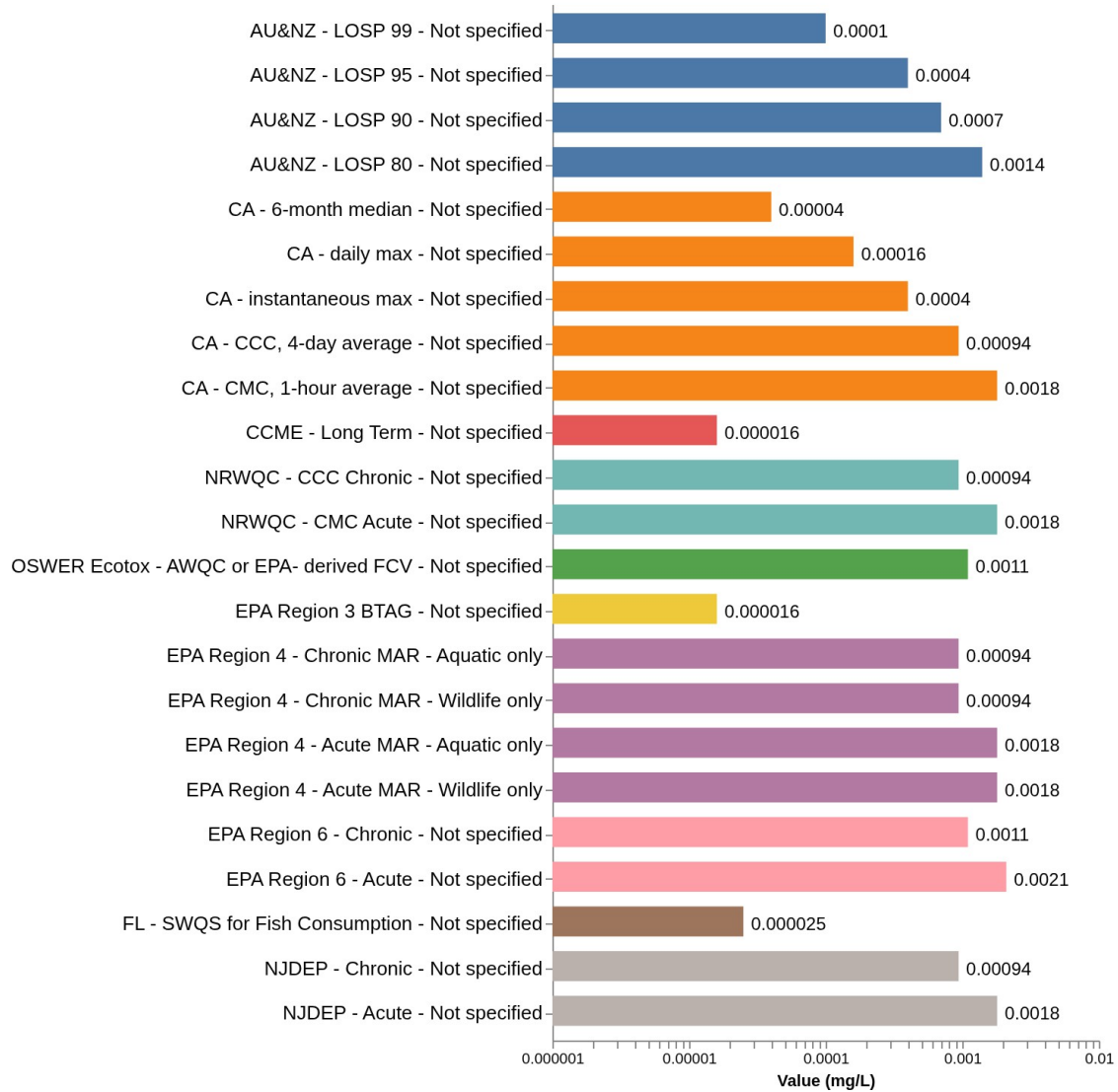


Table 225: Benchmark Values for Mercury, Inorganic Salts in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-01-7	Delaware	Marine Chronic Criterion	Not specified	0.00094	236
000000-01-7	Delaware	Marine Acute Criterion	Not specified	0.00180	236

Benchmark Values for Mercury, Inorganic Salts in Surface Water (Marine)

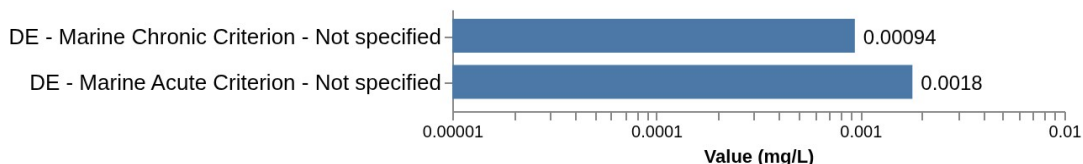


Table 226: Benchmark Values for Methanol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
67-56-1	EPA Region 4	Chronic Marine	Not specified	112.652
67-56-1	EPA Region 4	Acute Marine	Not specified	369.551

Benchmark Values for Methanol in Surface Water (Marine)

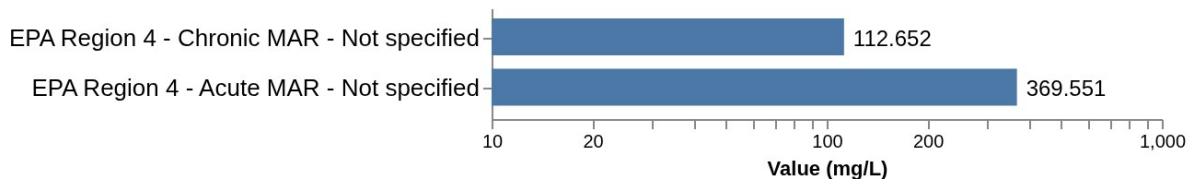


Table 227: Benchmark Values for Methomyl in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16752-77-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.0005	82, 87
16752-77-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.0035	82, 83
16752-77-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.0095	82, 83
16752-77-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.0230	82, 83

Benchmark Values for Methomyl in Surface Water (Marine)

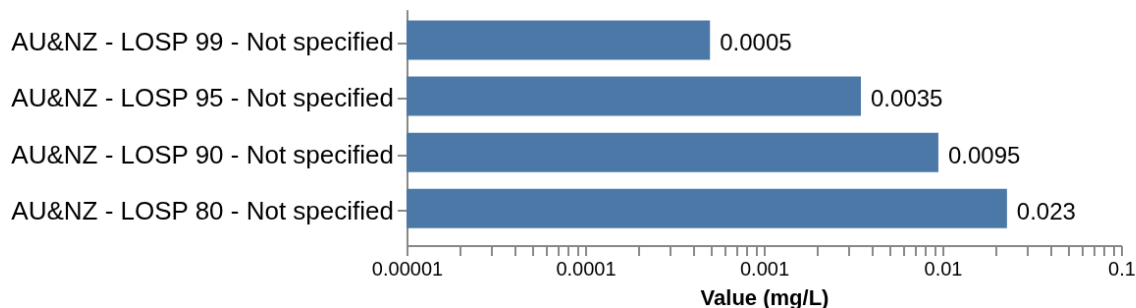


Table 228: Benchmark Values for Methoprene, S- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
65733-16-6	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0002	82, 83

Benchmark Values for Methoprene, S- in Surface Water (Marine)

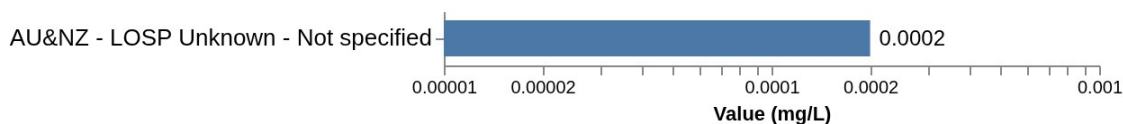


Table 229: Benchmark Values for Methoxychlor in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-43-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.00004	83, 101
72-43-5	California	Saltwater instantaneous max	Not specified	0.00003	
72-43-5	Delaware	Marine Chronic Criterion	Not specified	0.00003	
72-43-5	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.00003	
72-43-5	EPA Region 3	BTAG - Marine	Not specified	0.00003	
72-43-5	EPA Region 4	Chronic Marine	Not specified	0.00003	7
72-43-5	EPA Region 6	Saltwater Chronic	Not specified	0.00003	
72-43-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.00003	
72-43-5	New Jersey	Marine Chronic	Not specified	0.00003	

Benchmark Values for Methoxychlor in Surface Water (Marine)

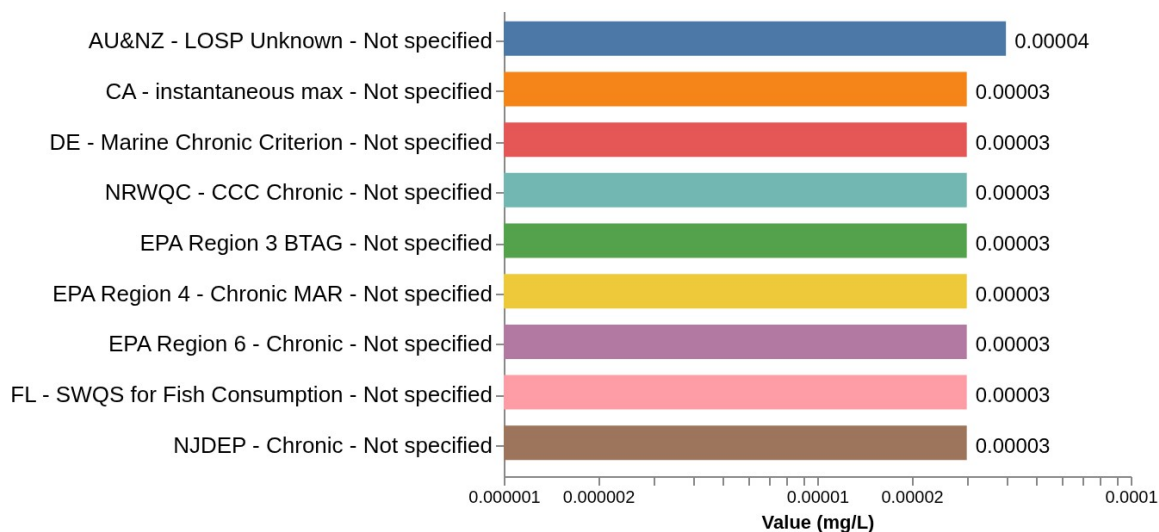
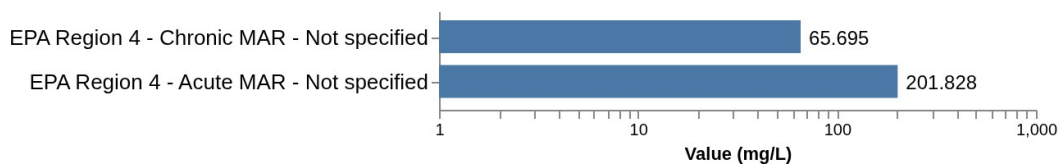


Table 230: Benchmark Values for Methyl Ethyl Ketone (2-Butanone) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-93-3	EPA Region 4	Chronic Marine	Not specified	65.695
78-93-3	EPA Region 4	Acute Marine	Not specified	201.828

Benchmark Values for Methyl Ethyl Ketone (2-Butanone) in Surface Water (Marine)**Table 231: Benchmark Values for Methyl Isobutyl Ketone (4-methyl-2-pentanone) in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
108-10-1	EPA Region 3	BTAG – Marine	Not specified	123.000
108-10-1	EPA Region 4	Chronic Marine	Not specified	19.142
108-10-1	EPA Region 4	Acute Marine	Not specified	65.872
108-10-1	EPA Region 6	Saltwater Chronic	Not specified	61.500
108-10-1	EPA Region 6	Saltwater Acute	Not specified	369.000

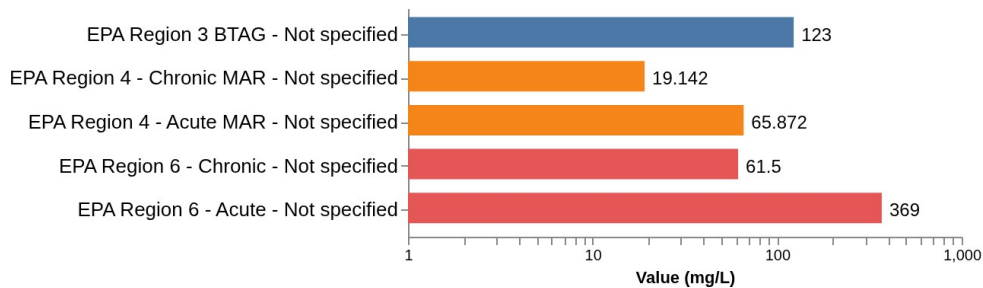
Benchmark Values for Methyl Isobutyl Ketone (4-methyl-2-pentanone) in Surface Water (Marine)

Table 232: Benchmark Values for Methyl tert-Butyl Ether (MTBE) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
1634-04-4	British Columbia	Marine STA	Not specified	0.440
1634-04-4	California	Saltwater CCC, 4-day average	Not specified	18.000
1634-04-4	California	Saltwater CMC, 1-hour average	Not specified	53.000
1634-04-4	Canada	Marine Long Term	Not specified	5.000
1634-04-4	EPA Region 4	Chronic Marine	Not specified	5.000
1634-04-4	EPA Region 4	Acute Marine	Not specified	38.037
1634-04-4	EPA Region 6	Saltwater Chronic	Not specified	18.000
1634-04-4	EPA Region 6	Saltwater Acute	Not specified	53.000

Benchmark Values for Methyl tert-Butyl Ether (MTBE) in Surface Water (Marine)

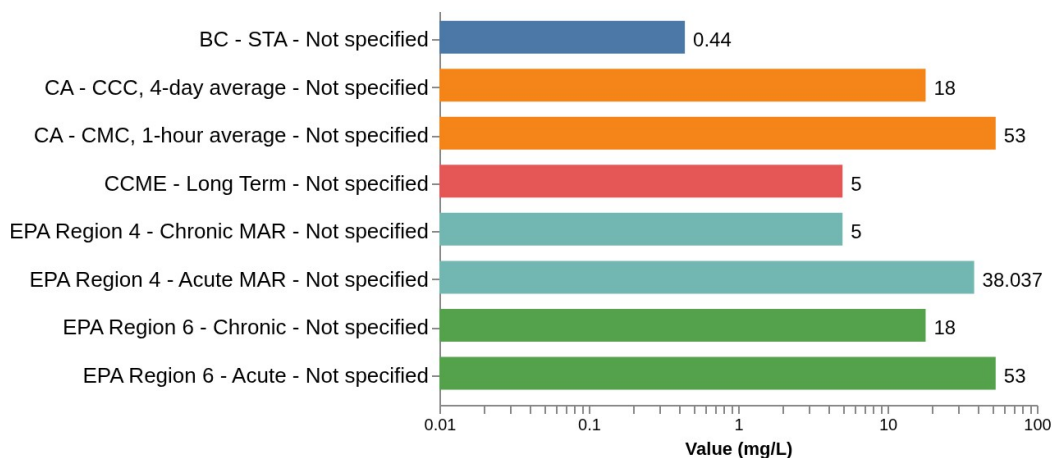


Table 233: Benchmark Values for Methyl-6-chlorophenol, 3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
615-74-7	California	Marine 6-month median	Not specified	0.001	219
615-74-7	California	Marine daily max	Not specified	0.004	219
615-74-7	California	Marine instantaneous max	Not specified	0.010	219

Benchmark Values for Methyl-6-chlorophenol, 3- in Surface Water (Marine)

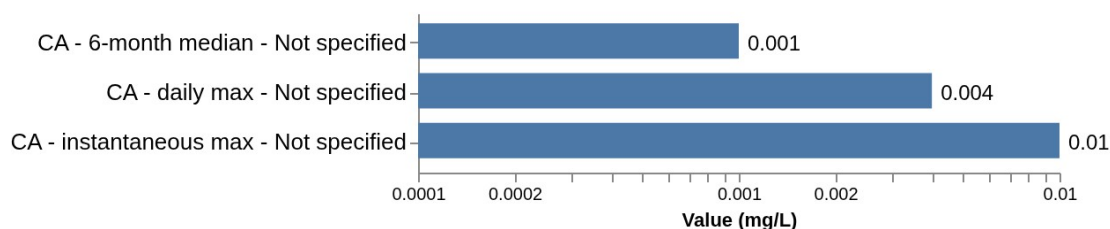


Table 234: Benchmark Values for Methylamine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-89-5	EPA Region 4	Chronic Marine	Not specified	1.727
74-89-5	EPA Region 4	Acute Marine	Not specified	14.164

Benchmark Values for Methylamine in Surface Water (Marine)

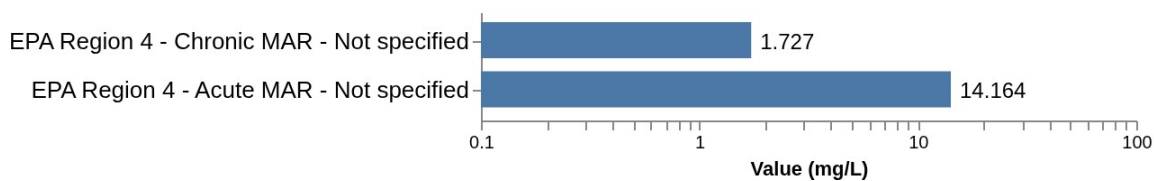


Table 235: Benchmark Values for Methylcyclohexane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-87-2	EPA Region 4	Chronic Marine	Not specified	0.052
108-87-2	EPA Region 4	Acute Marine	Not specified	0.421

Benchmark Values for Methylcyclohexane in Surface Water (Marine)

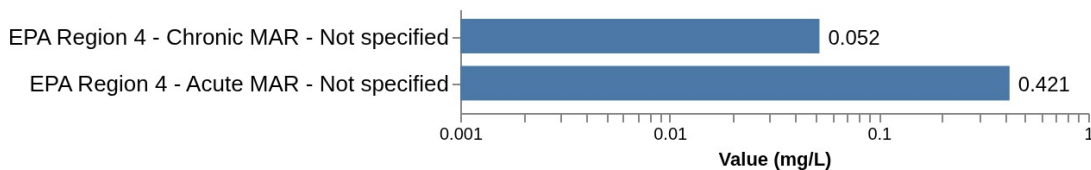


Table 236: Benchmark Values for Methylene Chloride in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-09-2	Australia and New Zealand	Marine LOSP 99	Not specified	3.00	83
75-09-2	Australia and New Zealand	Marine LOSP 95	Not specified	4.00	83, 89
75-09-2	Australia and New Zealand	Marine LOSP 90	Not specified	5.00	83
75-09-2	Australia and New Zealand	Marine LOSP 80	Not specified	7.00	83
75-09-2	California	Saltwater chronic	Not specified	6.40	
75-09-2	California	Saltwater other toxicity	Not specified	11.50	
75-09-2	California	Saltwater acute	Not specified	12.00	
75-09-2	EPA Region 3	BTAG – Marine	Not specified	2.56	
75-09-2	EPA Region 4	Chronic Marine	Not specified	1.58	
75-09-2	EPA Region 4	Acute Marine	Not specified	25.60	
75-09-2	EPA Region 6	Saltwater Chronic	Not specified	10.85	
75-09-2	EPA Region 6	Saltwater Acute	Not specified	32.55	
75-09-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	1.58	

Benchmark Values for Methylene Chloride in Surface Water (Marine)

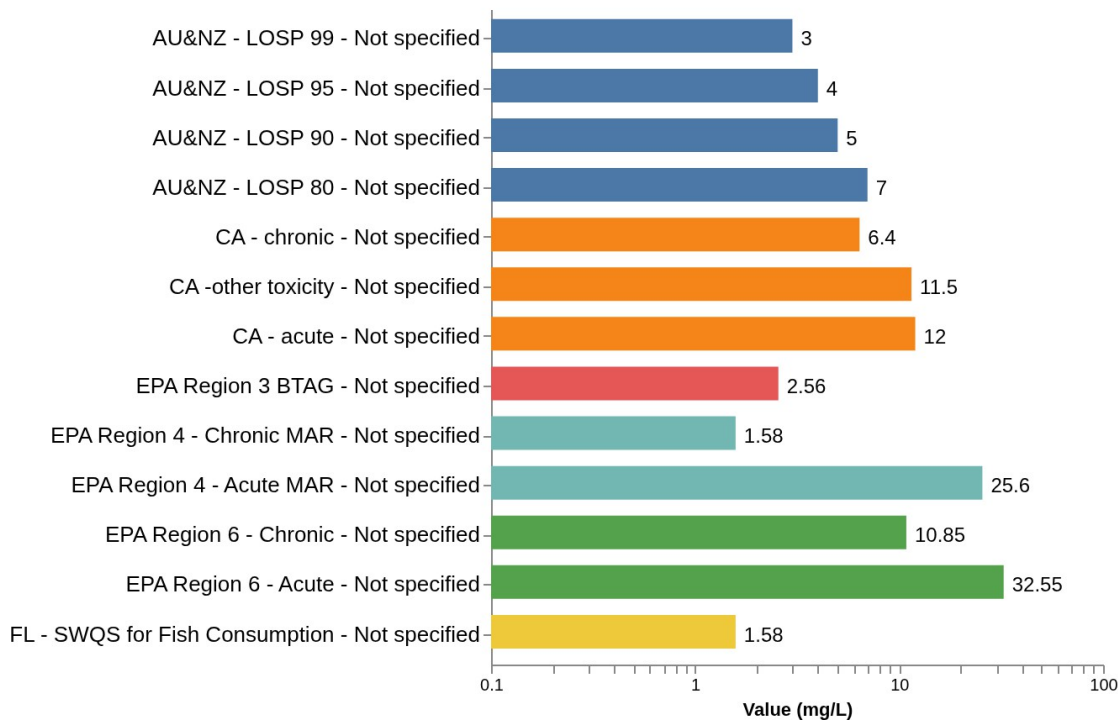


Table 237: Benchmark Values for Methylnaphthalene, 1– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
90–12–0	EPA Region 4	Chronic Marine	Not specified	0.052
90–12–0	EPA Region 4	Acute Marine	Not specified	0.157
90–12–0	EPA Region 6	Saltwater Chronic	Not specified	0.017
90–12–0	EPA Region 6	Saltwater Acute	Not specified	0.051

Benchmark Values for Methylnaphthalene, 1- in Surface Water (Marine)

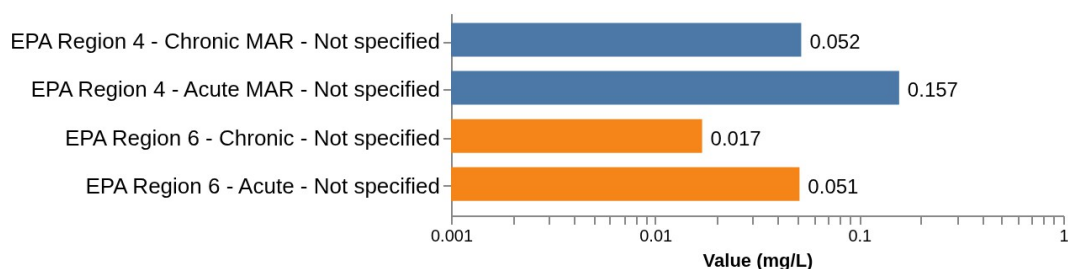


Table 238: Benchmark Values for Methylnaphthalene, 2– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
91–57–6	EPA Region 3	BTAG – Marine	Not specified	0.0042
91–57–6	EPA Region 4	Chronic Marine	Not specified	0.0520
91–57–6	EPA Region 4	Acute Marine	Not specified	0.1500
91–57–6	EPA Region 6	Saltwater Chronic	Not specified	0.0060
91–57–6	EPA Region 6	Saltwater Acute	Not specified	0.1800

Benchmark Values for Methylnaphthalene, 2- in Surface Water (Marine)

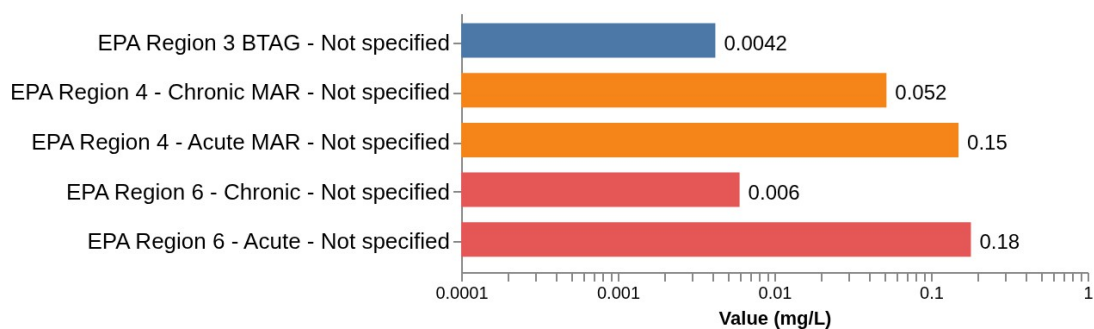
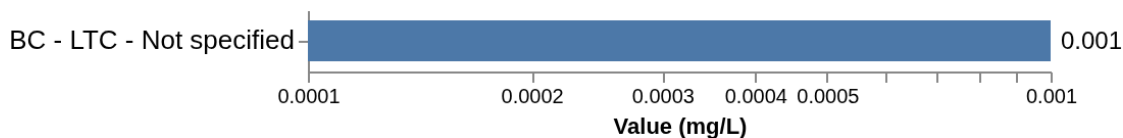
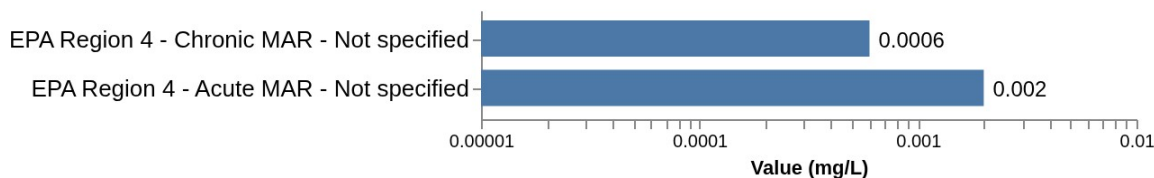


Table 239: Benchmark Values for Methylnaphthalene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1321-94-4	British Columbia	Marine LTC	Not specified	0.001	

Benchmark Values for Methylnaphthalene in Surface Water (Marine)**Table 240: Benchmark Values for Metolachlor in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
51218-45-2	EPA Region 4	Chronic Marine	Not specified	0.0006
51218-45-2	EPA Region 4	Acute Marine	Not specified	0.0020

Benchmark Values for Metolachlor in Surface Water (Marine)**Table 241: Benchmark Values for Mirex in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2385-85-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.000040	82, 83, 101
2385-85-5	California	Saltwater instantaneous max	Not specified	0.000001	
2385-85-5	Delaware	Marine Chronic Criterion	Not specified	0.000001	
2385-85-5	EPA Region 3	BTAG – Marine	Not specified	0.000001	
2385-85-5	EPA Region 4	Acute Marine	Aquatic only	0.000001	7
2385-85-5	EPA Region 4	Acute Marine	Wildlife only	0.000001	7
2385-85-5	EPA Region 4	Chronic Marine	Wildlife only	0.000001	7
2385-85-5	EPA Region 4	Chronic Marine	Aquatic only	0.000001	7
2385-85-5	EPA Region 6	Saltwater Chronic	Not specified	0.000001	
2385-85-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000001	
2385-85-5	New Jersey	Marine Chronic	Not specified	0.000001	

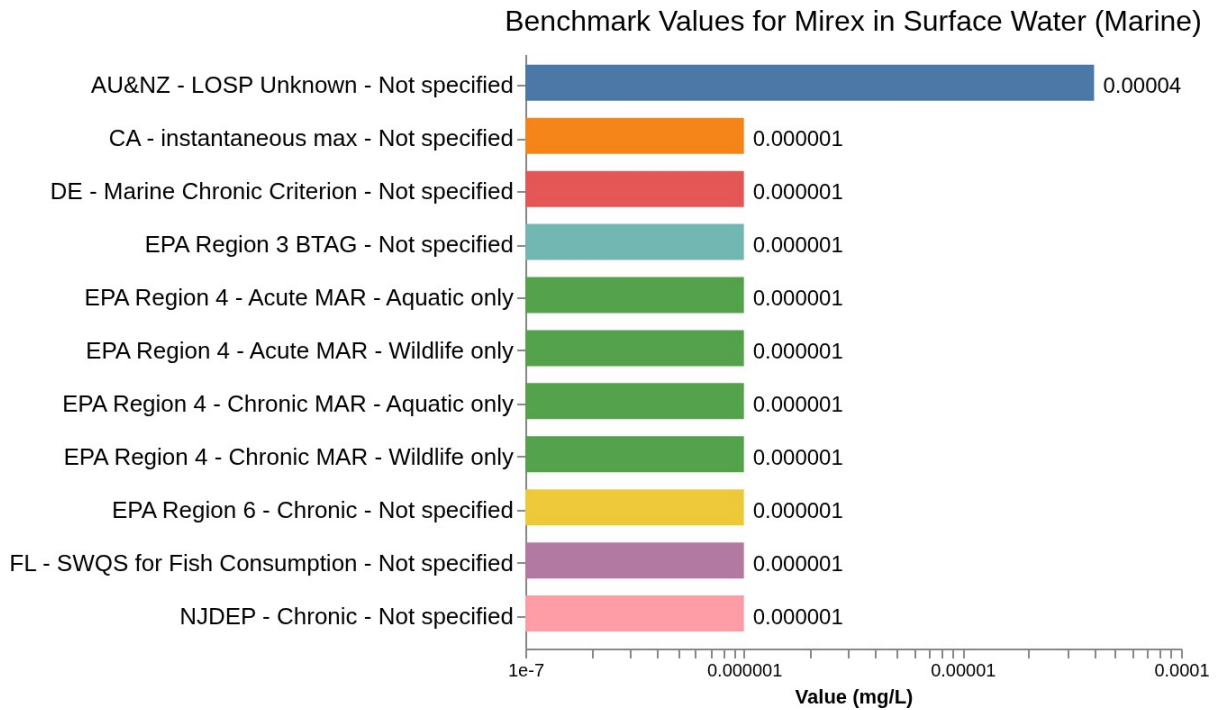


Table 242: Benchmark Values for Molinate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2212-67-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.00001	82, 87
2212-67-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.00340	82, 83
2212-67-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.01400	82, 83
2212-67-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.05700	82, 83

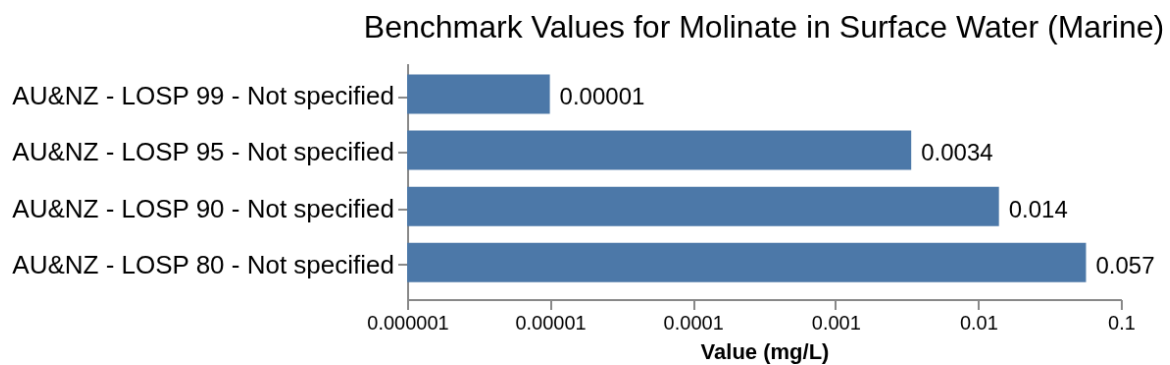


Table 243: Benchmark Values for Molybdenum in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-98-7	EPA Region 6	Saltwater Chronic	Not specified	3.85	21
7439-98-7	EPA Region 6	Saltwater Acute	Not specified	313.50	21

Benchmark Values for Molybdenum in Surface Water (Marine)

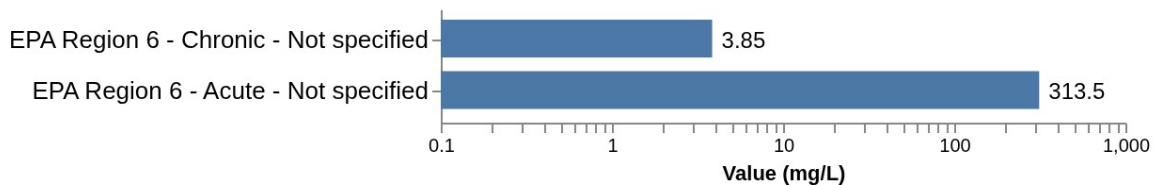


Table 244: Benchmark Values for Naphthalene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91-20-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.0500	88, 90
91-20-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.0700	88, 90
91-20-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.0900	88, 94
91-20-3	Australia and New Zealand	Marine LOSP 80	Not specified	0.1200	88, 94
91-20-3	British Columbia	Marine LTC	Not specified	0.0010	
91-20-3	California	Saltwater acute	Not specified	2.3500	
91-20-3	Canada	Marine Long Term	Not specified	0.0014	
91-20-3	EPA Region 3	BTAG – Marine	Not specified	0.0014	
91-20-3	EPA Region 4	Chronic Marine	Not specified	0.0014	
91-20-3	EPA Region 4	Acute Marine	Not specified	0.7800	
91-20-3	EPA Region 6	Saltwater Chronic	Not specified	0.1000	
91-20-3	EPA Region 6	Saltwater Acute	Not specified	0.3000	

Benchmark Values for Naphthalene in Surface Water (Marine)

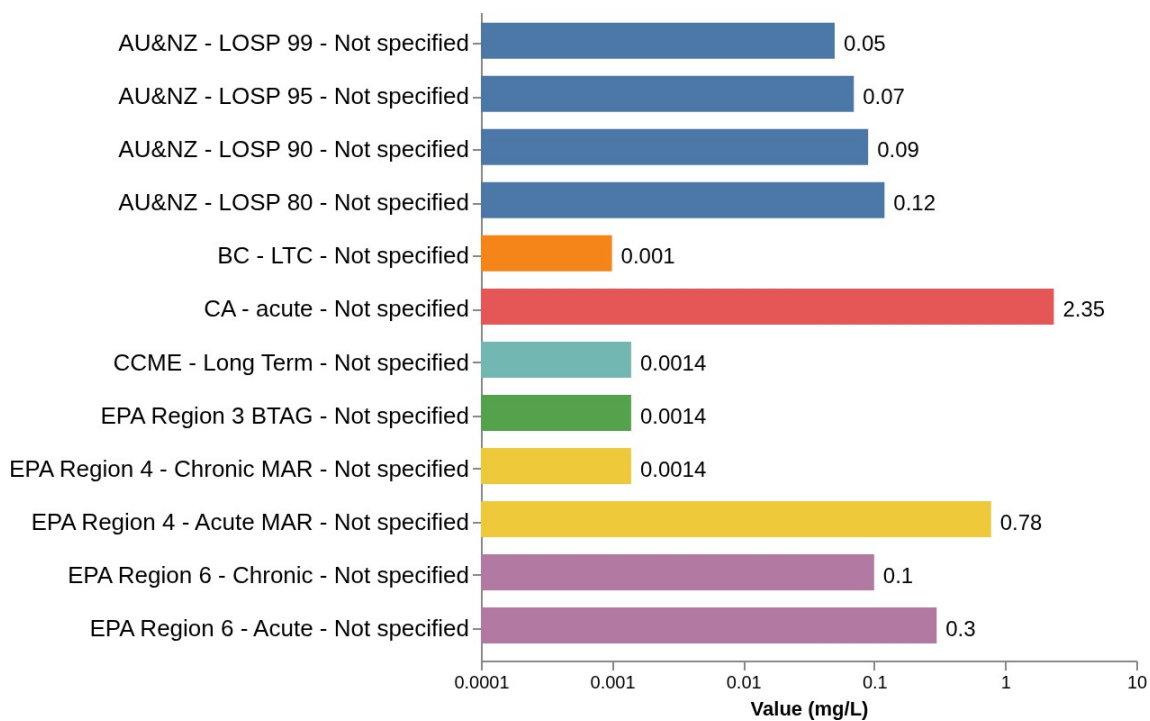


Table 245: Benchmark Values for Naphthalenes, -chlorinated in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
25586-43-0	California	Saltwater acute	Not specified	0.0075

Benchmark Values for Naphthalenes, -chlorinated in Surface Water (Marine)

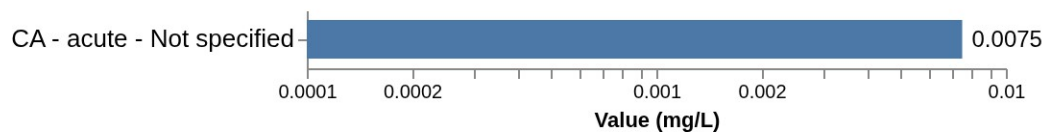


Table 246: Benchmark Values for Nickel Soluble Salts in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-02-0	Australia and New Zealand	Marine LOSP 99	Not specified	0.0070	85, 89
7440-02-0	Australia and New Zealand	Marine LOSP 95	Not specified	0.0700	85, 90
7440-02-0	Australia and New Zealand	Marine LOSP 90	Not specified	0.2000	85, 92
7440-02-0	Australia and New Zealand	Marine LOSP 80	Not specified	0.5600	85, 92
7440-02-0	California	Marine 6-month median	Not specified	0.0050	218
7440-02-0	California	Saltwater CCC, 4-day average	Not specified	0.0082	214, 216
7440-02-0	California	Marine daily max	Not specified	0.0200	218
7440-02-0	California	Marine instantaneous max	Not specified	0.0500	218
7440-02-0	California	Saltwater CMC, 1-hour average	Not specified	0.0740	214
7440-02-0	California	Saltwater CMC, 1-hour average	Not specified	0.0740	214, 216
7440-02-0	Delaware	Marine Chronic Criterion	Not specified	0.0082	236
7440-02-0	Delaware	Marine Acute Criterion	Not specified	0.0740	236
7440-02-0	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0082	
7440-02-0	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0740	
7440-02-0	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0082	
7440-02-0	EPA Region 3	BTAG – Marine	Not specified	0.0082	
7440-02-0	EPA Region 4	Chronic Marine	Not specified	0.0082	1, 2
7440-02-0	EPA Region 4	Acute Marine	Not specified	0.0740	1, 2
7440-02-0	EPA Region 6	Saltwater Chronic	Not specified	0.0131	21
7440-02-0	EPA Region 6	Saltwater Acute	Not specified	0.1180	21
7440-02-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0083	
7440-02-0	New Jersey	Marine Chronic	Not specified	0.0220	199, 200
7440-02-0	New Jersey	Marine Acute	Not specified	0.0640	199, 200

Benchmark Values for Nickel Soluble Salts in Surface Water (Marine)

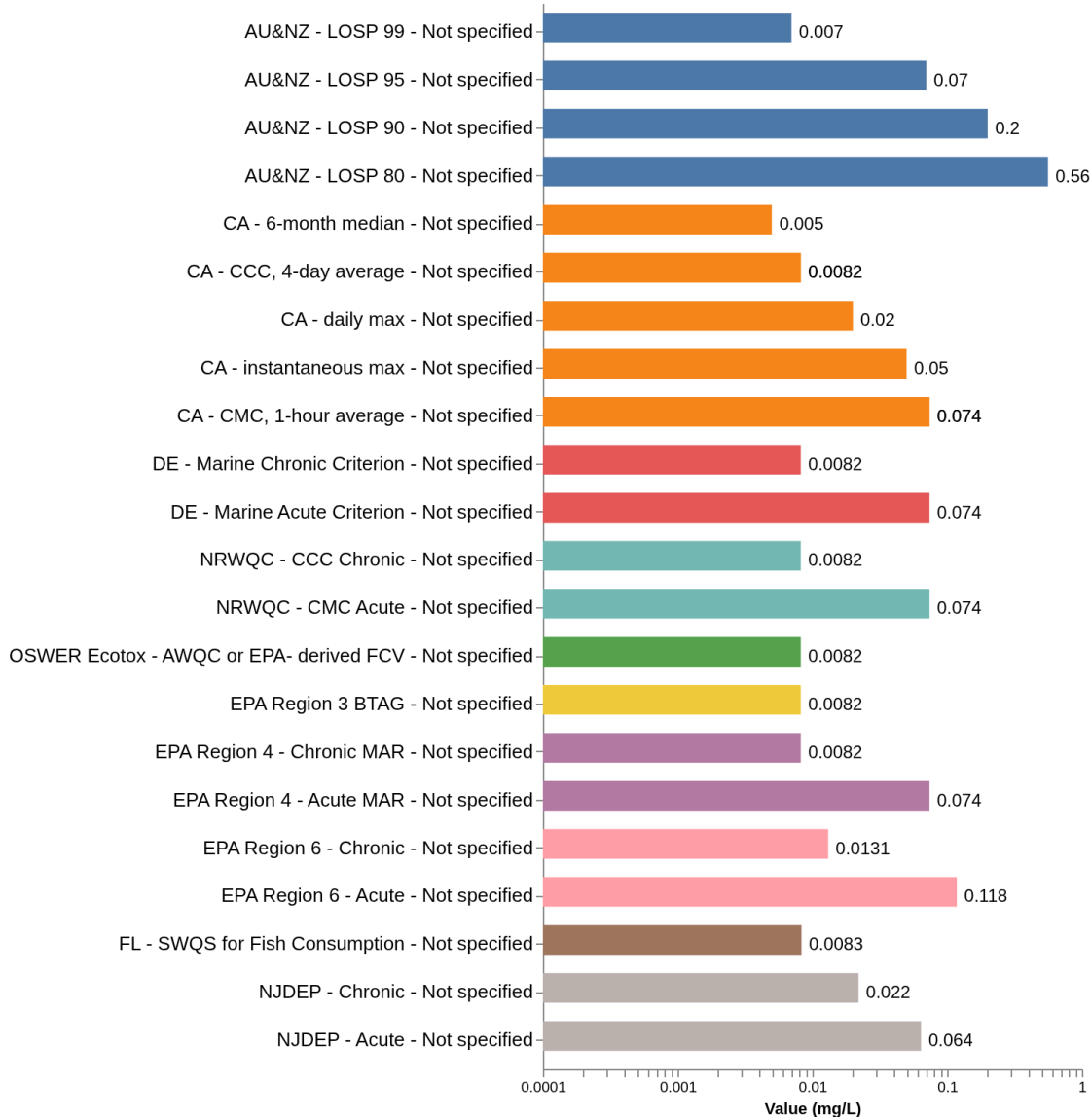


Table 247: Benchmark Values for Nitrate (measured as nitrogen) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
14797-55-8	British Columbia	Marine LTC	Not specified	0.0037
14797-55-8	Canada	Marine Long Term	Not specified	200.0000
14797-55-8	Canada	Marine Short Term	Not specified	1500.0000
14797-55-8	EPA Region 6	Saltwater Chronic	Not specified	200.0000
14797-55-8	EPA Region 6	Saltwater Acute	Not specified	1500.0000

Benchmark Values for Nitrate (measured as nitrogen) in Surface Water (Marine)

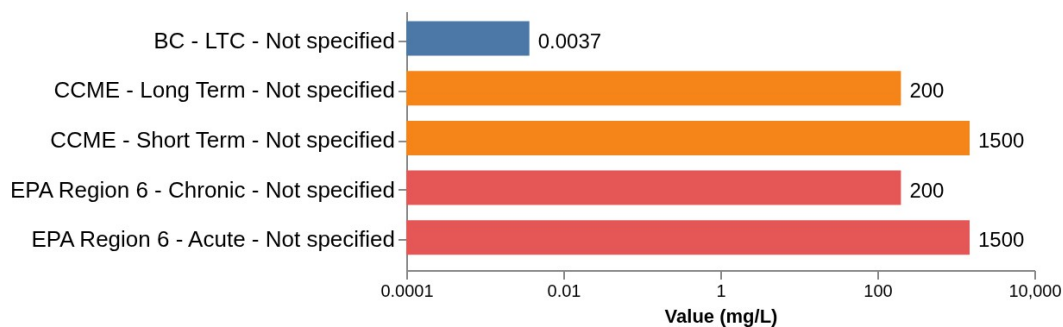


Table 248: Benchmark Values for Nitroaniline, 2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
88-74-4	EPA Region 4	Chronic Marine	Not specified	0.017
88-74-4	EPA Region 4	Acute Marine	Not specified	0.494

Benchmark Values for Nitroaniline, 2- in Surface Water (Marine)

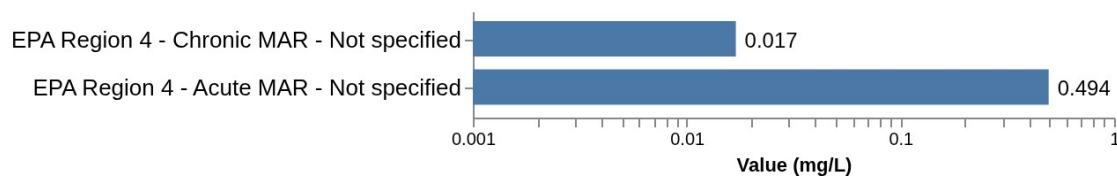


Table 249: Benchmark Values for Nitrobenzene, 1-chloro-3- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-73-3	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.012	82, 83

Benchmark Values for Nitrobenzene, 1-chloro-3- in Surface Water (Marine)

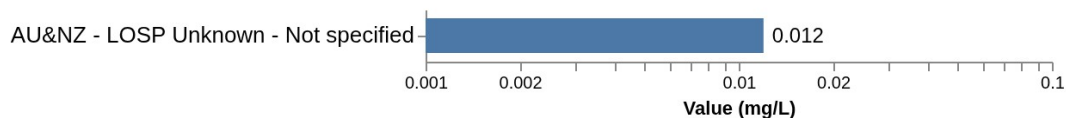


Table 250: Benchmark Values for Nitrobenzene, 1-methoxy-2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91-23-6	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.13	82, 83

Benchmark Values for Nitrobenzene, 1-methoxy-2- in Surface Water (Marine)

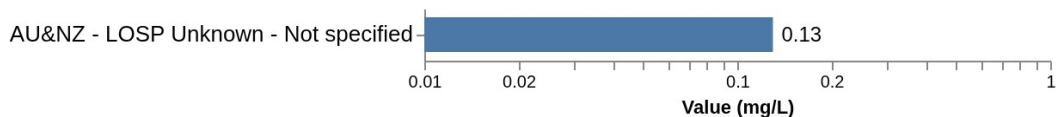


Table 251: Benchmark Values for Nitrobenzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98-95-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.2300	82, 87
98-95-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.5500	82, 83
98-95-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.8200	82, 83
98-95-3	Australia and New Zealand	Marine LOSP 80	Not specified	1.3000	82, 83
98-95-3	California	Saltwater acute	Not specified	6.6800	
98-95-3	EPA Region 3	BTAG – Marine	Not specified	0.0668	
98-95-3	EPA Region 4	Chronic Marine	Not specified	1.0460	
98-95-3	EPA Region 4	Acute Marine	Not specified	2.0000	
98-95-3	EPA Region 6	Saltwater Chronic	Not specified	1.4000	
98-95-3	EPA Region 6	Saltwater Acute	Not specified	4.2000	

Benchmark Values for Nitrobenzene in Surface Water (Marine)

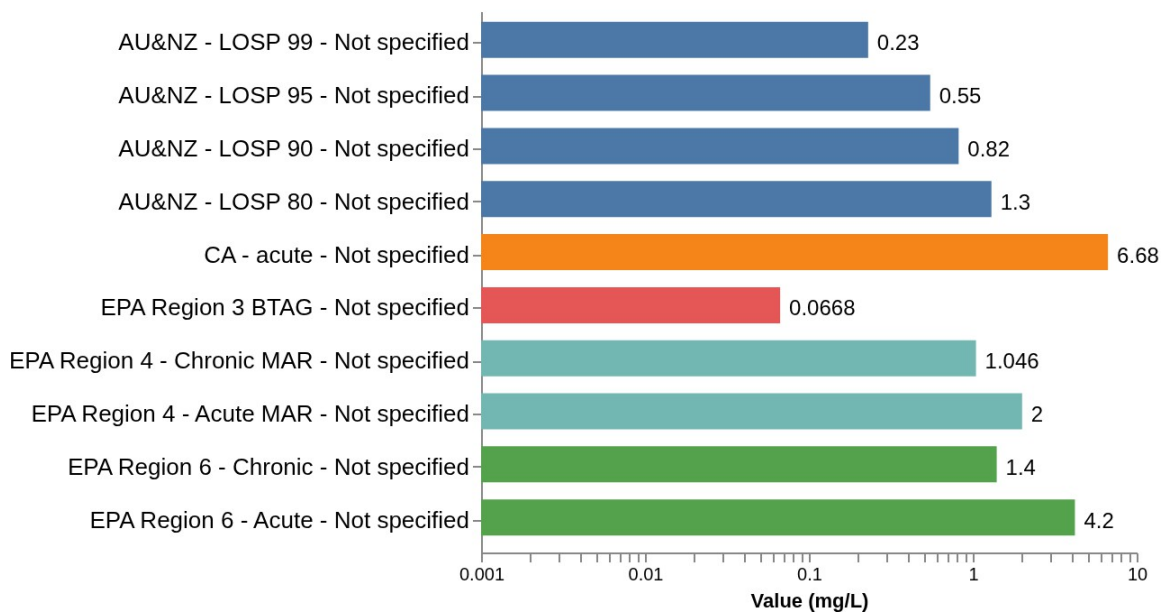


Table 252: Benchmark Values for Nitroglycerin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
55-63-0	EPA Region 4	Chronic Marine	Not specified	0.239
55-63-0	EPA Region 4	Acute Marine	Not specified	0.991
55-63-0	EPA Region 6	Saltwater Chronic	Not specified	0.239
55-63-0	EPA Region 6	Saltwater Acute	Not specified	0.991

Benchmark Values for Nitroglycerin in Surface Water (Marine)

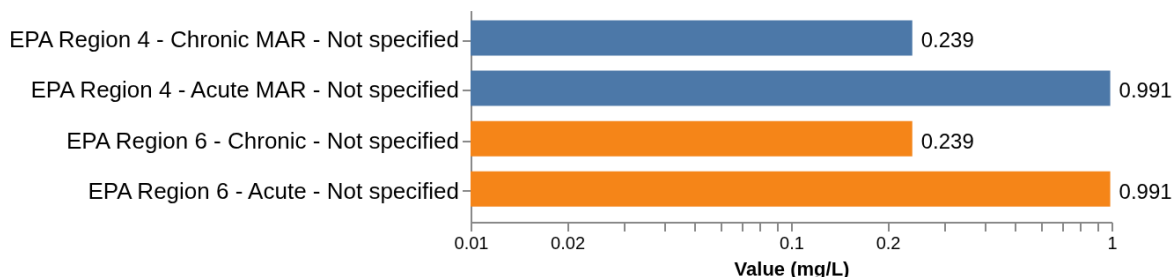


Table 253: Benchmark Values for Nitrophenol, 2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-75-5	California	Marine 6-month median	Not specified	0.030	218
88-75-5	California	Marine daily max	Not specified	0.120	218
88-75-5	California	Marine instantaneous max	Not specified	0.300	218
88-75-5	California	Saltwater acute	Not specified	4.850	
88-75-5	EPA Region 3	BTAG - Marine	Not specified	2.940	
88-75-5	EPA Region 4	Chronic Marine	Not specified	0.900	
88-75-5	EPA Region 4	Acute Marine	Not specified	4.101	
88-75-5	EPA Region 6	Saltwater Chronic	Not specified	1.470	
88-75-5	EPA Region 6	Saltwater Acute	Not specified	8.818	

Benchmark Values for Nitrophenol, 2- in Surface Water (Marine)

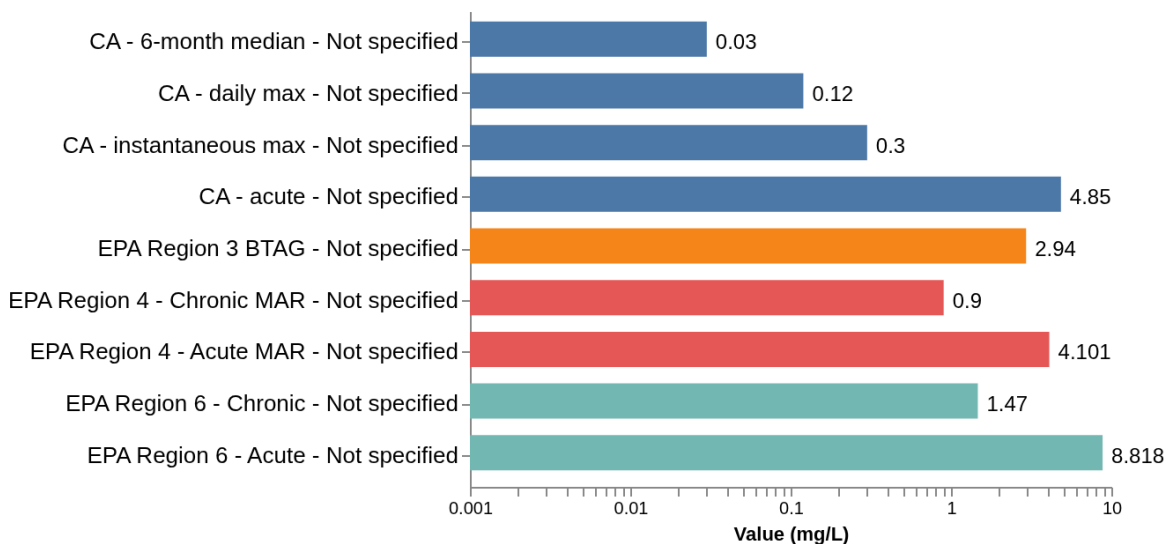


Table 254: Benchmark Values for Nitrophenol, 4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-02-7	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0580	82, 83
100-02-7	California	Marine 6-month median	Not specified	0.0300	218
100-02-7	California	Marine daily max	Not specified	0.1200	218
100-02-7	California	Marine instantaneous max	Not specified	0.3000	218
100-02-7	California	Saltwater acute	Not specified	4.8500	
100-02-7	EPA Region 3	BTAG – Marine	Not specified	0.0717	
100-02-7	EPA Region 4	Chronic Marine	Not specified	0.6000	
100-02-7	EPA Region 4	Acute Marine	Not specified	3.5850	
100-02-7	EPA Region 6	Saltwater Chronic	Not specified	0.3590	
100-02-7	EPA Region 6	Saltwater Acute	Not specified	2.1510	

Benchmark Values for Nitrophenol, 4- in Surface Water (Marine)

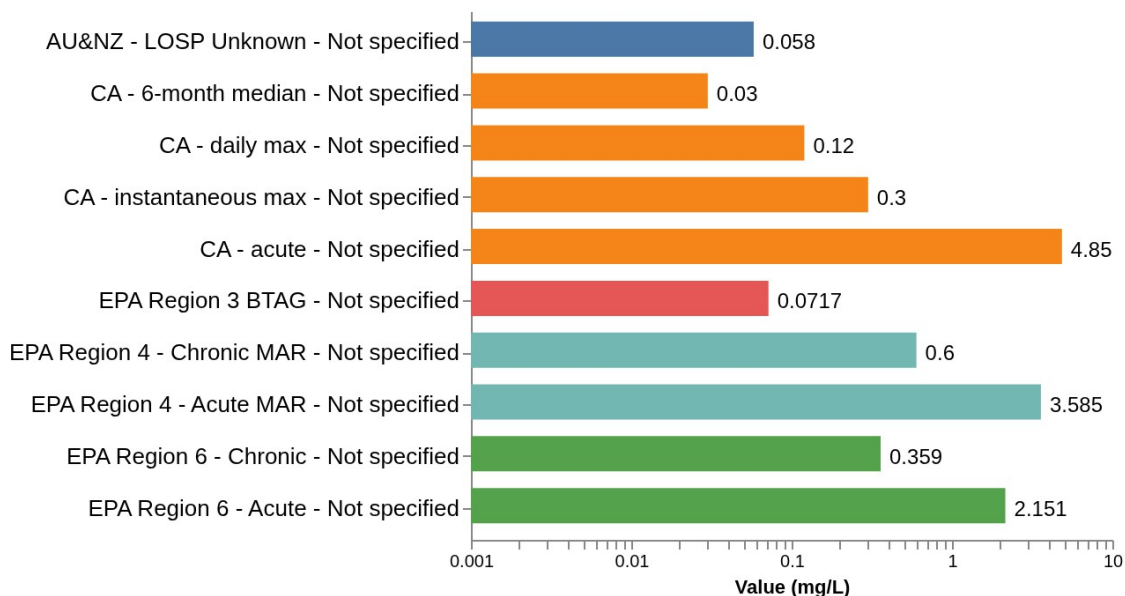


Table 255: Benchmark Values for Nitrophenols in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-47-8	California	Marine 6-month median	Not specified	0.03	218
000000-47-8	California	Marine daily max	Not specified	0.12	218
000000-47-8	California	Marine instantaneous max	Not specified	0.30	218
000000-47-8	California	Saltwater acute	Not specified	4.85	

Benchmark Values for Nitrophenols in Surface Water (Marine)

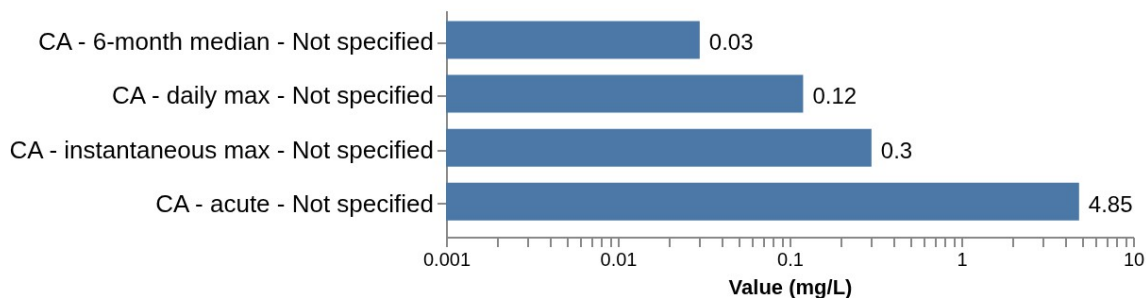


Table 256: Benchmark Values for Nitrosamines in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-08-7	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosamines in Surface Water (Marine)

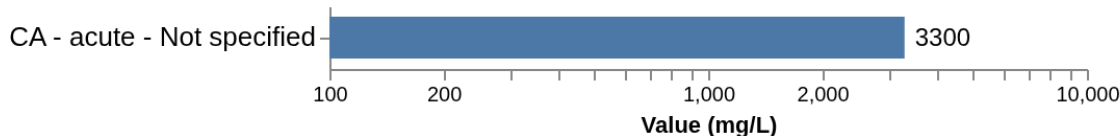


Table 257: Benchmark Values for Nitrosodibutylamine, N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
924-16-3	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosodibutylamine, N- in Surface Water (Marine)

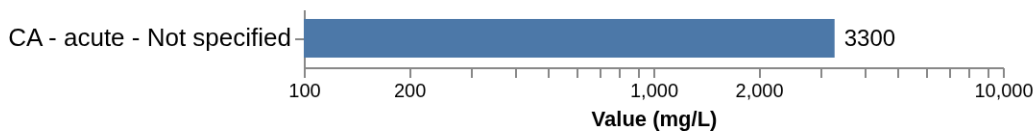


Table 258: Benchmark Values for Nitrosodiethanolamine, N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
1116-54-7	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosodiethanolamine, N- in Surface Water (Marine)

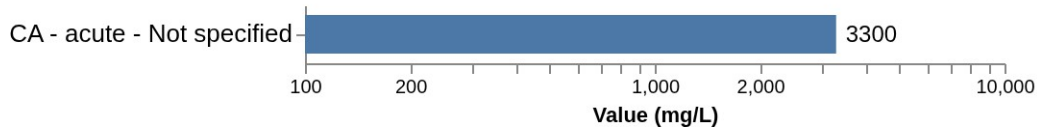
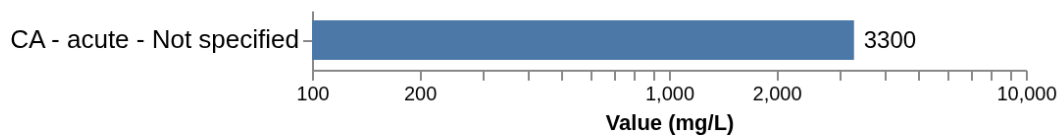
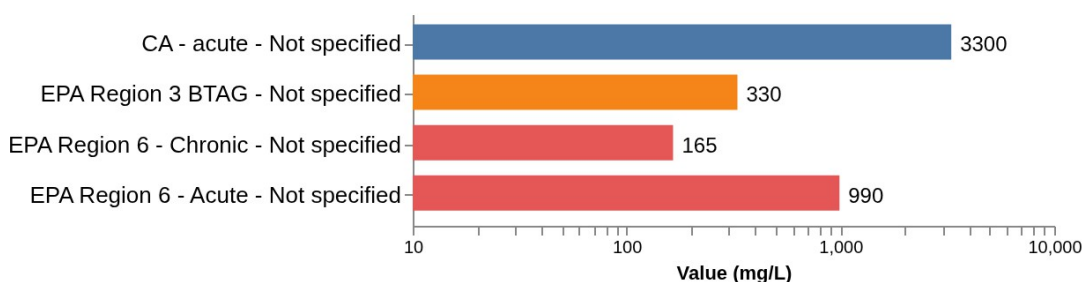


Table 259: Benchmark Values for Nitrosodiethylamine, N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
55-18-5	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosodiethylamine, N- in Surface Water (Marine)**Table 260: Benchmark Values for Nitrosodimethylamine, N- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
62-75-9	California	Saltwater acute	Not specified	3300.0
62-75-9	EPA Region 3	BTAG – Marine	Not specified	330.0
62-75-9	EPA Region 6	Saltwater Chronic	Not specified	165.0
62-75-9	EPA Region 6	Saltwater Acute	Not specified	990.0

Benchmark Values for Nitrosodimethylamine, N- in Surface Water (Marine)**Table 261: Benchmark Values for Nitrosodiphenylamine, N- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
86-30-6	California	Saltwater acute	Not specified	3300.000
86-30-6	EPA Region 3	BTAG – Marine	Not specified	33.000
86-30-6	EPA Region 4	Chronic Marine	Not specified	0.048
86-30-6	EPA Region 4	Acute Marine	Not specified	0.283
86-30-6	EPA Region 6	Saltwater Chronic	Not specified	165.000
86-30-6	EPA Region 6	Saltwater Acute	Not specified	990.000

Benchmark Values for Nitrosodiphenylamine, N- in Surface Water (Marine)

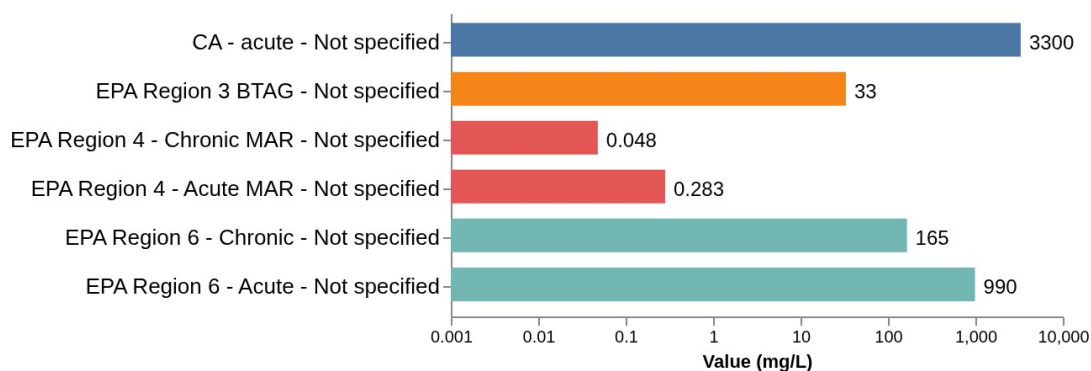


Table 262: Benchmark Values for Nitrosodiphenylamine, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
156-10-5	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosodiphenylamine, p- in Surface Water (Marine)

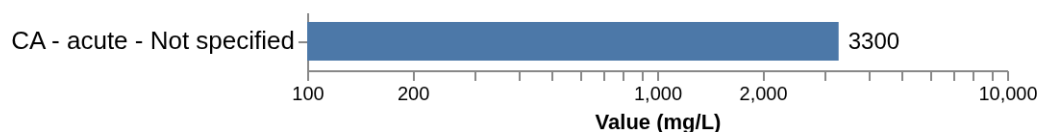


Table 263: Benchmark Values for Nitrosodipropylamine, N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
621-64-7	California	Saltwater acute	Not specified	3300.00
621-64-7	EPA Region 3	BTAG - Marine	Not specified	0.12
621-64-7	EPA Region 6	Saltwater Chronic	Not specified	0.12
621-64-7	EPA Region 6	Saltwater Acute	Not specified	3.60

Benchmark Values for Nitrosodipropylamine, N- in Surface Water (Marine)

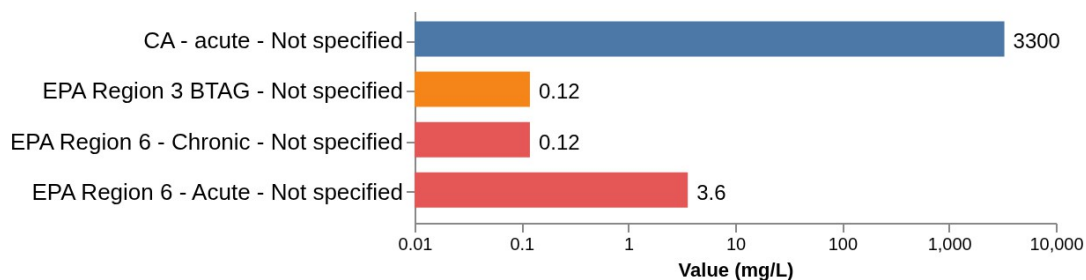
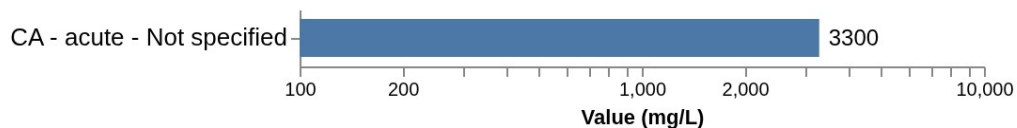
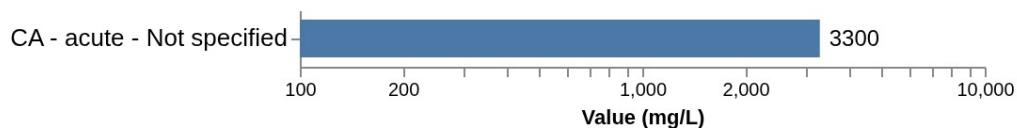


Table 264: Benchmark Values for Nitrosomethylethylamine, N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
10595-95-6	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosomethylethylamine, N- in Surface Water (Marine)**Table 265: Benchmark Values for Nitrosomethylvinylamine, N- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
4549-40-0	California	Saltwater acute	Not specified	3300.0

Benchmark Values for Nitrosomethylvinylamine, N- in Surface Water (Marine)**Table 266: Benchmark Values for Nitrosopyrrolidine, N- in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
930-55-2	California	Saltwater acute	Not specified	3300.0

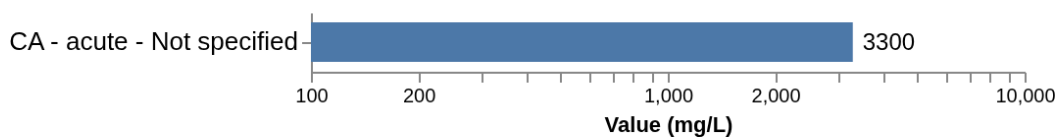
Benchmark Values for Nitrosopyrrolidine, N- in Surface Water (Marine)

Table 267: Benchmark Values for Nitrotoluene, m- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-08-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.075	82, 83
99-08-1	EPA Region 4	Chronic Marine	Not specified	1.384	
99-08-1	EPA Region 4	Acute Marine	Not specified	5.745	
99-08-1	EPA Region 6	Saltwater Chronic	Not specified	1.380	
99-08-1	EPA Region 6	Saltwater Acute	Not specified	5.750	

Benchmark Values for Nitrotoluene, m- in Surface Water (Marine)

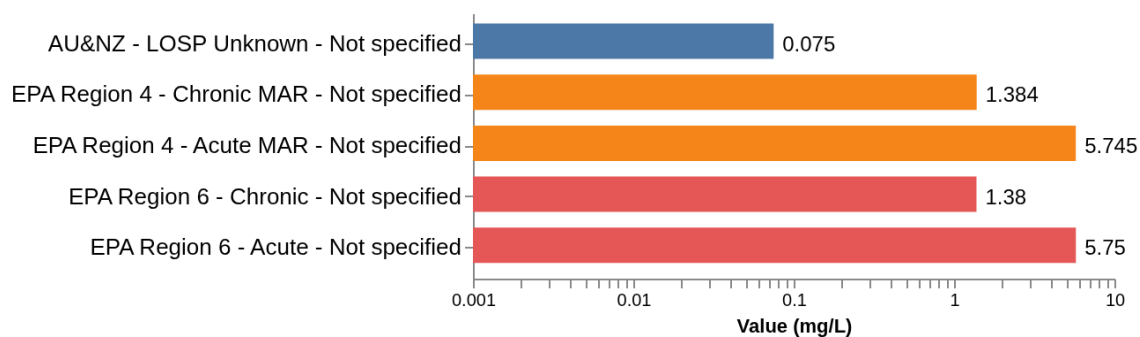


Table 268: Benchmark Values for Nitrotoluene, o- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-72-2	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.110	82, 83
88-72-2	EPA Region 4	Chronic Marine	Not specified	1.185	
88-72-2	EPA Region 4	Acute Marine	Not specified	4.919	
88-72-2	EPA Region 6	Saltwater Chronic	Not specified	1.190	
88-72-2	EPA Region 6	Saltwater Acute	Not specified	4.920	

Benchmark Values for Nitrotoluene, o- in Surface Water (Marine)

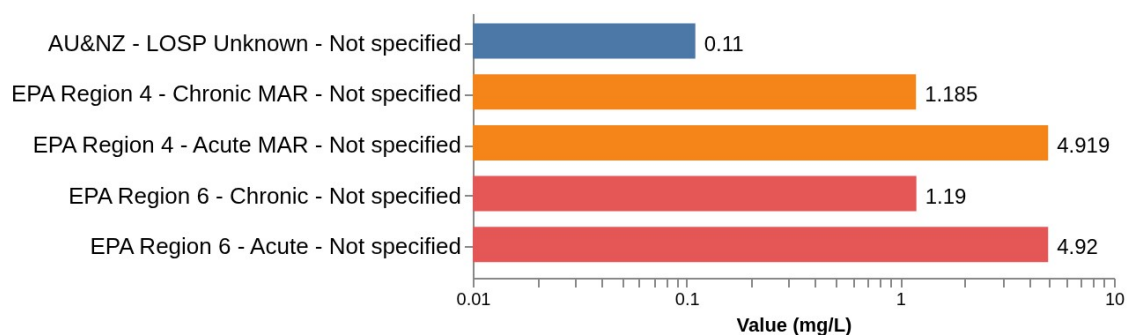


Table 269: Benchmark Values for Nitrotoluene, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-99-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.120	82, 83
99-99-0	EPA Region 4	Chronic Marine	Not specified	1.438	
99-99-0	EPA Region 4	Acute Marine	Not specified	5.969	
99-99-0	EPA Region 6	Saltwater Chronic	Not specified	1.438	
99-99-0	EPA Region 6	Saltwater Acute	Not specified	5.969	

Benchmark Values for Nitrotoluene, p- in Surface Water (Marine)

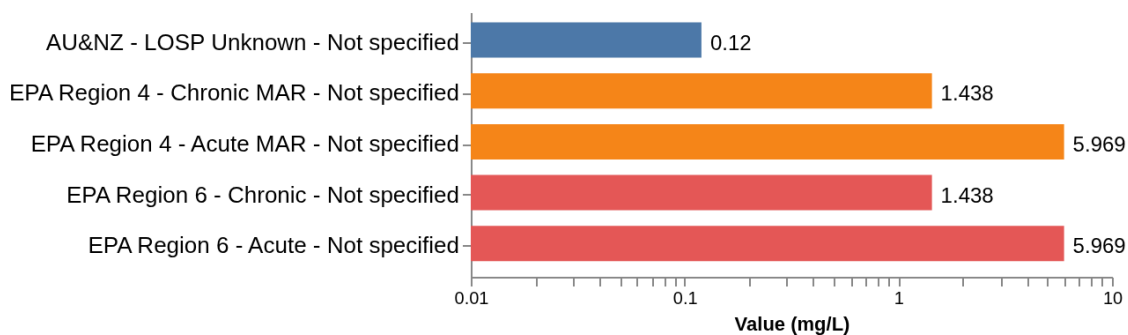


Table 270: Benchmark Values for Nonylphenol (branched) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
84852-15-3	Canada	Marine Long Term	Not specified	0.0007
84852-15-3	EPA Region 4	Chronic Marine	Not specified	0.0007
84852-15-3	EPA Region 4	Acute Marine	Not specified	0.0060

Benchmark Values for Nonylphenol (branched) in Surface Water (Marine)

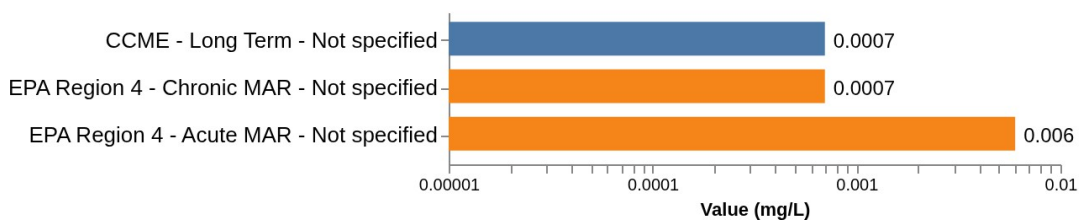


Table 271: Benchmark Values for Nonylphenol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
25154-52-3	California	Saltwater CCC, 4-day average	Not specified	0.0017
25154-52-3	California	Saltwater CMC, 1-hour average	Not specified	0.0070
25154-52-3	Delaware	Marine Chronic Criterion	Not specified	0.0017
25154-52-3	Delaware	Marine Acute Criterion	Not specified	0.0070
25154-52-3	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0017
25154-52-3	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0070
25154-52-3	EPA Region 6	Saltwater Chronic	Not specified	0.0017
25154-52-3	EPA Region 6	Saltwater Acute	Not specified	0.0070
25154-52-3	Florida	Marine water Contaminant Cleanup	Not specified	0.0014
25154-52-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0017

Benchmark Values for Nonylphenol in Surface Water (Marine)

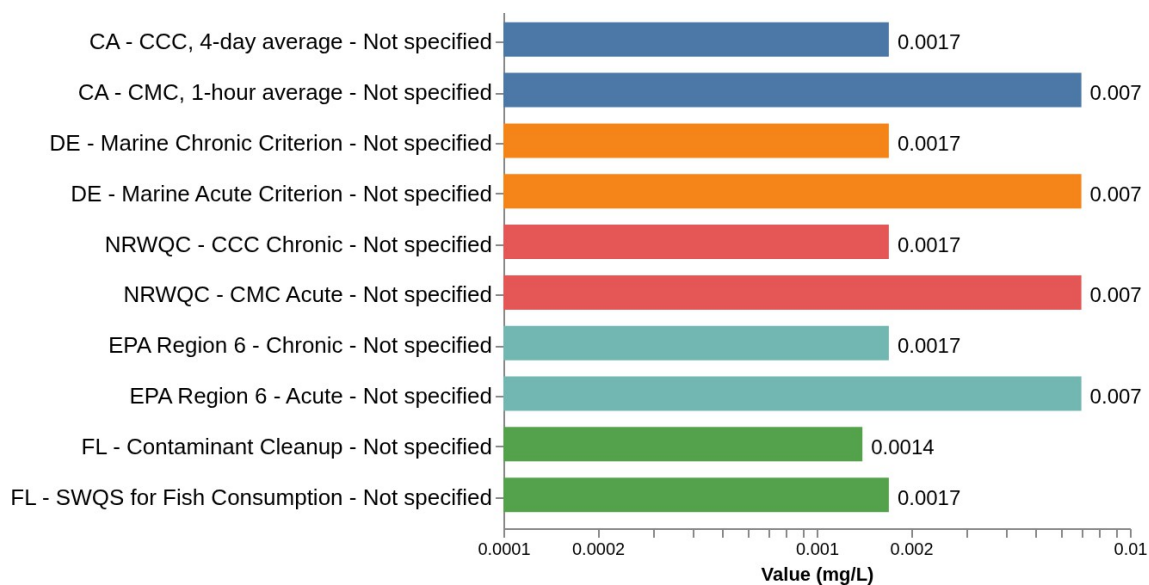


Table 272: Benchmark Values for Octabromodiphenyl Ether in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
32536-52-0	ECC Canada	Marine LTC	Not specified	0.000017

Benchmark Values for Octabromodiphenyl Ether in Surface Water (Marine)

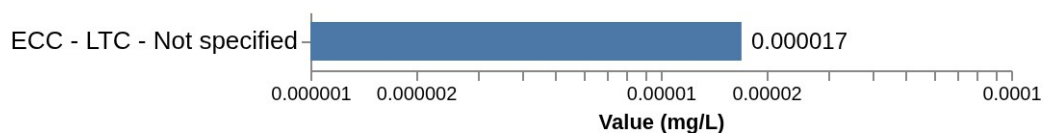


Table 273: Benchmark Values for Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
2691-41-0	EPA Region 4	Chronic Marine	Not specified	0.330
2691-41-0	EPA Region 4	Acute Marine	Not specified	1.875

Benchmark Values for Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Surface Water (Marine)

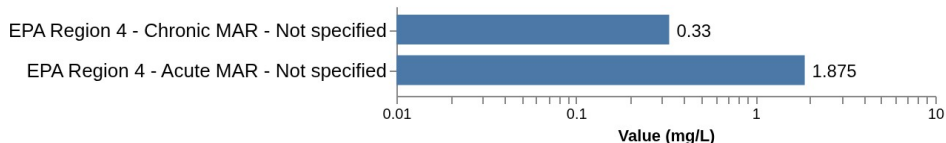


Table 274: Benchmark Values for Octanone, 2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
111-13-7	EPA Region 4	Chronic Marine	Not specified	2.807
111-13-7	EPA Region 4	Acute Marine	Not specified	10.740

Benchmark Values for Octanone, 2- in Surface Water (Marine)

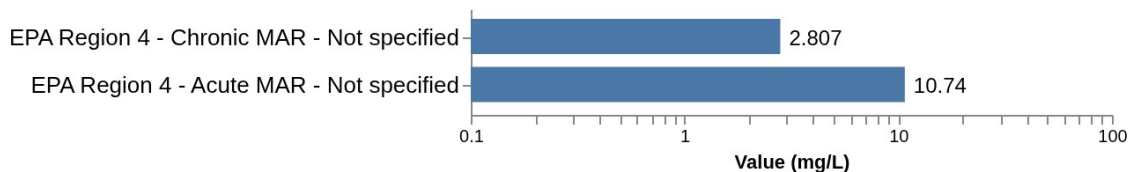


Table 275: Benchmark Values for Octyl Phthalate, di-N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
117-84-0	California	Saltwater other toxicity	Not specified	0.0034
117-84-0	California	Saltwater acute	Not specified	2.9440
117-84-0	EPA Region 4	Chronic Marine	Not specified	0.2150
117-84-0	EPA Region 4	Acute Marine	Not specified	0.8930
117-84-0	EPA Region 6	Saltwater Chronic	Not specified	0.0020
117-84-0	EPA Region 6	Saltwater Acute	Not specified	0.0200

Benchmark Values for Octyl Phthalate, di-N- in Surface Water (Marine)

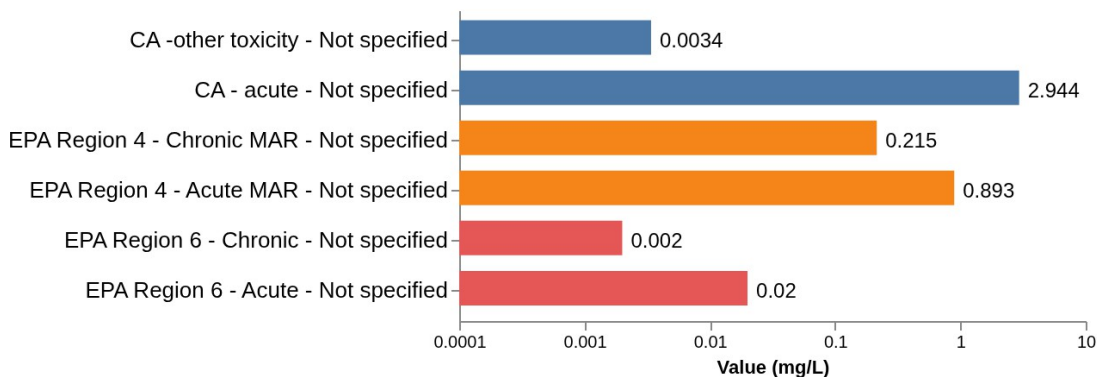


Table 276: Benchmark Values for Paraquat in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
4685-14-7	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0005	82, 83

Benchmark Values for Paraquat in Surface Water (Marine)

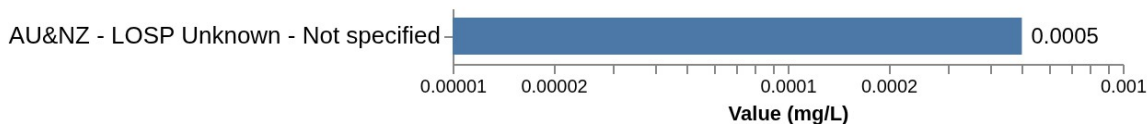


Table 277: Benchmark Values for Parathion in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-38-2	Australia and New Zealand	Marine LOSP 99	Not specified	7.000000e-07	82, 88
56-38-2	Australia and New Zealand	Marine LOSP 95	Not specified	4.000000e-06	82, 83
56-38-2	Australia and New Zealand	Marine LOSP 90	Not specified	1.000000e-05	82, 83
56-38-2	Australia and New Zealand	Marine LOSP 80	Not specified	4.000000e-05	82, 83
56-38-2	EPA Region 3	BTAG – Marine	Not specified	1.780000e-04	
56-38-2	EPA Region 4	Chronic Marine	Not specified	4.000000e-05	
56-38-2	EPA Region 4	Acute Marine	Not specified	6.000000e-05	
56-38-2	EPA Region 6	Saltwater Chronic	Not specified	1.780000e-03	
56-38-2	EPA Region 6	Saltwater Acute	Not specified	5.300000e-03	
56-38-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	4.000000e-05	

Benchmark Values for Parathion in Surface Water (Marine)

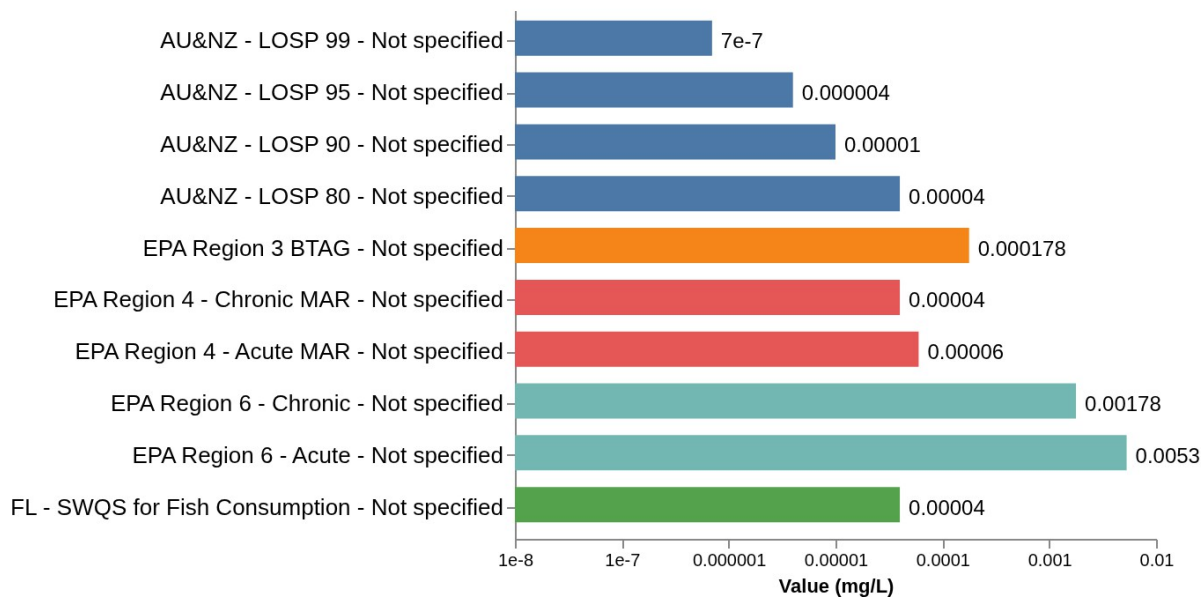
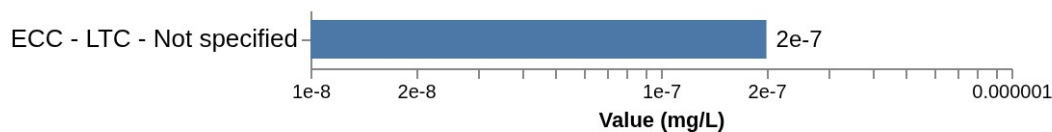
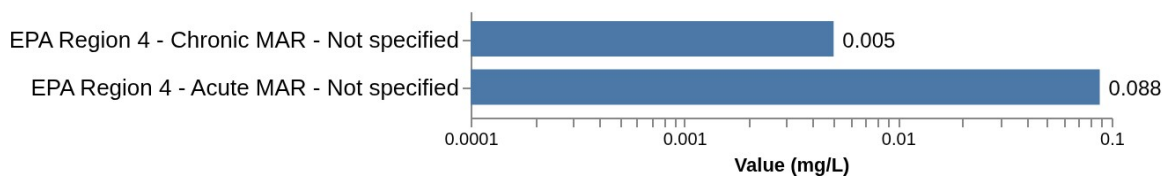


Table 278: Benchmark Values for Pentabromodiphenyl Ether in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
32534-81-9	ECC Canada	Marine LTC	Not specified	2.000000e-07

Benchmark Values for Pentabromodiphenyl Ether in Surface Water (Marine)**Table 279: Benchmark Values for Pentachloroaniline in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
527-20-8	EPA Region 4	Chronic Marine	Not specified	0.005
527-20-8	EPA Region 4	Acute Marine	Not specified	0.088

Benchmark Values for Pentachloroaniline in Surface Water (Marine)**Table 280: Benchmark Values for Pentachlorobenzene in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
608-93-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.0015	83, 89, 97
608-93-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.0020	83, 97
608-93-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.0025	83, 97
608-93-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.0050	83, 97
608-93-5	California	Saltwater chronic	Not specified	0.1290	
608-93-5	California	Saltwater acute	Not specified	0.1600	
608-93-5	EPA Region 3	BTAG – Marine	Not specified	0.1290	
608-93-5	EPA Region 4	Chronic Marine	Aquatic only	0.0010	7
608-93-5	EPA Region 4	Acute Marine	Aquatic only	0.0110	7
608-93-5	EPA Region 6	Saltwater Chronic	Not specified	0.0046	
608-93-5	EPA Region 6	Saltwater Acute	Not specified	0.1400	

Benchmark Values for Pentachlorobenzene in Surface Water (Marine)

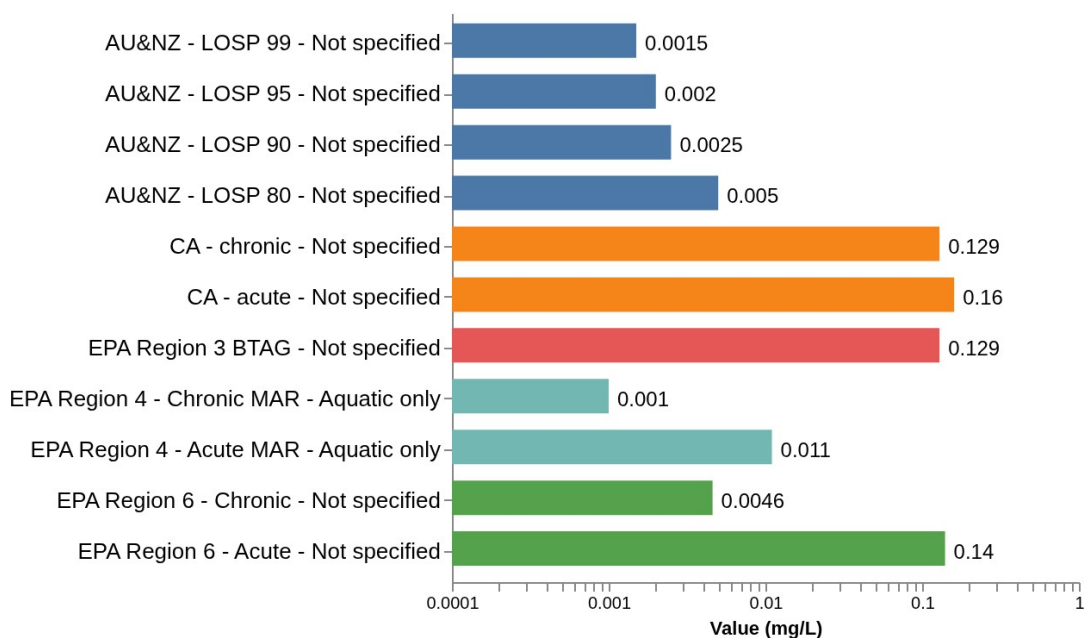


Table 281: Benchmark Values for Pentachloroethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76-01-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.030	83
76-01-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.080	83, 89
76-01-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.120	83
76-01-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.200	83
76-01-7	California	Saltwater chronic	Not specified	0.281	
76-01-7	California	Saltwater acute	Not specified	0.390	

Benchmark Values for Pentachloroethane in Surface Water (Marine)

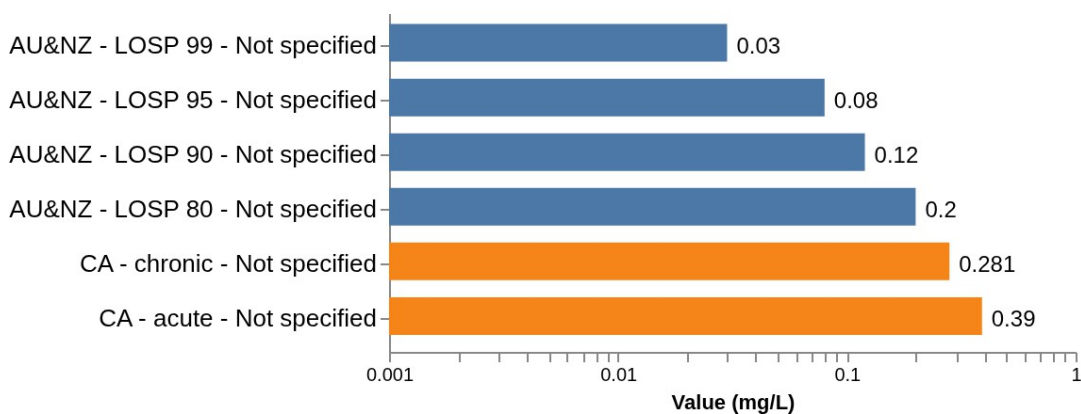


Table 282: Benchmark Values for Pentachlorophenol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-86-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.0110	88, 89, 97
87-86-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.0220	88, 97
87-86-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.0330	88, 97
87-86-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.0550	88, 92, 97
87-86-5	California	Marine 6-month median	Not specified	0.0010	219
87-86-5	California	Marine daily max	Not specified	0.0040	219
87-86-5	California	Saltwater CCC, 4-day average	Not specified	0.0079	
87-86-5	California	Marine instantaneous max	Not specified	0.0100	219
87-86-5	California	Saltwater CMC, 1-hour average	Not specified	0.0130	
87-86-5	California	Saltwater CMC, 1-hour average	Not specified	0.0130	
87-86-5	Delaware	Marine Chronic Criterion	Not specified	0.0079	
87-86-5	Delaware	Marine Acute Criterion	Not specified	0.0130	
87-86-5	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0079	
87-86-5	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0130	
87-86-5	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0079	
87-86-5	EPA Region 3	BTAG – Marine	Not specified	0.0079	
87-86-5	EPA Region 4	Chronic Marine	Aquatic only	0.0079	3, 7
87-86-5	EPA Region 4	Acute Marine	Aquatic only	0.0130	3, 7
87-86-5	EPA Region 6	Saltwater Chronic	Not specified	0.0096	
87-86-5	EPA Region 6	Saltwater Acute	Not specified	0.0151	
87-86-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0079	
87-86-5	New Jersey	Marine Chronic	Not specified	0.0079	
87-86-5	New Jersey	Marine Acute	Not specified	0.0130	

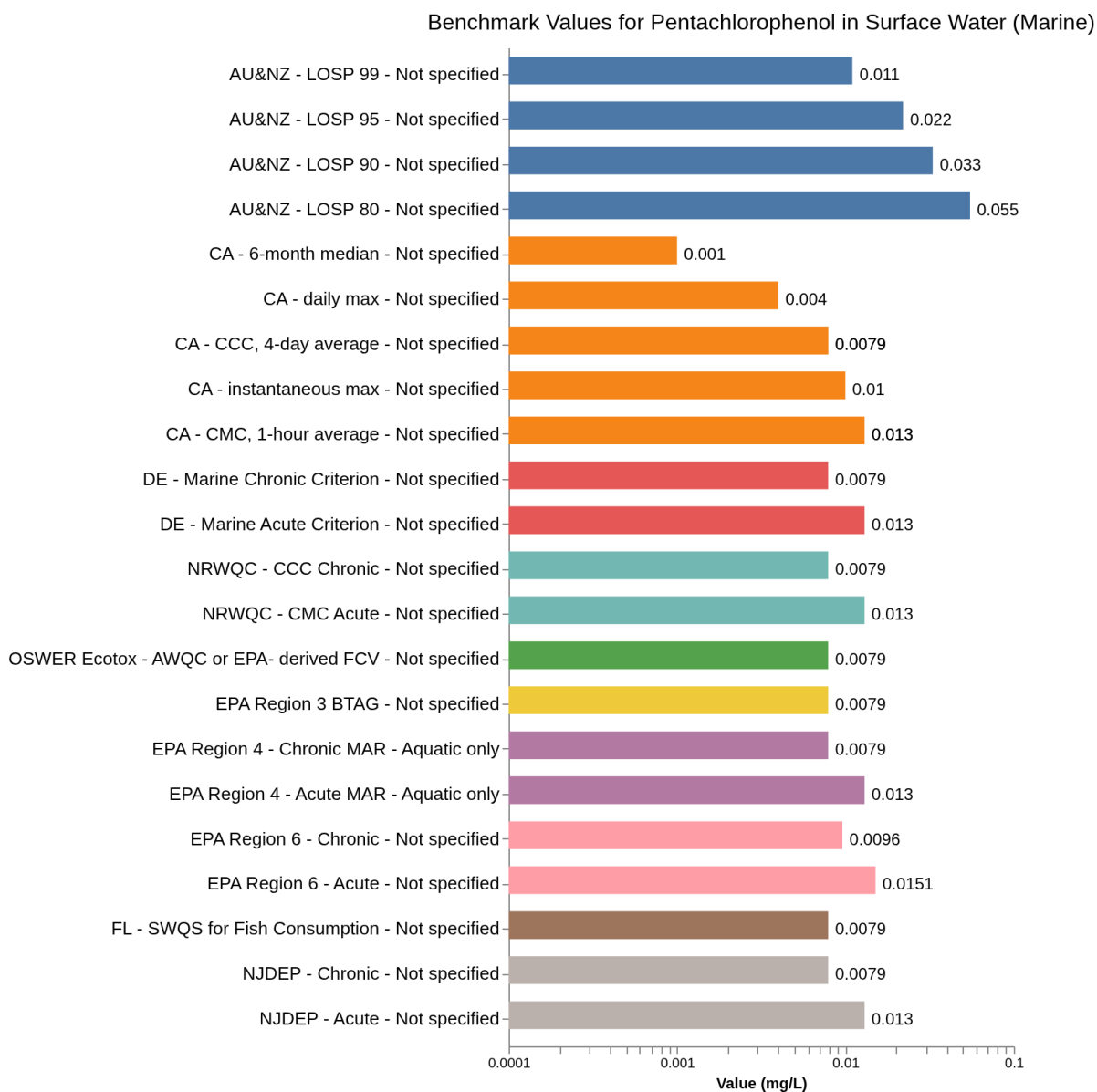


Table 283: Benchmark Values for Pentaerythritol tetranitrate (PETN) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-11-5	EPA Region 6	Saltwater Chronic	Not specified	3.2
78-11-5	EPA Region 6	Saltwater Acute	Not specified	9.6

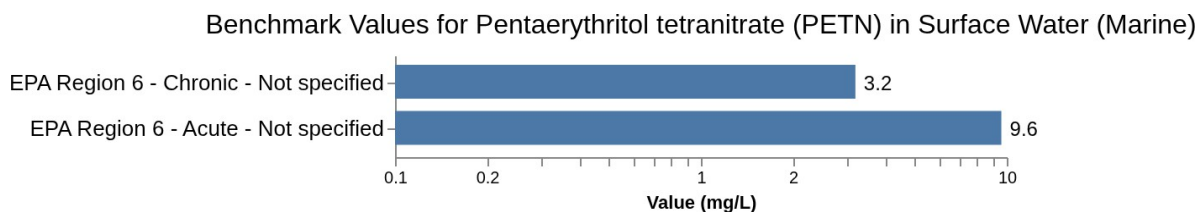


Table 284: Benchmark Values for Pentyl Alcohol, N- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
71-41-0	EPA Region 4	Chronic Marine	Not specified	12.637
71-41-0	EPA Region 4	Acute Marine	Not specified	44.404

Benchmark Values for Pentyl Alcohol, N- in Surface Water (Marine)

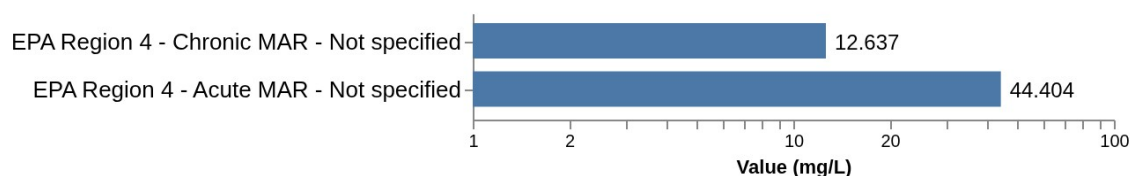


Table 285: Benchmark Values for Perfluorooctanesulfonate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
45298-90-6	EPA NRWQC	Saltwater CMC Acute	Not specified	0.55	112

Benchmark Values for Perfluorooctanesulfonate in Surface Water (Marine)

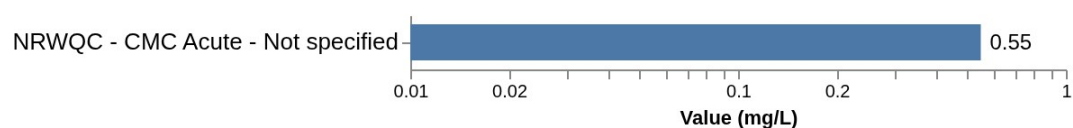


Table 286: Benchmark Values for Perfluorooctanesulfonic acid (PFOS) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1763-23-1	EPA NRWQC	Saltwater CMC Acute	Not specified	0.55000	112
1763-23-1	EPA Region 6	Saltwater Chronic	Not specified	0.00029	

Benchmark Values for Perfluorooctanesulfonic acid (PFOS) in Surface Water (Marine)

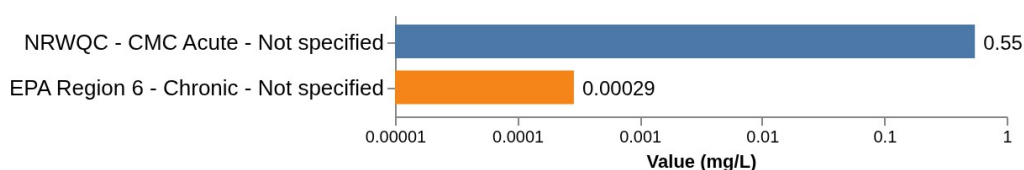


Table 287: Benchmark Values for Perfluorooctanoate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
45285-51-6	EPA NRWQC	Saltwater CMC Acute	Not specified	7.0	112

Benchmark Values for Perfluorooctanoate in Surface Water (Marine)

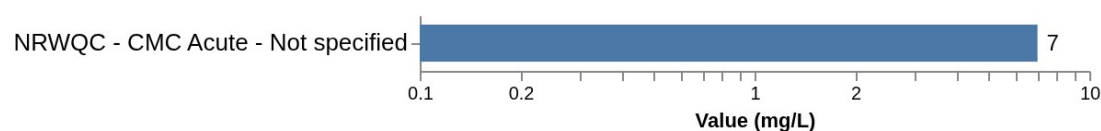


Table 288: Benchmark Values for Perfluorooctanoic acid (PFOA) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
335-67-1	EPA NRWQC	Saltwater CMC Acute	Not specified	7.0	112

Benchmark Values for Perfluorooctanoic acid (PFOA) in Surface Water (Marine)

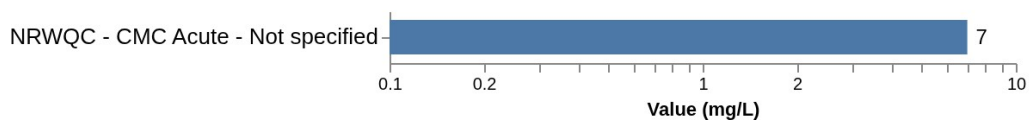


Table 289: Benchmark Values for Permethrin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
52645-53-1	California	Saltwater CMC, 1-hour average	Not specified	0.000001
52645-53-1	Canada	Marine Long Term	Not specified	0.000001

Benchmark Values for Permethrin in Surface Water (Marine)

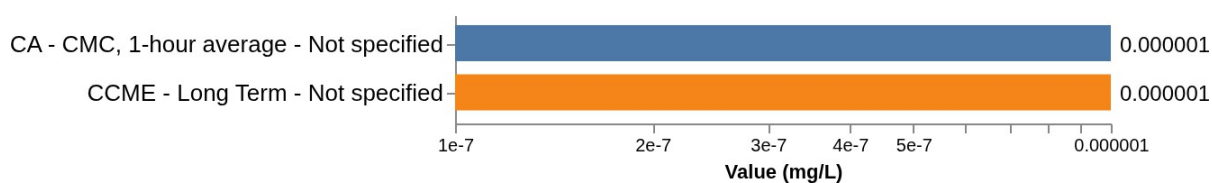


Table 290: Benchmark Values for Phenanthrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
85-01-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.0006	83, 89, 97
85-01-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.0020	83, 97
85-01-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.0040	83, 97
85-01-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.0080	83, 97
85-01-8	California	Saltwater acute	Not specified	0.3000	
85-01-8	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0083	
85-01-8	EPA Region 3	BTAG – Marine	Not specified	0.0015	
85-01-8	EPA Region 4	Chronic Marine	Not specified	0.0046	7
85-01-8	EPA Region 4	Acute Marine	Not specified	0.0077	7
85-01-8	EPA Region 6	Saltwater Chronic	Not specified	0.0046	
85-01-8	EPA Region 6	Saltwater Acute	Not specified	0.0077	

Benchmark Values for Phenanthrene in Surface Water (Marine)

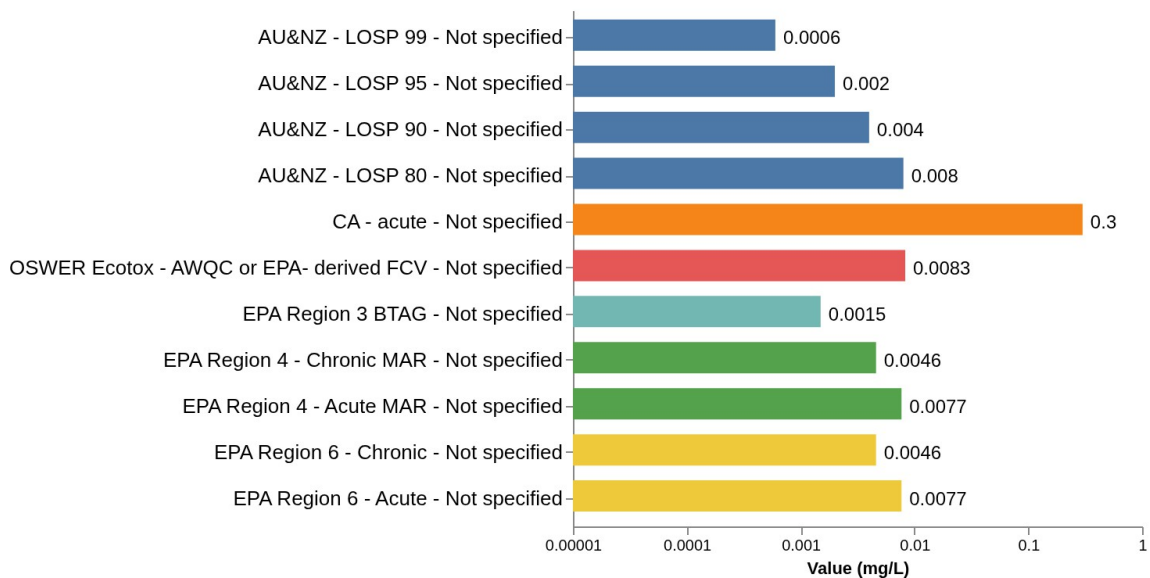


Table 291: Benchmark Values for Phenol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-95-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.270	88
108-95-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.400	88, 89
108-95-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.520	88
108-95-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.720	88
108-95-2	California	Marine 6-month median	Not specified	0.030	218
108-95-2	California	Marine daily max	Not specified	0.120	218
108-95-2	California	Marine instantaneous max	Not specified	0.300	218
108-95-2	California	Saltwater acute	Not specified	5.800	
108-95-2	EPA Region 3	BTAG – Marine	Not specified	0.058	
108-95-2	EPA Region 4	Chronic Marine	Not specified	0.058	
108-95-2	EPA Region 4	Acute Marine	Not specified	0.300	
108-95-2	EPA Region 6	Saltwater Chronic	Not specified	2.750	
108-95-2	EPA Region 6	Saltwater Acute	Not specified	16.500	
108-95-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.300	

Benchmark Values for Phenol in Surface Water (Marine)

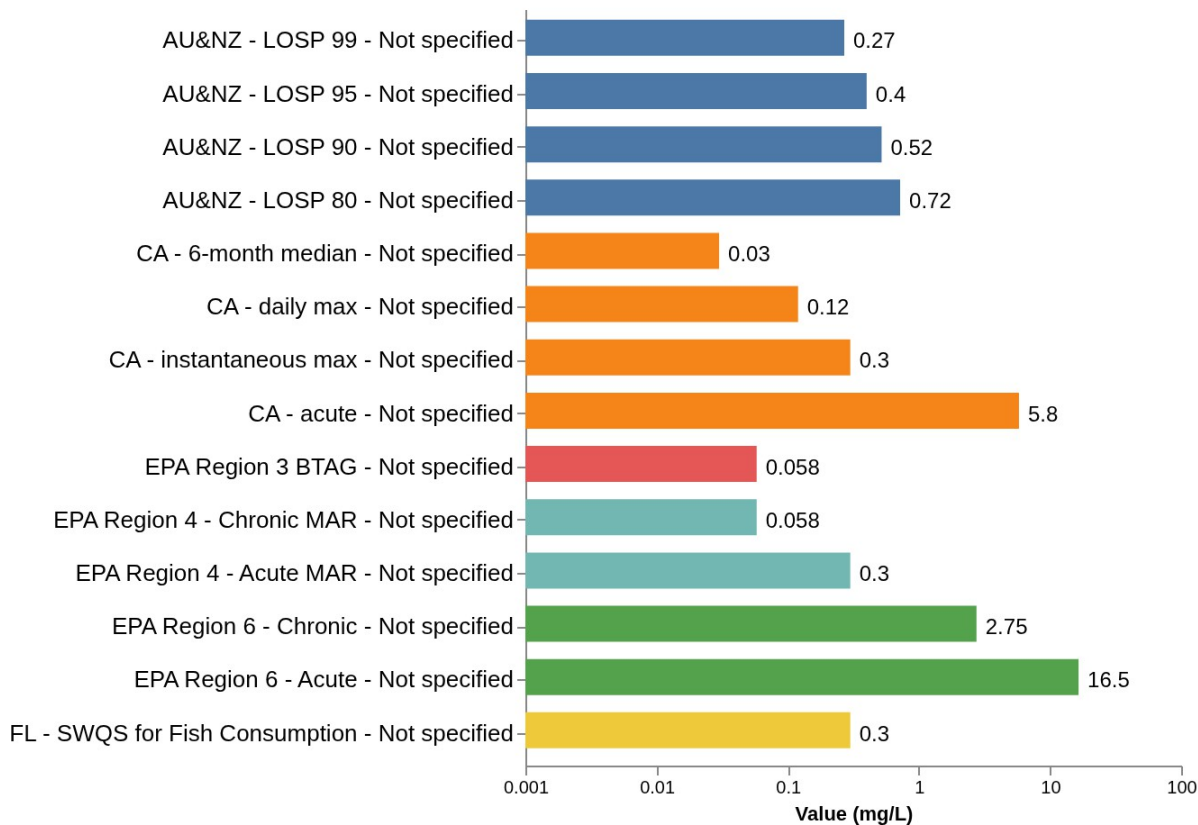


Table 292: Benchmark Values for Phenols, non-chlorinated in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-9	California	Marine 6-month median	Not specified	0.03
000000-47-9	California	Marine daily max	Not specified	0.12
000000-47-9	California	Marine instantaneous max	Not specified	0.30

Benchmark Values for Phenols, non-chlorinated in Surface Water (Marine)

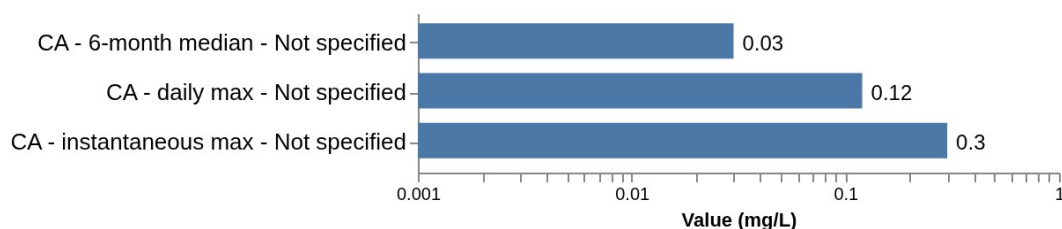


Table 293: Benchmark Values for Phosphorus (total) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-06-3	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0001

Benchmark Values for Phosphorus (total) in Surface Water (Marine)



Table 294: Benchmark Values for Phosphorus in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7723-14-0	Canada	Marine Long Term	Not specified		65
7723-14-0	EPA Region 3	BTAG - Marine	Not specified	0.0001	
7723-14-0	EPA Region 4	Chronic Marine	Not specified	0.1	
7723-14-0	New Jersey	Marine Chronic	Not specified	0.0001	

Benchmark Values for Phosphorus in Surface Water (Marine)

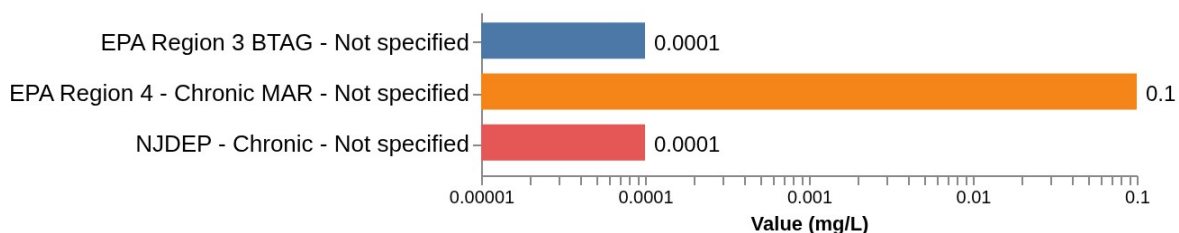


Table 295: Benchmark Values for Phthalate esters in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-48-0	California	Saltwater other toxicity	Not specified	0.0034
000000-48-0	California	Saltwater acute	Not specified	2.9440

Benchmark Values for Phthalate esters in Surface Water (Marine)

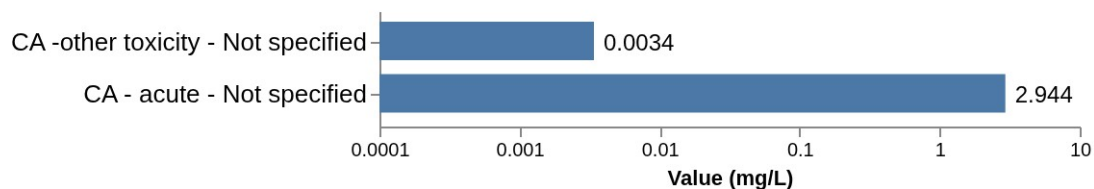


Table 296: Benchmark Values for Picric Acid (2,4,6-Trinitrophenol) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-89-1	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.25	82, 83
88-89-1	California	Marine 6-month median	Not specified	0.03	218
88-89-1	California	Marine daily max	Not specified	0.12	218
88-89-1	California	Marine instantaneous max	Not specified	0.30	218
88-89-1	California	Saltwater acute	Not specified	4.85	

Benchmark Values for Picric Acid (2,4,6-Trinitrophenol) in Surface Water (Marine)

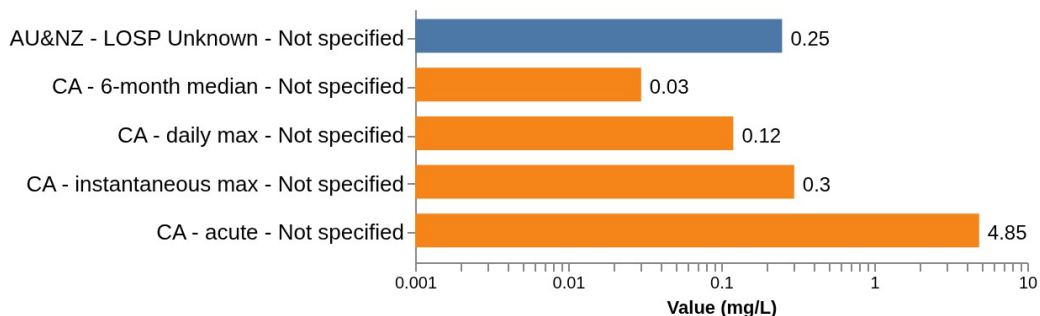
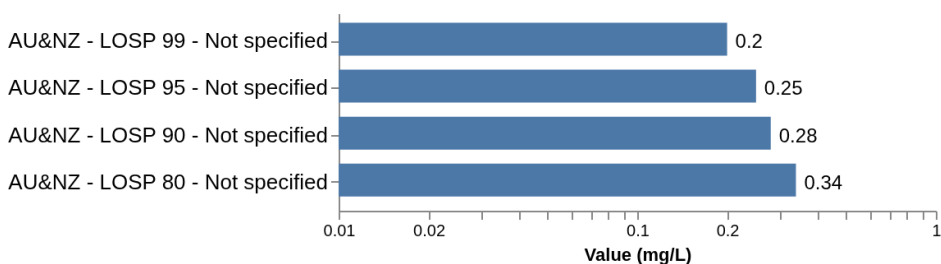
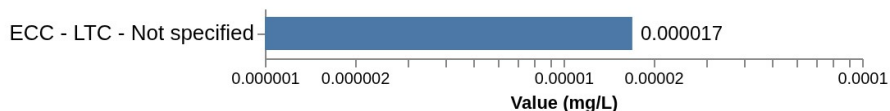


Table 297: Benchmark Values for Poly(acrylonitrile-co-butadiene-co-styrene) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
9003-56-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.20	87
9003-56-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.25	87, 89
9003-56-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.28	87
9003-56-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.34	87

Benchmark Values for Poly(acrylonitrile-co-butadiene-co-styrene) in Surface Water (Marine)**Table 298: Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (heptaBDE) in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
68928-80-3	ECC Canada	Marine LTC	Not specified	0.000017

Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (heptaBDE) in Surface Water (Marine)**Table 299: Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (hexaBDE) in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
36483-60-0	ECC Canada	Marine LTC	Not specified	0.00012

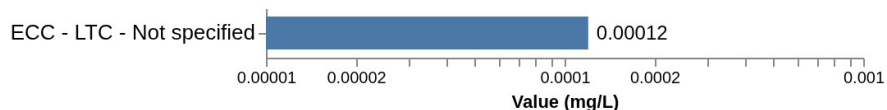
Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (hexaBDE) in Surface Water (Marine)

Table 300: Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (tetraBDE) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
40088-47-9	ECC Canada	Marine LTC	Not specified	0.000024

Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (tetraBDE) in Surface Water (Marine)

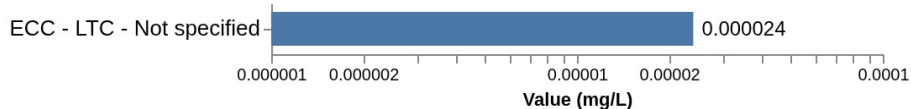


Table 301: Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1336-36-3	California	Saltwater CCC, 4-day average	Not specified	0.00003	
1336-36-3	California	Saltwater acute	Not specified	0.01000	
1336-36-3	EPA Region 4	Chronic Marine	Wildlife only	0.00003	7
1336-36-3	EPA Region 4	Chronic Marine	Aquatic only	0.00003	7
1336-36-3	EPA Region 4	Acute Marine	Aquatic only	0.00003	7
1336-36-3	EPA Region 6	Saltwater Chronic	Not specified	0.00003	
1336-36-3	EPA Region 6	Saltwater Acute	Not specified	0.01000	
1336-36-3	New Jersey	Marine Chronic	Not specified	0.00003	

Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water (Marine)

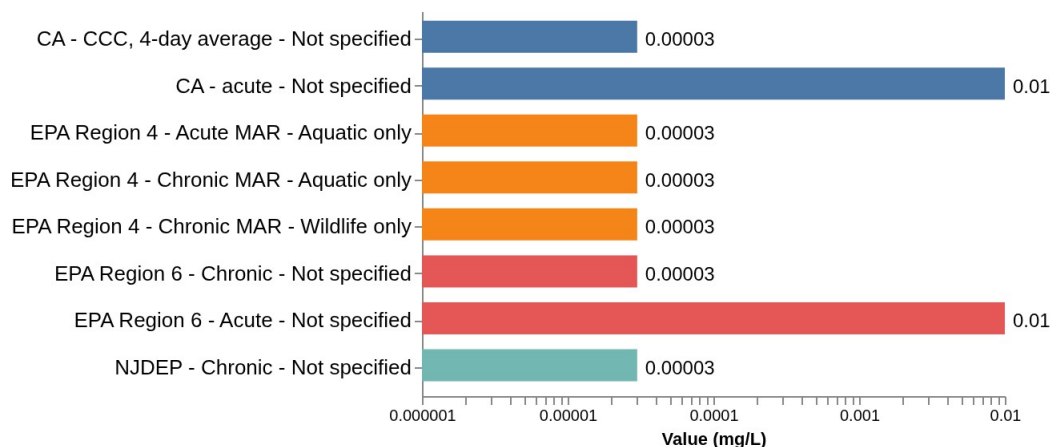


Table 302: Benchmark Values for Polychlorinated Biphenyls (PCBs) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-17-0	Delaware	Marine Chronic Criterion	Not specified	3.000000e-05
000000-17-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	4.500000e-08

Benchmark Values for Polychlorinated Biphenyls (PCBs) in Surface Water (Marine)

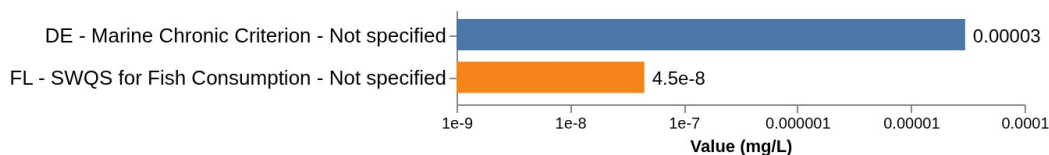


Table 303: Benchmark Values for Polycyclic aromatic hydrocarbons (PAH), Total in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-04-1	California	Saltwater acute	Not specified	0.300000
000000-04-1	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.000031

Benchmark Values for Polycyclic aromatic hydrocarbons (PAH), Total in Surface Water (Marine)

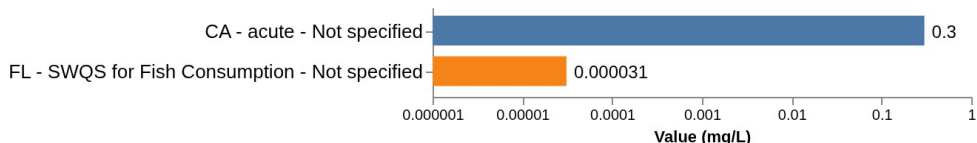


Table 304: Benchmark Values for Potassium perfluorooctanesulfonate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2795-39-3	EPA NRWQC	Saltwater CMC Acute	Not specified	0.55	112

Benchmark Values for Potassium perfluorooctanesulfonate in Surface Water (Marine)

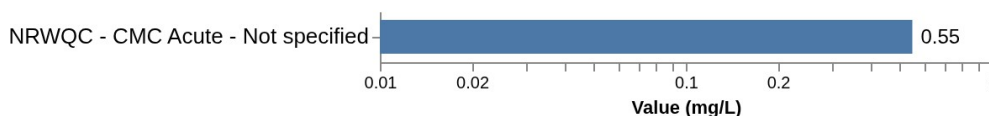


Table 305: Benchmark Values for Profenofos in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
41198-08-7	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.00002	82, 83, 101

Benchmark Values for Profenofos in Surface Water (Marine)

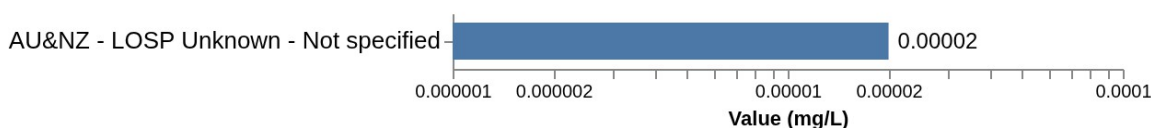


Table 306: Benchmark Values for Propylene Glycol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
57-55-6	EPA Region 4	Chronic Marine	Not specified	329.329
57-55-6	EPA Region 4	Acute Marine	Not specified	1114.122

Benchmark Values for Propylene Glycol in Surface Water (Marine)

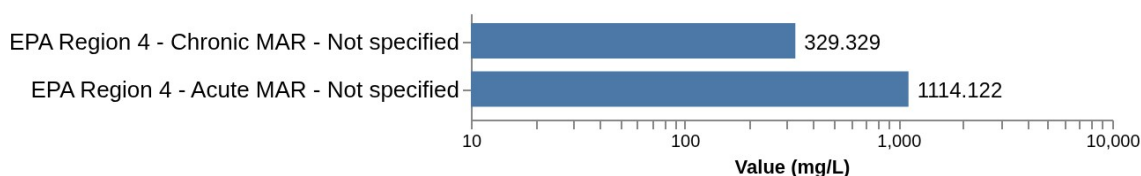


Table 307: Benchmark Values for Pyrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
129-00-0	California	Saltwater acute	Not specified	0.300000
129-00-0	EPA Region 3	BTAG – Marine	Not specified	0.000240
129-00-0	EPA Region 4	Chronic Marine	Not specified	0.000110
129-00-0	EPA Region 4	Acute Marine	Not specified	0.000450
129-00-0	EPA Region 6	Saltwater Chronic	Not specified	0.000012
129-00-0	EPA Region 6	Saltwater Acute	Not specified	0.000367
129-00-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	11.000000

Benchmark Values for Pyrene in Surface Water (Marine)

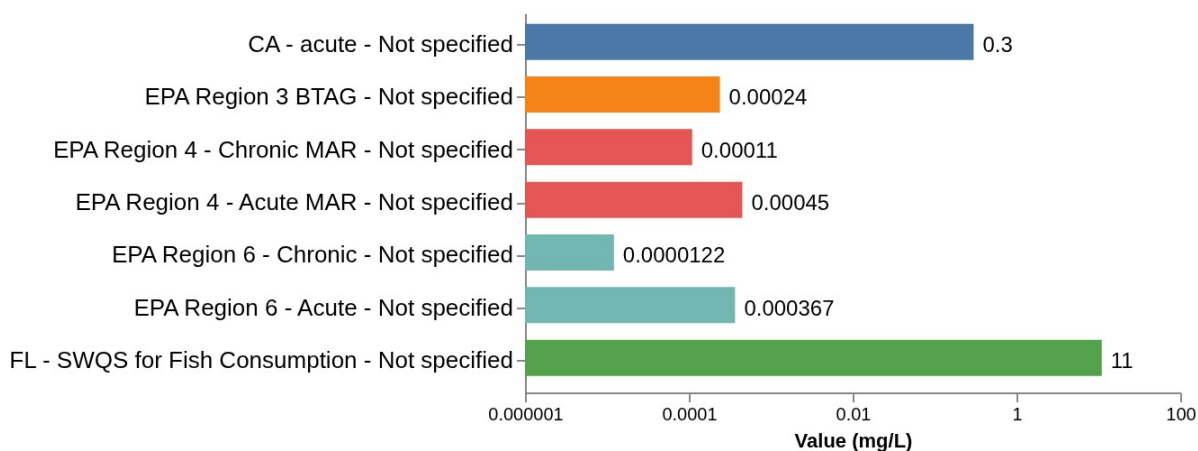


Table 308: Benchmark Values for Quinoline in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-22-5	EPA Region 4	Chronic Marine	Not specified	1.634
91-22-5	EPA Region 4	Acute Marine	Not specified	5.682

Benchmark Values for Quinoline in Surface Water (Marine)

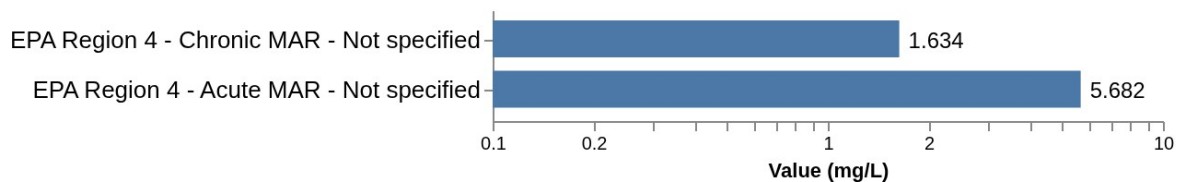
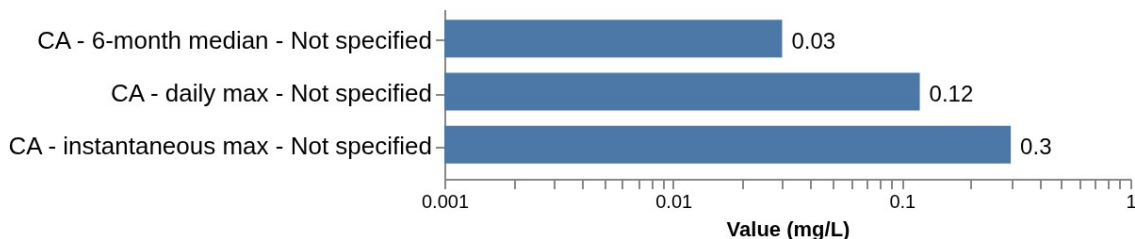


Table 309: Benchmark Values for Resorcinol in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-46-3	California	Marine 6-month median	Not specified	0.03	218
108-46-3	California	Marine daily max	Not specified	0.12	218
108-46-3	California	Marine instantaneous max	Not specified	0.30	218

Benchmark Values for Resorcinol in Surface Water (Marine)**Table 310: Benchmark Values for Selenium in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7782-49-2	California	Marine 6-month median	Not specified	0.015	
7782-49-2	California	Marine daily max	Not specified	0.060	
7782-49-2	California	Saltwater CCC, 4-day average	Not specified	0.071	214
7782-49-2	California	Saltwater 24-hour average	Not specified	0.127	
7782-49-2	California	Marine instantaneous max	Not specified	0.150	
7782-49-2	California	Saltwater CMC, 1-hour average	Not specified	0.290	214, 216
7782-49-2	California	Saltwater CMC, 1-hour average	Not specified	0.290	214
7782-49-2	Delaware	Marine Chronic Criterion	Not specified	0.071	
7782-49-2	Delaware	Marine Acute Criterion	Not specified	0.290	
7782-49-2	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.071	
7782-49-2	EPA NRWQC	Saltwater CMC Acute	Not specified	0.290	
7782-49-2	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.071	
7782-49-2	EPA Region 3	BTAG – Marine	Not specified	0.071	
7782-49-2	EPA Region 4	Chronic Marine	Aquatic only	0.071	1, 5, 7
7782-49-2	EPA Region 4	Acute Marine	Aquatic only	0.290	1, 5, 7
7782-49-2	EPA Region 6	Saltwater Chronic	Not specified	0.136	
7782-49-2	EPA Region 6	Saltwater Acute	Not specified	0.564	
7782-49-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.071	
7782-49-2	New Jersey	Marine Chronic	Not specified	0.071	199, 200
7782-49-2	New Jersey	Marine Acute	Not specified	0.290	199, 200

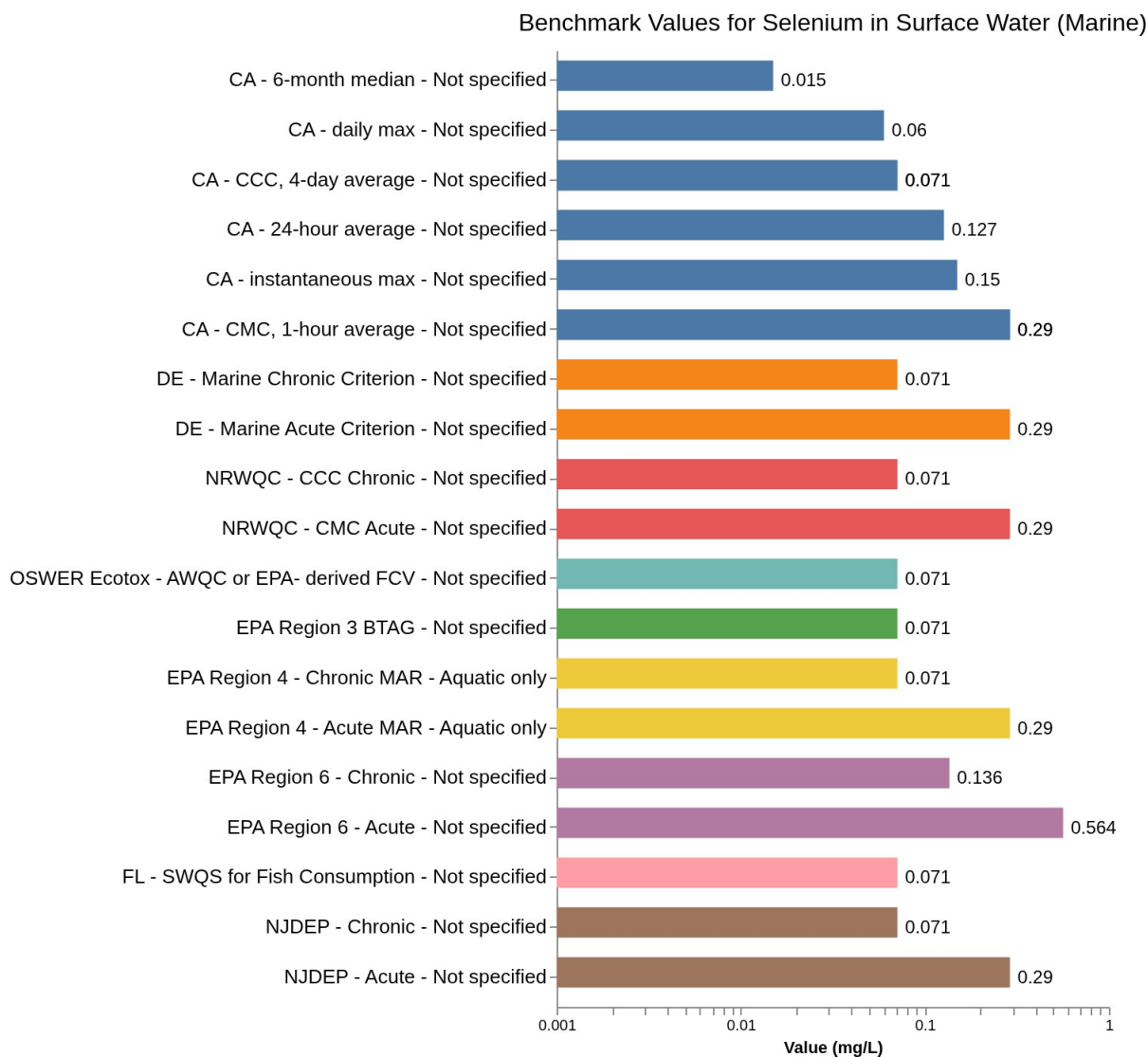


Table 311: Benchmark Values for Silver (as free ion) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
14701-21-4	EPA Region 6	Saltwater Chronic	Not specified	0.0002	21, 22
14701-21-4	EPA Region 6	Saltwater Acute	Not specified	0.0020	21, 22

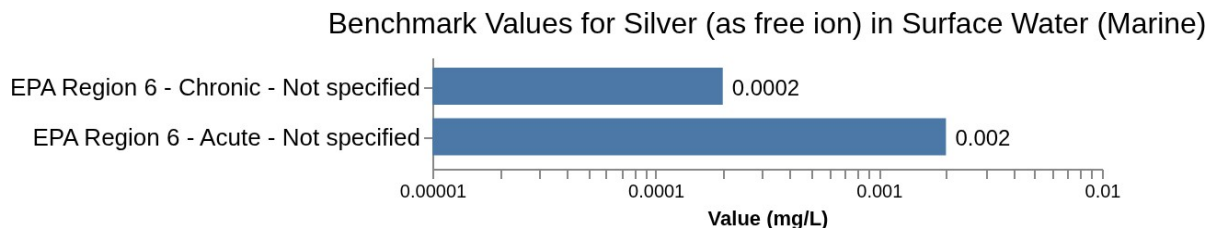


Table 312: Benchmark Values for Silver in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-22-4	Australia and New Zealand	Marine LOSP 99	Not specified	0.00080	88
7440-22-4	Australia and New Zealand	Marine LOSP 95	Not specified	0.00140	88, 89
7440-22-4	Australia and New Zealand	Marine LOSP 90	Not specified	0.00180	88
7440-22-4	Australia and New Zealand	Marine LOSP 80	Not specified	0.00260	88, 94
7440-22-4	British Columbia	Marine LTC	Not specified	0.00150	
7440-22-4	British Columbia	Marine STA	Not specified	0.00300	
7440-22-4	California	Marine 6-month median	Not specified	0.00070	218
7440-22-4	California	Saltwater instantaneous max	Not specified	0.00190	
7440-22-4	California	Saltwater CMC, 1-hour average	Not specified	0.00200	214, 216
7440-22-4	California	Marine daily max	Not specified	0.00280	218
7440-22-4	California	Marine instantaneous max	Not specified	0.00700	218
7440-22-4	Canada	Marine Short Term	Not specified	0.00750	
7440-22-4	Delaware	Marine Acute Criterion	Not specified	0.00190	236
7440-22-4	EPA NRWQC	Saltwater CMC Acute	Not specified	0.00190	
7440-22-4	EPA Region 3	BTAG – Marine	Not specified	0.00023	
7440-22-4	EPA Region 4	Chronic Marine	Not specified	0.00010	1, 2
7440-22-4	EPA Region 4	Acute Marine	Not specified	0.00190	1, 2
7440-22-4	EPA Region 6	Saltwater Chronic	Not specified	0.00019	21
7440-22-4	EPA Region 6	Saltwater Acute	Not specified	0.00190	21
7440-22-4	Florida	Marine water Contaminant Cleanup	Not specified	0.00040	209
7440-22-4	New Jersey	Marine Acute	Not specified	0.00190	199, 200

Benchmark Values for Silver in Surface Water (Marine)

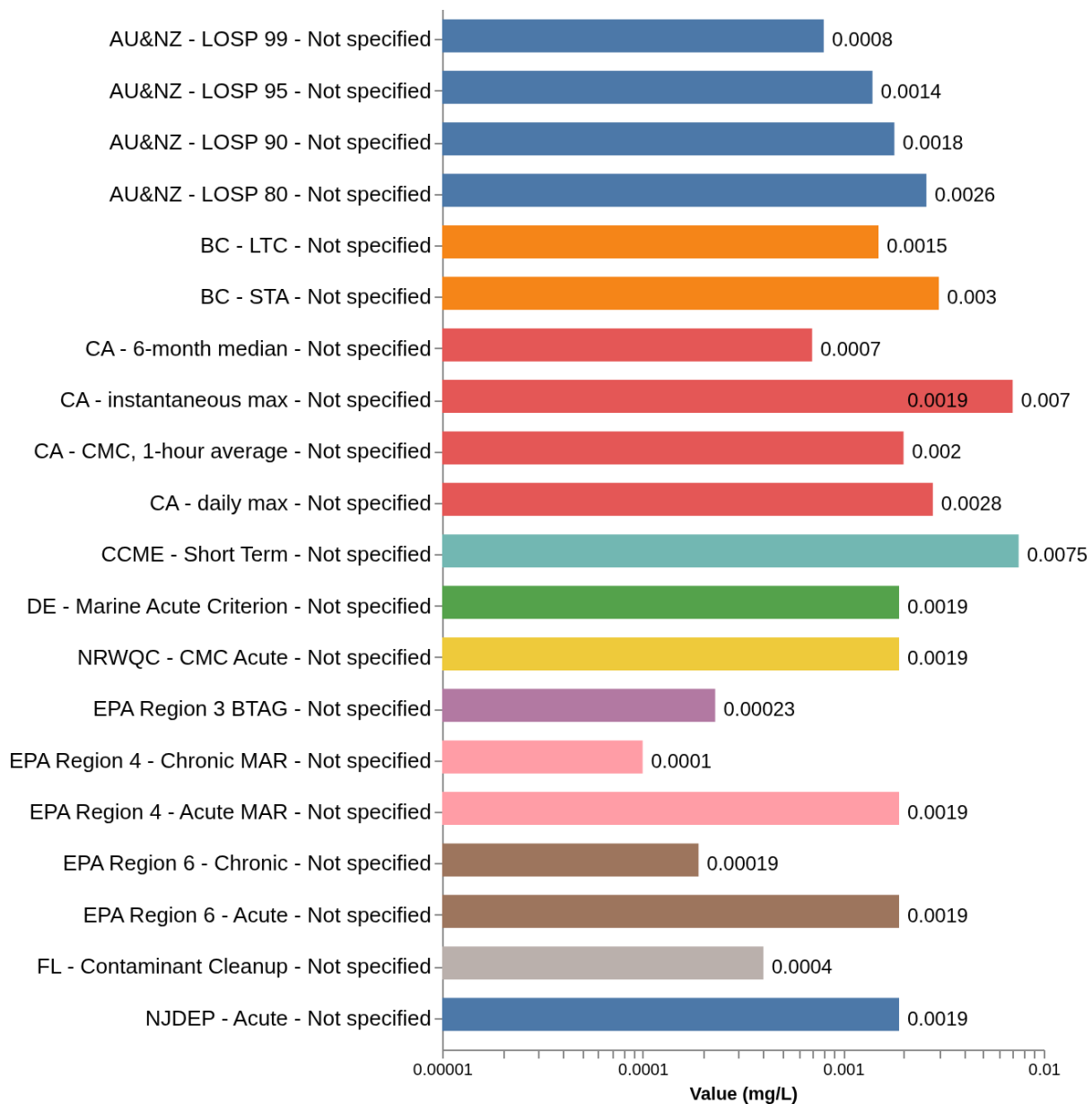


Table 313: Benchmark Values for Simazine in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122-34-9	Australia and New Zealand	Marine LOSP 99	Not specified	0.0002	82, 88
122-34-9	Australia and New Zealand	Marine LOSP 95	Not specified	0.0032	82, 83
122-34-9	Australia and New Zealand	Marine LOSP 90	Not specified	0.0110	82, 83
122-34-9	Australia and New Zealand	Marine LOSP 80	Not specified	0.0350	82, 83
122-34-9	EPA Region 4	Acute Marine	Not specified	0.0570	

Benchmark Values for Simazine in Surface Water (Marine)

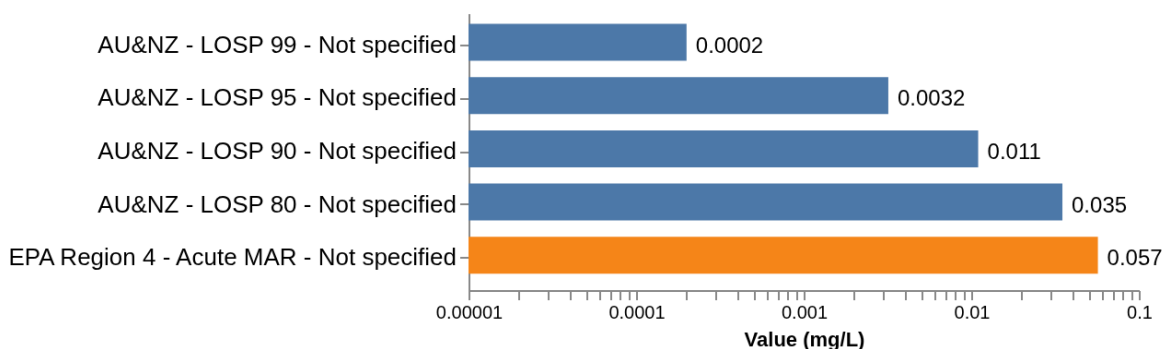


Table 314: Benchmark Values for Sodium perfluorooctanesulfonate in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
4021-47-0	EPA NRWQC	Saltwater CMC Acute	Not specified	0.55	112

Benchmark Values for Sodium perfluorooctanesulfonate in Surface Water (Marine)

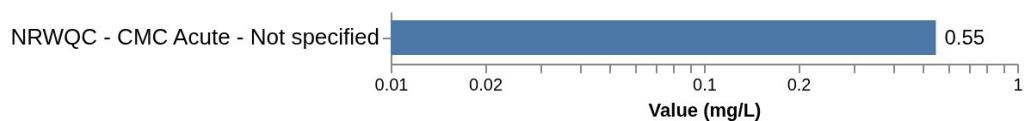


Table 315: Benchmark Values for Styrene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
100-42-5	EPA Region 3	BTAG – Marine	Not specified	0.910
100-42-5	EPA Region 4	Chronic Marine	Not specified	0.412
100-42-5	EPA Region 4	Acute Marine	Not specified	1.575
100-42-5	EPA Region 6	Saltwater Chronic	Not specified	0.455
100-42-5	EPA Region 6	Saltwater Acute	Not specified	2.730

Benchmark Values for Styrene in Surface Water (Marine)

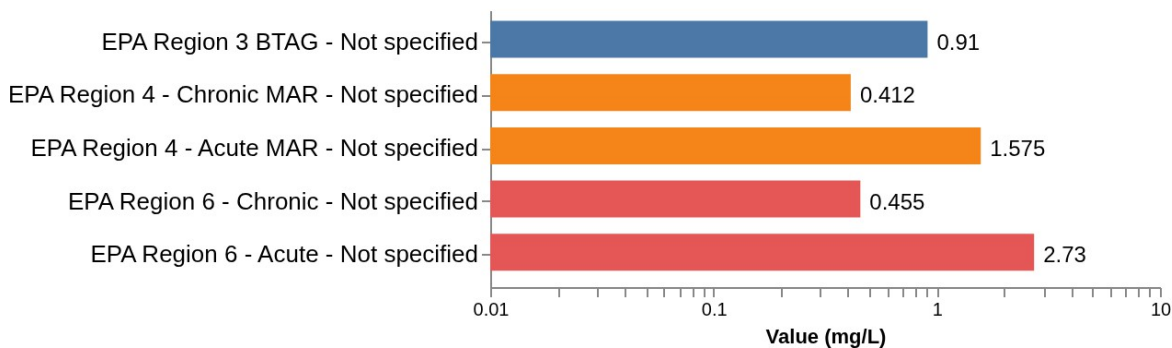


Table 316: Benchmark Values for Tebuthiuron in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
34014-18-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.00002	82, 87
34014-18-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.00220	82, 83
34014-18-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.02000	82, 83
34014-18-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.16000	82, 83

Benchmark Values for Tebuthiuron in Surface Water (Marine)

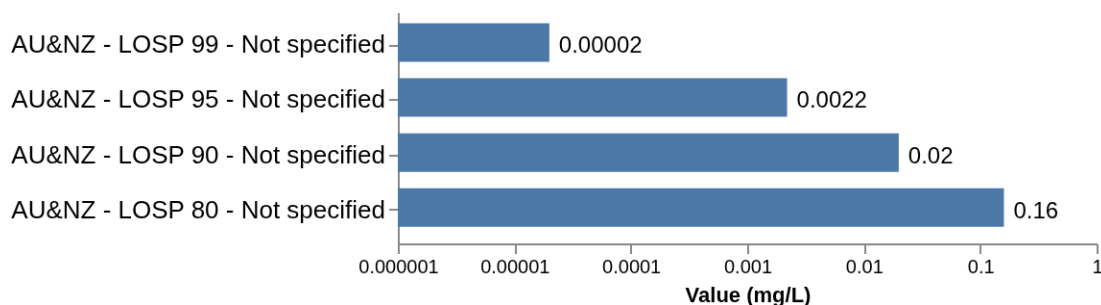


Table 317: Benchmark Values for Temephos in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3383-96-8	Australia and New Zealand	Marine LOSP 99	Not specified	4.000000e-07	88, 101
3383-96-8	Australia and New Zealand	Marine LOSP 95	Not specified	5.000000e-05	88, 93, 101
3383-96-8	Australia and New Zealand	Marine LOSP 90	Not specified	4.000000e-04	88, 101
3383-96-8	Australia and New Zealand	Marine LOSP 80	Not specified	3.600000e-03	88, 92, 101

Benchmark Values for Temephos in Surface Water (Marine)

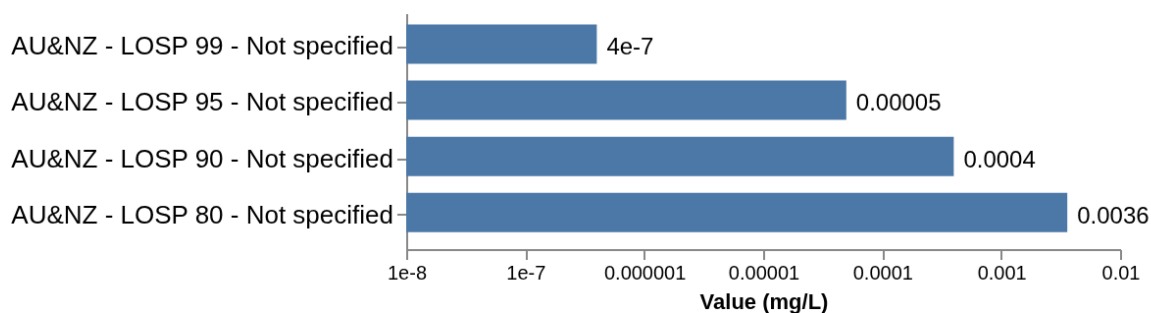


Table 318: Benchmark Values for Tetrachloro-3-nitrobenzene , 1,2,4,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
117-18-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0003	82, 83

Benchmark Values for Tetrachloro-3-nitrobenzene , 1,2,4,5- in Surface Water (Marine)

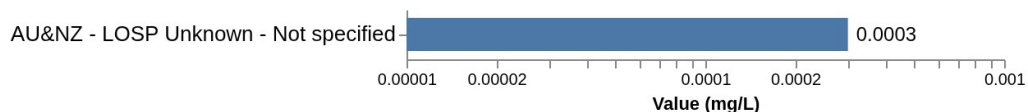


Table 319: Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
634-66-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.002	83, 89, 97
634-66-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.004	83, 97
634-66-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.006	83, 97
634-66-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.010	83, 97
634-66-2	EPA Region 4	Chronic Marine	Not specified	0.006	
634-66-2	EPA Region 4	Acute Marine	Not specified	0.039	

Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water (Marine)

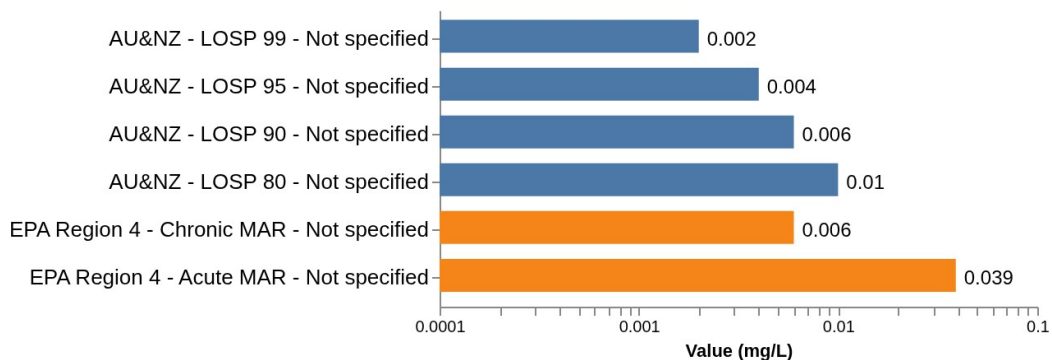


Table 320: Benchmark Values for Tetrachlorobenzene, 1,2,3,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
634-90-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.003	83, 89, 97
634-90-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.005	83, 97
634-90-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.007	83, 97
634-90-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.010	83

Benchmark Values for Tetrachlorobenzene, 1,2,3,5- in Surface Water (Marine)

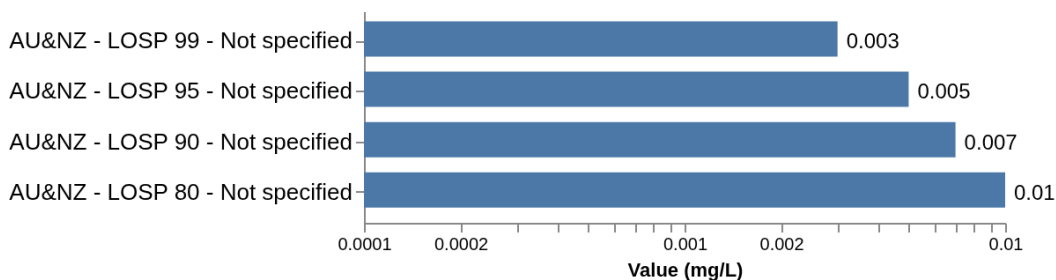


Table 321: Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-94-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.0030	83, 89, 97
95-94-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.0050	83, 97
95-94-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.0070	83, 97
95-94-3	Australia and New Zealand	Marine LOSP 80	Not specified	0.0090	83, 97
95-94-3	California	Saltwater chronic	Not specified	0.1290	
95-94-3	California	Saltwater acute	Not specified	0.1600	
95-94-3	EPA Region 3	BTAG – Marine	Not specified	0.1290	
95-94-3	EPA Region 4	Chronic Marine	Not specified	0.0060	
95-94-3	EPA Region 4	Acute Marine	Not specified	0.0390	
95-94-3	EPA Region 6	Saltwater Chronic	Not specified	0.0033	
95-94-3	EPA Region 6	Saltwater Acute	Not specified	0.0990	

Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water (Marine)

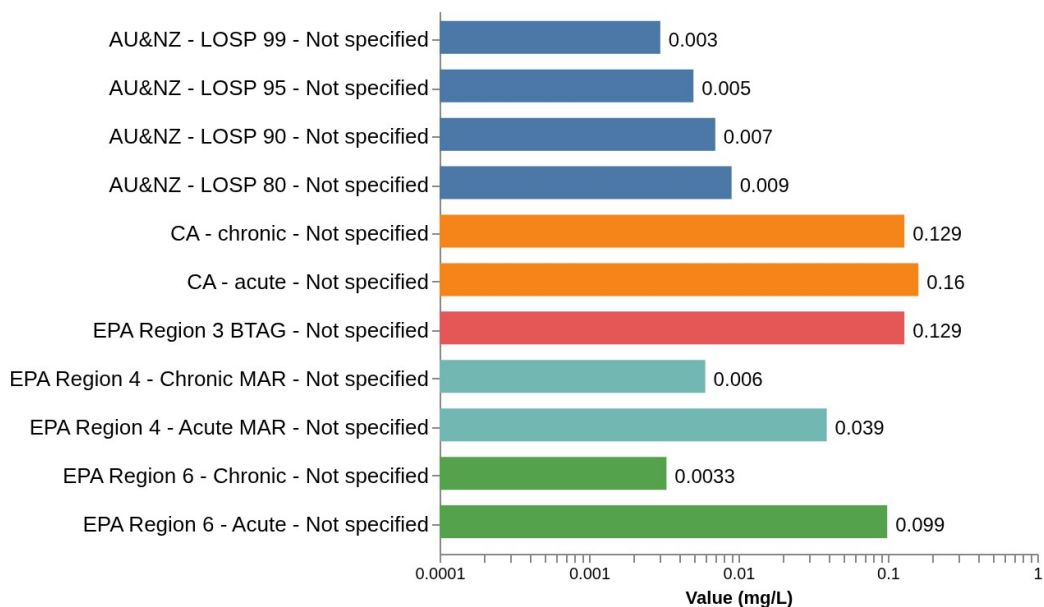


Table 322: Benchmark Values for Tetrachloroethane, 1,1,1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
630-20-6	EPA Region 4	Chronic Marine	Not specified	0.360
630-20-6	EPA Region 4	Acute Marine	Not specified	1.376

Benchmark Values for Tetrachloroethane, 1,1,1,2- in Surface Water (Marine)

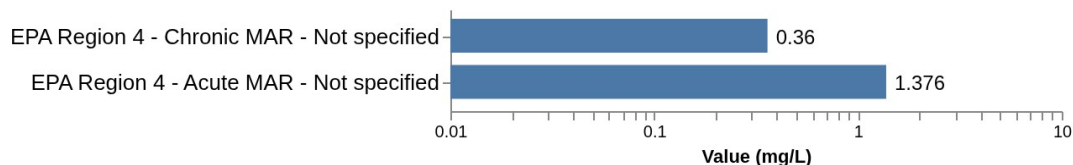


Table 323: Benchmark Values for Tetrachloroethane, 1,1,2,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-34-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.2000	83
79-34-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.4000	83, 89
79-34-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.5000	83
79-34-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.9000	83
79-34-5	California	Saltwater acute	Not specified	9.0200	
79-34-5	EPA Region 3	BTAG – Marine	Not specified	0.0902	
79-34-5	EPA Region 4	Chronic Marine	Not specified	0.0108	
79-34-5	EPA Region 4	Acute Marine	Not specified	0.9020	
79-34-5	EPA Region 6	Saltwater Chronic	Not specified	0.4510	
79-34-5	EPA Region 6	Saltwater Acute	Not specified	2.7060	
79-34-5	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0108	

Benchmark Values for Tetrachloroethane, 1,1,2,2- in Surface Water (Marine)

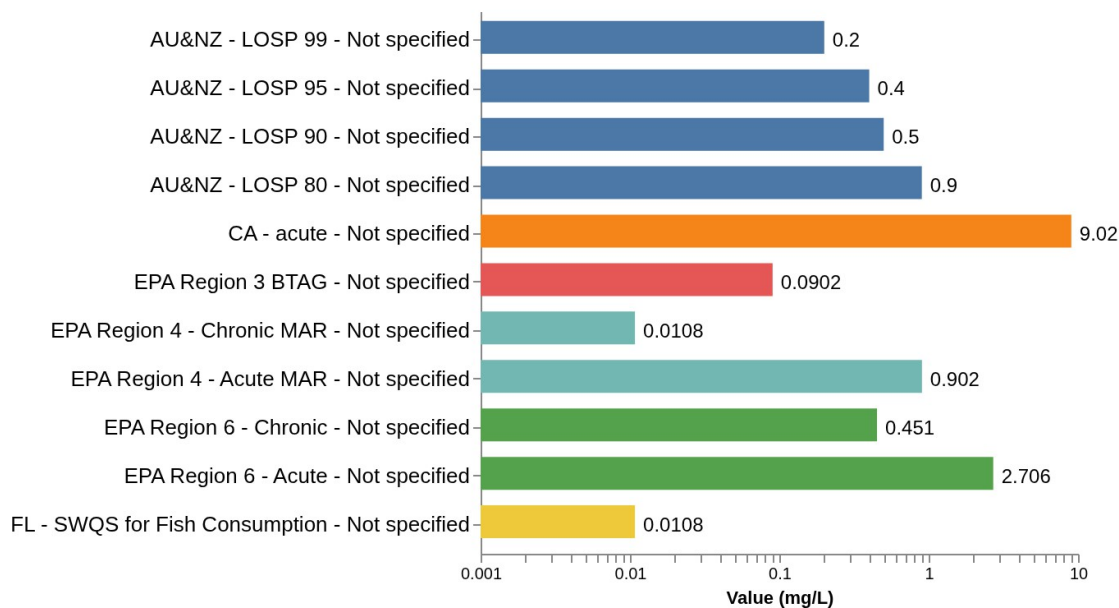


Table 324: Benchmark Values for Tetrachloroethylene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
127-18-4	Australia and New Zealand	Marine LOSP 99	Not specified	0.04000	83
127-18-4	Australia and New Zealand	Marine LOSP 95	Not specified	0.07000	83, 89
127-18-4	Australia and New Zealand	Marine LOSP 90	Not specified	0.10000	83
127-18-4	Australia and New Zealand	Marine LOSP 80	Not specified	0.15000	83
127-18-4	California	Saltwater chronic	Not specified	0.45000	
127-18-4	California	Saltwater acute	Not specified	10.20000	
127-18-4	EPA Region 3	BTAG – Marine	Not specified	0.04500	
127-18-4	EPA Region 4	Chronic Marine	Not specified	0.00885	
127-18-4	EPA Region 4	Acute Marine	Not specified	1.02000	
127-18-4	EPA Region 6	Saltwater Chronic	Not specified	0.50000	
127-18-4	EPA Region 6	Saltwater Acute	Not specified	1.50000	
127-18-4	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.00885	

Benchmark Values for Tetrachloroethylene in Surface Water (Marine)

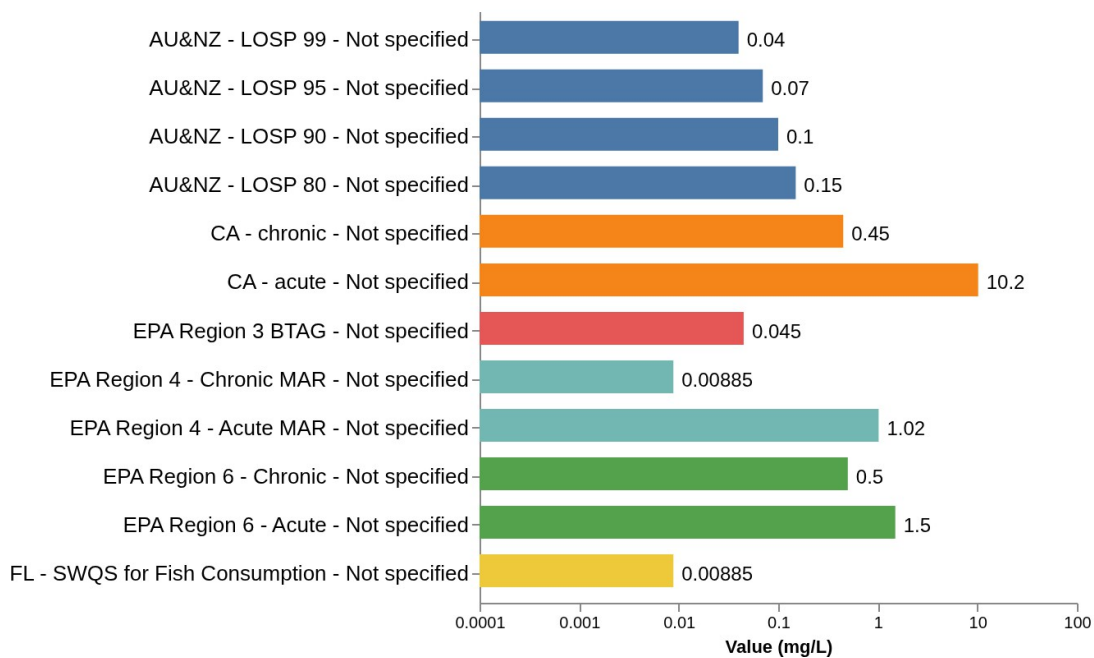


Table 325: Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
58-90-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.010	82, 87, 98
58-90-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.020	82, 83, 98
58-90-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.025	82, 83, 98
58-90-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.030	82, 83, 98
58-90-2	California	Marine 6-month median	Not specified	0.001	219
58-90-2	California	Marine daily max	Not specified	0.004	219
58-90-2	California	Marine instantaneous max	Not specified	0.010	219
58-90-2	California	Saltwater acute	Not specified	0.440	
58-90-2	EPA Region 4	Chronic Marine	Not specified	0.032	
58-90-2	EPA Region 4	Acute Marine	Not specified	0.120	

Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water (Marine)

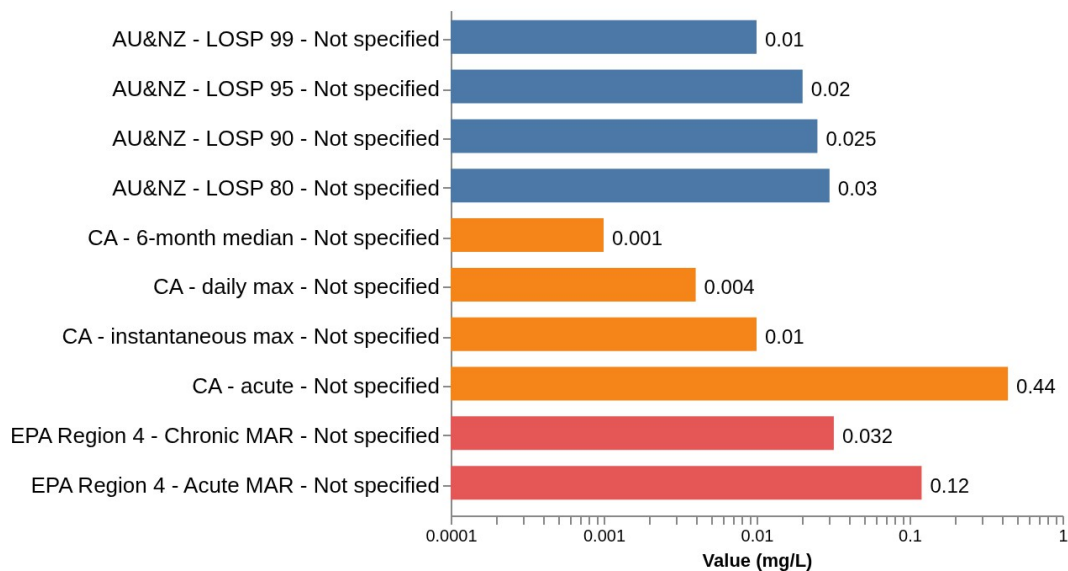
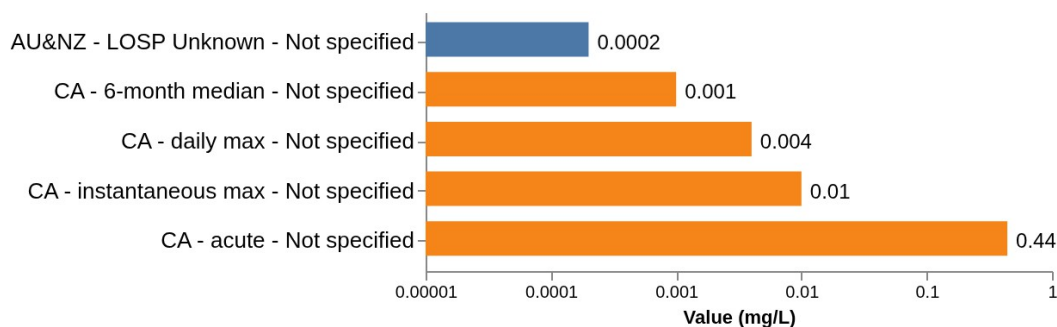
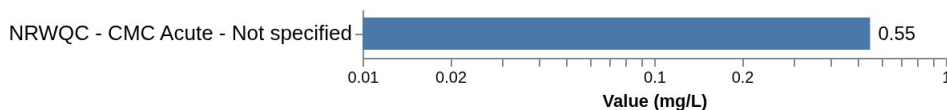


Table 326: Benchmark Values for Tetrachlorophenol, 2,3,5,6- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
935-95-5	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0002	82, 83, 99
935-95-5	California	Marine 6-month median	Not specified	0.0010	219
935-95-5	California	Marine daily max	Not specified	0.0040	219
935-95-5	California	Marine instantaneous max	Not specified	0.0100	219
935-95-5	California	Saltwater acute	Not specified	0.4400	

Benchmark Values for Tetrachlorophenol, 2,3,5,6- in Surface Water (Marine)**Table 327: Benchmark Values for Tetraethylammonium perfluorooctanesulfonate in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56773-42-3	EPA NRWQC	Saltwater CMC Acute	Not specified	0.55	112

Benchmark Values for Tetraethylammonium perfluorooctanesulfonate in Surface Water (Marine)**Table 328: Benchmark Values for Tetrahydrofuran in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
109-99-9	EPA Region 4	Chronic Marine	Not specified	19.606
109-99-9	EPA Region 4	Acute Marine	Not specified	68.203

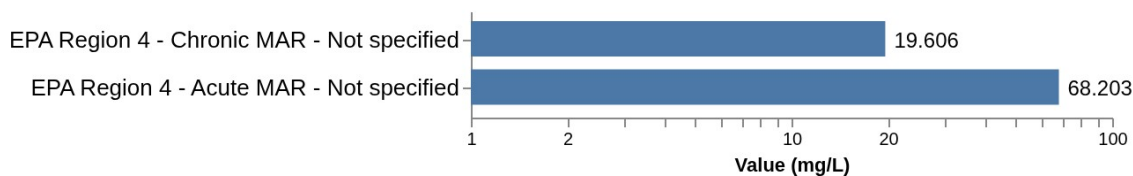
Benchmark Values for Tetrahydrofuran in Surface Water (Marine)

Table 329: Benchmark Values for Thallium (Soluble Salts) in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-28-0	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.0170	83
7440-28-0	California	Saltwater acute	Not specified	2.1300	
7440-28-0	EPA Region 3	BTAG – Marine	Not specified	0.0213	
7440-28-0	EPA Region 4	Chronic Marine	Not specified	0.0063	
7440-28-0	EPA Region 4	Acute Marine	Not specified	0.7100	
7440-28-0	EPA Region 6	Saltwater Chronic	Not specified	2.1000	
7440-28-0	EPA Region 6	Saltwater Acute	Not specified	6.3000	
7440-28-0	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0063	

Benchmark Values for Thallium (Soluble Salts) in Surface Water (Marine)

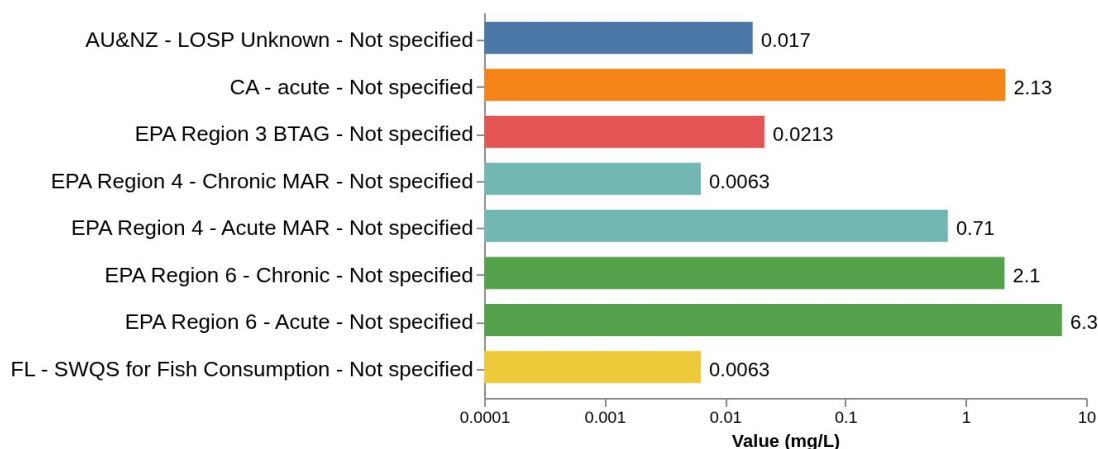


Table 330: Benchmark Values for Thiobencarb in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
28249-77-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.0010	82, 88
28249-77-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.0028	82, 83
28249-77-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.0046	82, 83
28249-77-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.0080	82, 83

Benchmark Values for Thiobencarb in Surface Water (Marine)

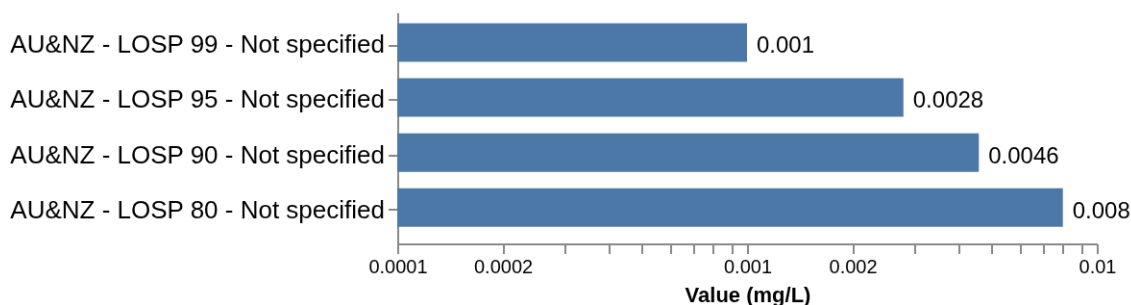


Table 331: Benchmark Values for Thiram in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
137-26-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.00001	82, 88
137-26-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.00020	82, 83
137-26-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.00080	82, 83
137-26-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.00300	82, 83

Benchmark Values for Thiram in Surface Water (Marine)

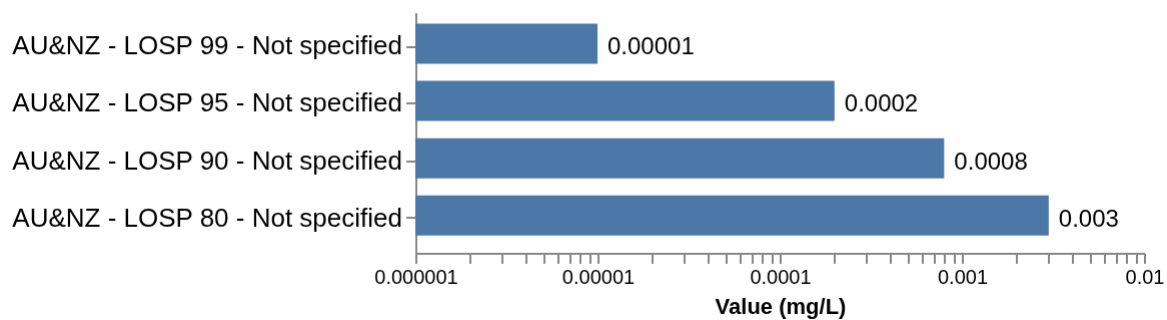


Table 332: Benchmark Values for Toluene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-88-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.110	83
108-88-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.180	83, 89
108-88-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.230	83
108-88-3	Australia and New Zealand	Marine LOSP 80	Not specified	0.330	83
108-88-3	California	Saltwater chronic	Not specified	5.000	
108-88-3	California	Saltwater acute	Not specified	6.300	
108-88-3	Canada	Marine Long Term	Not specified	0.215	
108-88-3	EPA Region 3	BTAG – Marine	Not specified	0.215	
108-88-3	EPA Region 4	Chronic Marine	Not specified	0.215	
108-88-3	EPA Region 4	Acute Marine	Not specified	0.950	
108-88-3	EPA Region 6	Saltwater Chronic	Not specified	1.300	
108-88-3	EPA Region 6	Saltwater Acute	Not specified	3.900	

Benchmark Values for Toluene in Surface Water (Marine)

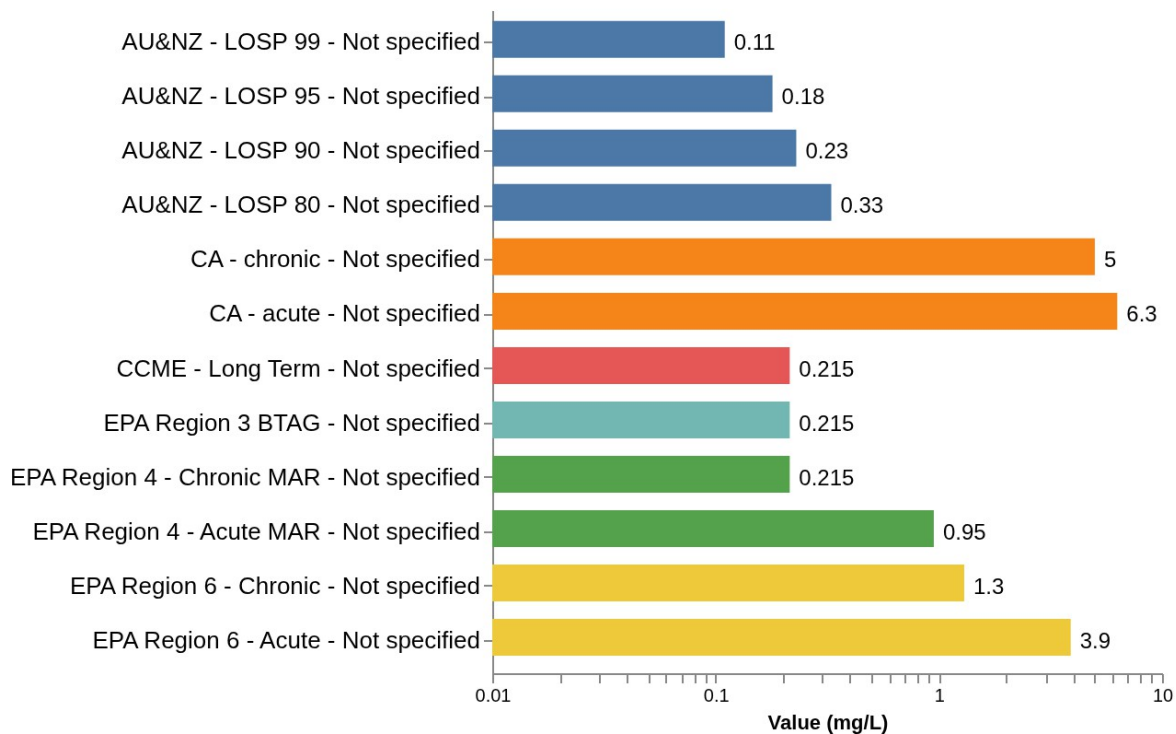


Table 333: Benchmark Values for Toxaphene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
8001-35-2	Australia and New Zealand	Marine LOSP Unknown	Not specified	6.000000e-07	83, 101
8001-35-2	California	Saltwater CCC, 4-day average	Not specified	2.000000e-07	
8001-35-2	California	Saltwater CMC, 1-hour average	Not specified	2.100000e-04	
8001-35-2	Delaware	Marine Chronic Criterion	Not specified	2.000000e-07	
8001-35-2	Delaware	Marine Acute Criterion	Not specified	2.100000e-04	
8001-35-2	EPA NRWQC	Saltwater CCC Chronic	Not specified	2.000000e-07	
8001-35-2	EPA NRWQC	Saltwater CMC Acute	Not specified	2.100000e-04	
8001-35-2	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	2.100000e-04	
8001-35-2	EPA Region 3	BTAG – Marine	Not specified	2.100000e-04	
8001-35-2	EPA Region 4	Chronic Marine	Not specified	2.000000e-07	7
8001-35-2	EPA Region 4	Acute Marine	Not specified	2.100000e-04	7
8001-35-2	EPA Region 6	Saltwater Chronic	Not specified	2.000000e-07	
8001-35-2	EPA Region 6	Saltwater Acute	Not specified	2.100000e-04	
8001-35-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	2.000000e-07	
8001-35-2	New Jersey	Marine Chronic	Not specified	2.000000e-07	
8001-35-2	New Jersey	Marine Acute	Not specified	2.100000e-04	

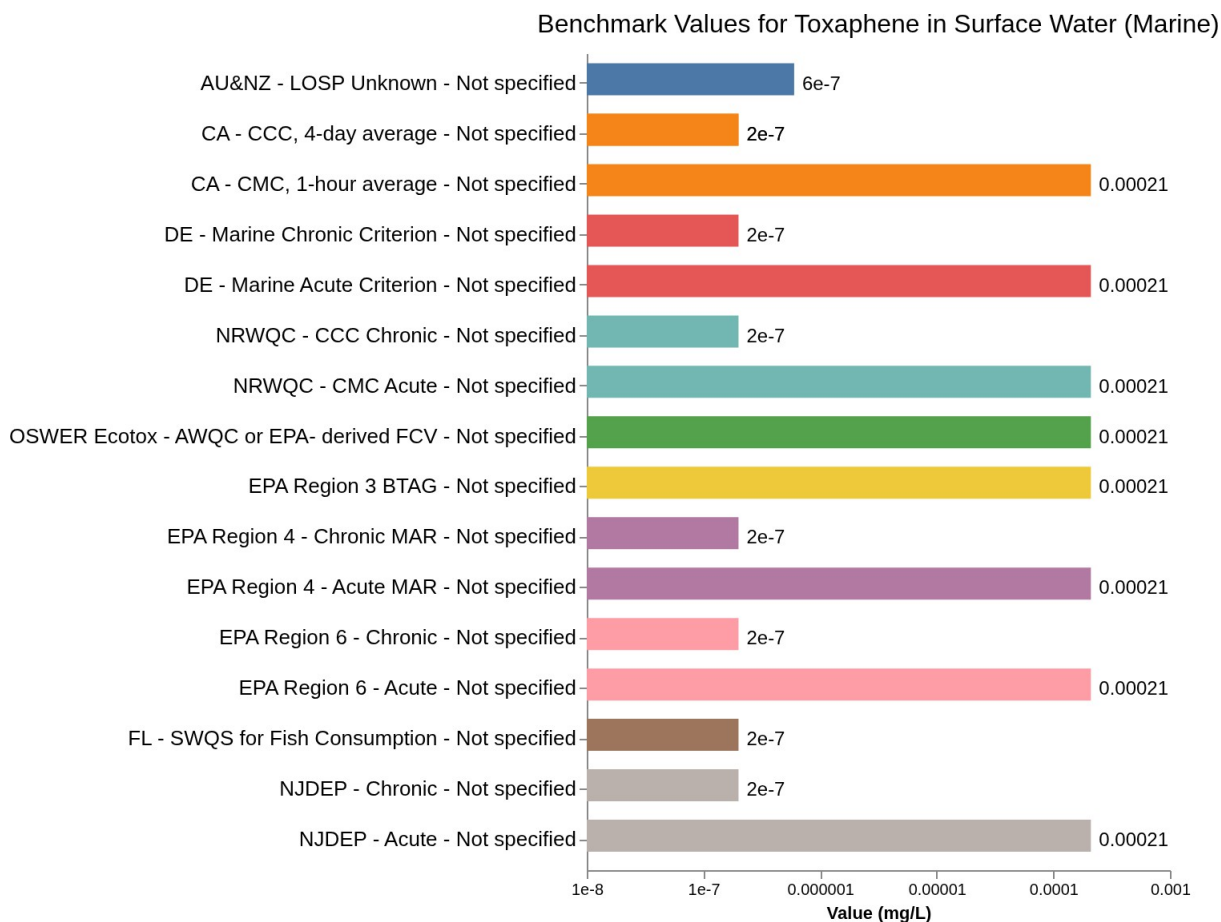


Table 334: Benchmark Values for Tribromodiphenyl Ether in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
49690-94-0	ECC Canada	Marine LTC	Not specified	0.000046

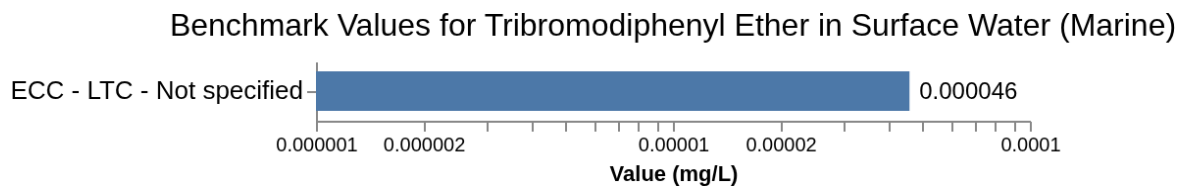


Table 335: Benchmark Values for Tribromophenol, 2,4,6– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
118–79–6	EPA Region 4	Chronic Marine	Not specified	0.037
118–79–6	EPA Region 4	Acute Marine	Not specified	0.140

Benchmark Values for Tribromophenol, 2,4,6- in Surface Water (Marine)

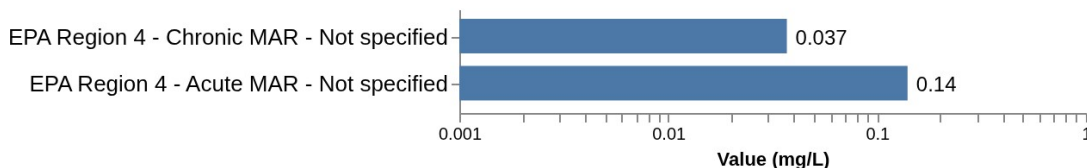


Table 336: Benchmark Values for Tributyltin Compounds in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–01–6	Delaware	Marine Chronic Criterion	Not specified	0.000007
000000–01–6	Delaware	Marine Acute Criterion	Not specified	0.000420

Benchmark Values for Tributyltin Compounds in Surface Water (Marine)

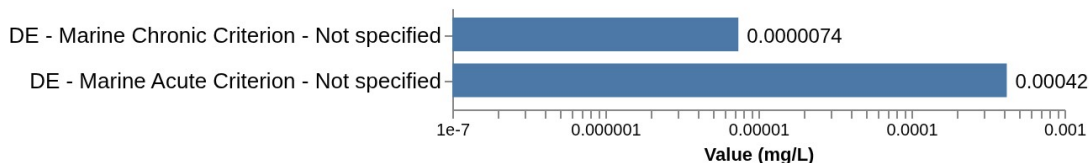


Table 337: Benchmark Values for Trichlorobenzene, 1,2,3– in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87–61–6	Australia and New Zealand	Marine LOSP 99	Not specified	0.003	82, 87, 97
87–61–6	Australia and New Zealand	Marine LOSP 95	Not specified	0.010	82, 83, 97
87–61–6	Australia and New Zealand	Marine LOSP 90	Not specified	0.016	82, 83, 97
87–61–6	Australia and New Zealand	Marine LOSP 80	Not specified	0.030	82, 83, 97
87–61–6	EPA Region 4	Chronic Marine	Not specified	0.005	
87–61–6	EPA Region 4	Acute Marine	Not specified	0.134	

Benchmark Values for Trichlorobenzene, 1,2,3- in Surface Water (Marine)

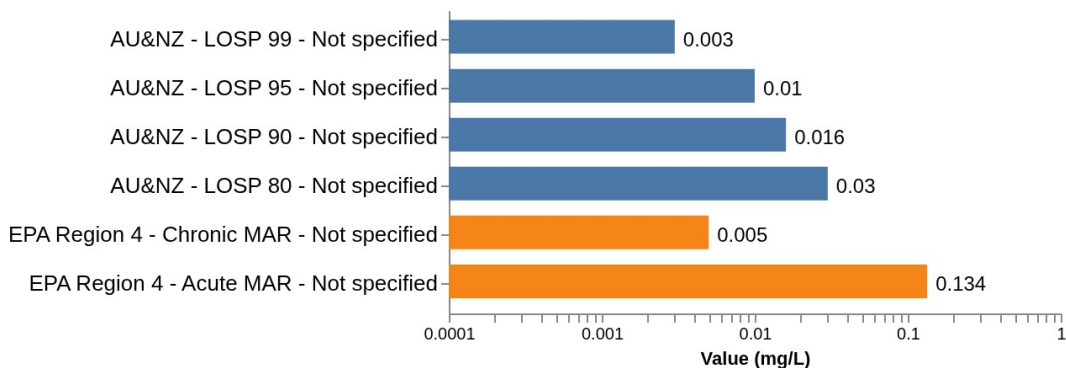


Table 338: Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-82-1	Australia and New Zealand	Marine LOSP 99	Not specified	0.0200	88, 89, 97
120-82-1	Australia and New Zealand	Marine LOSP 95	Not specified	0.0800	88, 97
120-82-1	Australia and New Zealand	Marine LOSP 90	Not specified	0.1400	88, 97
120-82-1	Australia and New Zealand	Marine LOSP 80	Not specified	0.2400	88, 97
120-82-1	California	Saltwater chronic	Not specified	0.1290	
120-82-1	California	Saltwater acute	Not specified	0.1600	
120-82-1	Canada	Marine Long Term	Not specified	0.0054	
120-82-1	EPA Region 3	BTAG – Marine	Not specified	0.0054	
120-82-1	EPA Region 4	Chronic Marine	Not specified	0.0054	
120-82-1	EPA Region 4	Acute Marine	Not specified	0.1340	
120-82-1	EPA Region 6	Saltwater Chronic	Not specified	0.0225	
120-82-1	EPA Region 6	Saltwater Acute	Not specified	0.1350	

Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water (Marine)

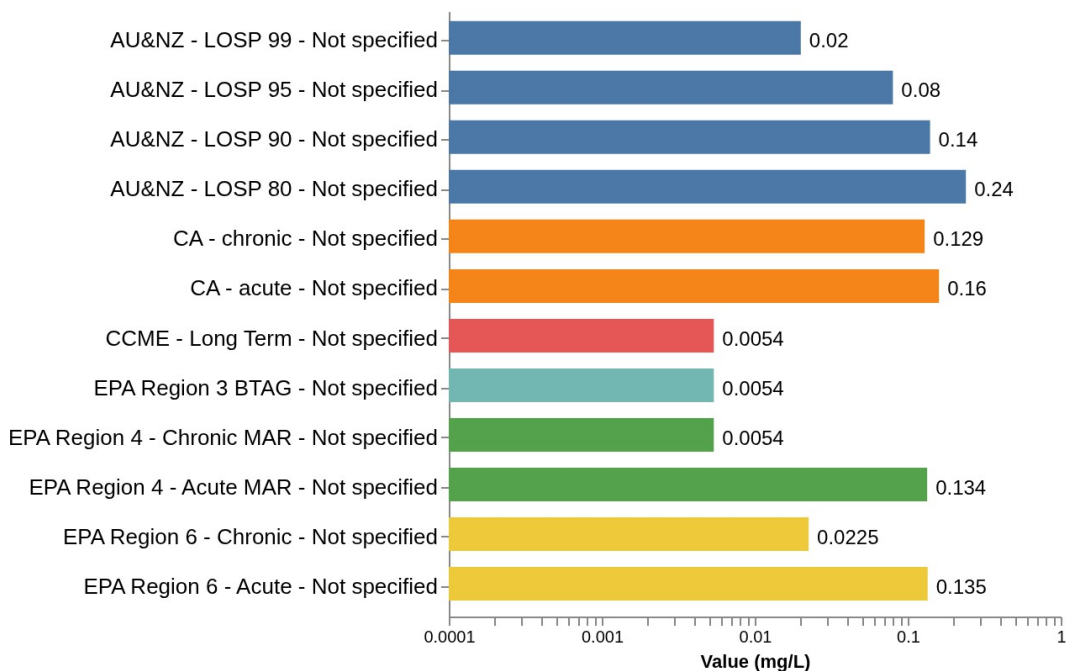


Table 339: Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-70-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.008	83, 97
108-70-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.013	83, 97
108-70-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.020	83, 97
108-70-3	Australia and New Zealand	Marine LOSP 80	Not specified	0.030	83, 97
108-70-3	California	Saltwater chronic	Not specified	0.129	
108-70-3	California	Saltwater acute	Not specified	0.160	
108-70-3	EPA Region 4	Chronic Marine	Not specified	0.005	
108-70-3	EPA Region 4	Acute Marine	Not specified	0.134	

Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water (Marine)

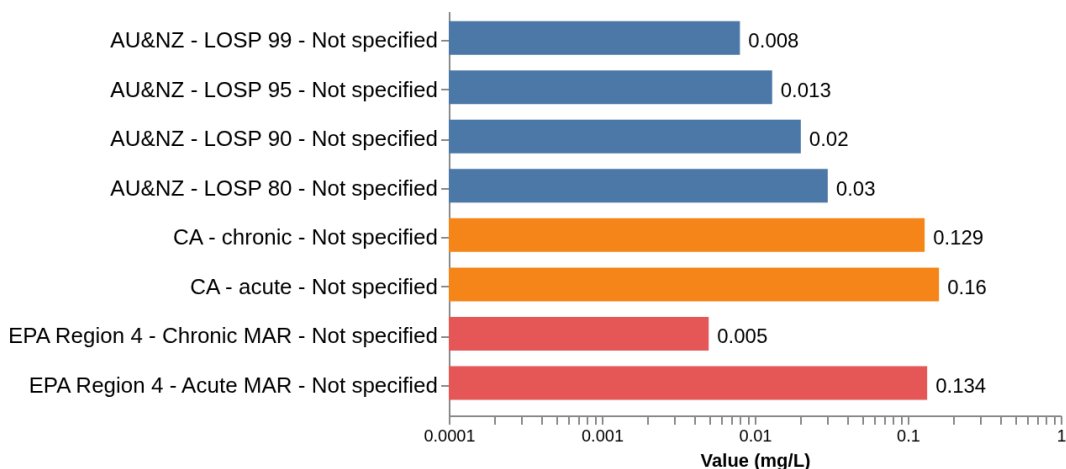


Table 340: Benchmark Values for Trichlorobenzene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
12002-48-1	California	Saltwater chronic	Not specified	0.129
12002-48-1	California	Saltwater acute	Not specified	0.160
12002-48-1	EPA Region 3	BTAG - Marine	Not specified	0.005
12002-48-1	EPA Region 4	Chronic Marine	Not specified	0.005
12002-48-1	EPA Region 4	Acute Marine	Not specified	0.134

Benchmark Values for Trichlorobenzene in Surface Water (Marine)

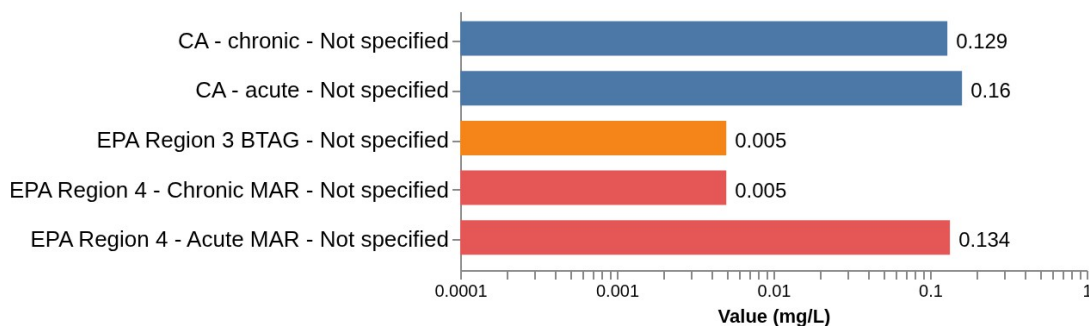


Table 341: Benchmark Values for Trichloroethane, 1,1,1- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-55-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.130	83
71-55-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.270	83, 89
71-55-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.400	83
71-55-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.650	83
71-55-6	California	Saltwater acute	Not specified	31.200	
71-55-6	EPA Region 3	BTAG – Marine	Not specified	0.312	
71-55-6	EPA Region 4	Chronic Marine	Not specified	1.560	
71-55-6	EPA Region 4	Acute Marine	Not specified	3.120	
71-55-6	EPA Region 6	Saltwater Chronic	Not specified	7.100	
71-55-6	EPA Region 6	Saltwater Acute	Not specified	21.300	

Benchmark Values for Trichloroethane, 1,1,1- in Surface Water (Marine)

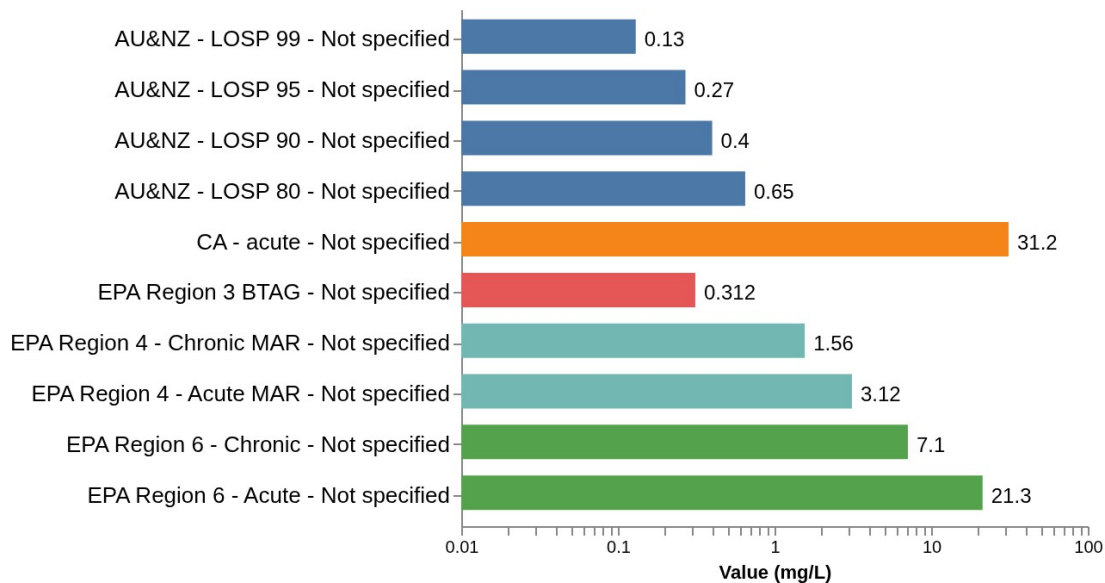


Table 342: Benchmark Values for Trichloroethane, 1,1,2- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-00-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.140	84
79-00-5	Australia and New Zealand	Marine LOSP 95	Not specified	1.900	84, 89
79-00-5	Australia and New Zealand	Marine LOSP 90	Not specified	5.800	84, 94
79-00-5	Australia and New Zealand	Marine LOSP 80	Not specified	18.000	84, 94
79-00-5	EPA Region 3	BTAG – Marine	Not specified	0.550	
79-00-5	EPA Region 4	Chronic Marine	Not specified	2.097	
79-00-5	EPA Region 4	Acute Marine	Not specified	8.026	
79-00-5	EPA Region 6	Saltwater Chronic	Not specified	0.275	
79-00-5	EPA Region 6	Saltwater Acute	Not specified	1.650	

Benchmark Values for Trichloroethane, 1,1,2- in Surface Water (Marine)

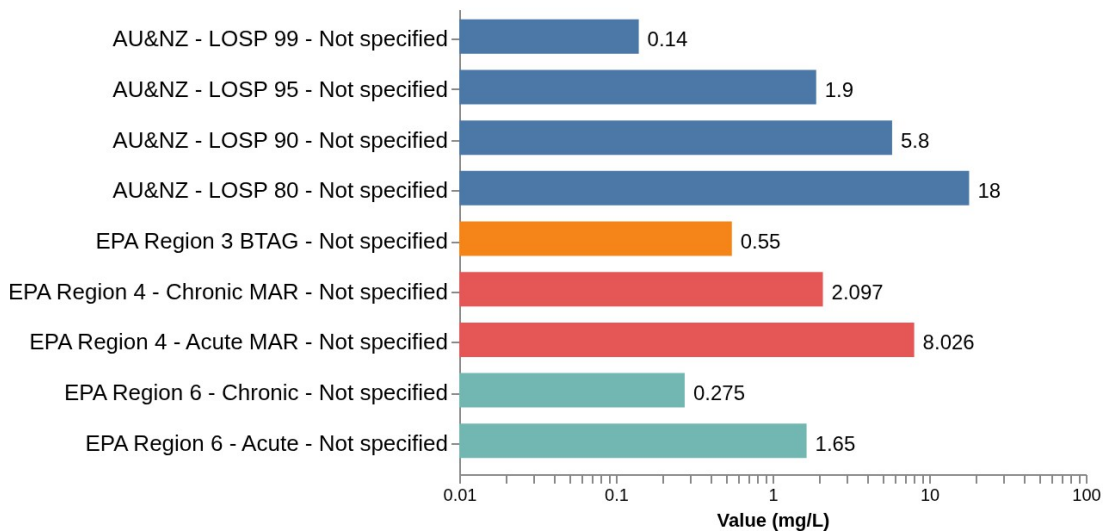


Table 343: Benchmark Values for Trichloroethylene in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-01-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.2200	83
79-01-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.3300	83, 89
79-01-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.4000	83
79-01-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.6000	83
79-01-6	California	Saltwater acute	Not specified	2.0000	
79-01-6	EPA Region 3	BTAG – Marine	Not specified	1.9400	
79-01-6	EPA Region 4	Chronic Marine	Not specified	0.0810	
79-01-6	EPA Region 4	Acute Marine	Not specified	0.2000	
79-01-6	EPA Region 6	Saltwater Chronic	Not specified	1.6000	
79-01-6	EPA Region 6	Saltwater Acute	Not specified	4.8000	
79-01-6	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0807	

Benchmark Values for Trichloroethylene in Surface Water (Marine)

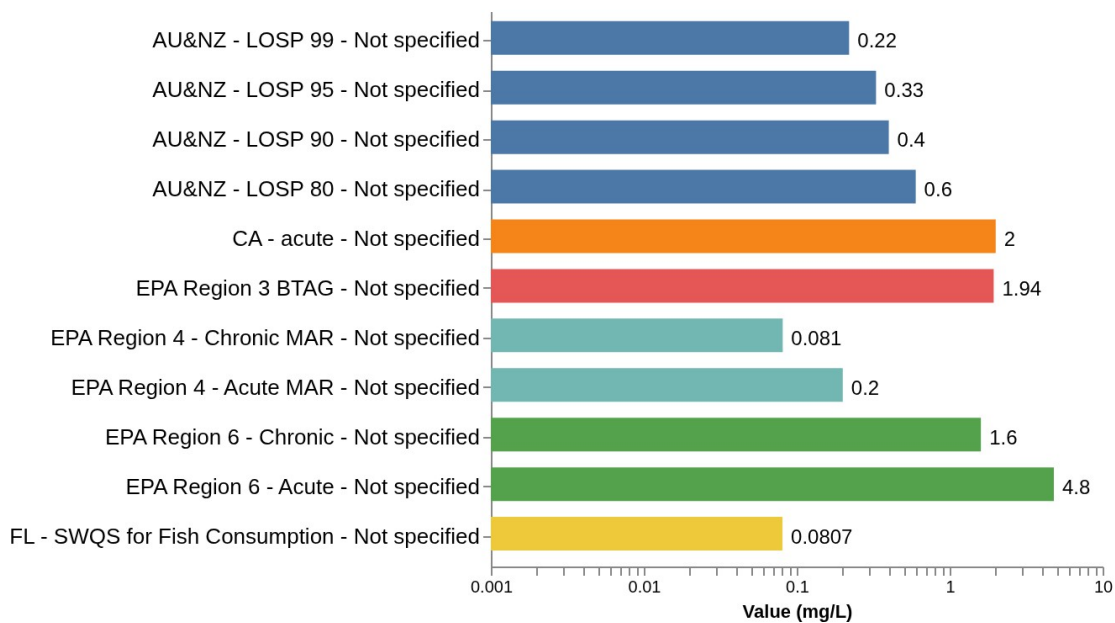


Table 344: Benchmark Values for Trichlorofluoromethane in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-69-4	California	Saltwater chronic	Not specified	6.4
75-69-4	California	Saltwater other toxicity	Not specified	11.5
75-69-4	California	Saltwater acute	Not specified	12.0

Benchmark Values for Trichlorofluoromethane in Surface Water (Marine)

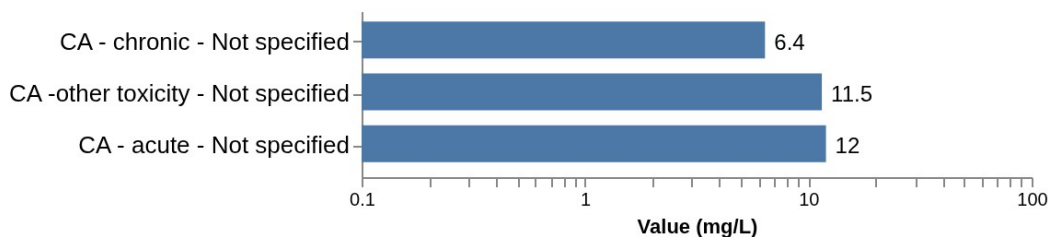


Table 345: Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-95-4	California	Marine 6-month median	Not specified	0.001	219
95-95-4	California	Marine daily max	Not specified	0.004	219
95-95-4	California	Marine instantaneous max	Not specified	0.010	219
95-95-4	EPA Region 3	BTAG - Marine	Not specified	0.012	
95-95-4	EPA Region 4	Chronic Marine	Not specified	0.012	
95-95-4	EPA Region 4	Acute Marine	Not specified	0.259	
95-95-4	EPA Region 6	Saltwater Chronic	Not specified	0.012	
95-95-4	EPA Region 6	Saltwater Acute	Not specified	0.259	

Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water (Marine)

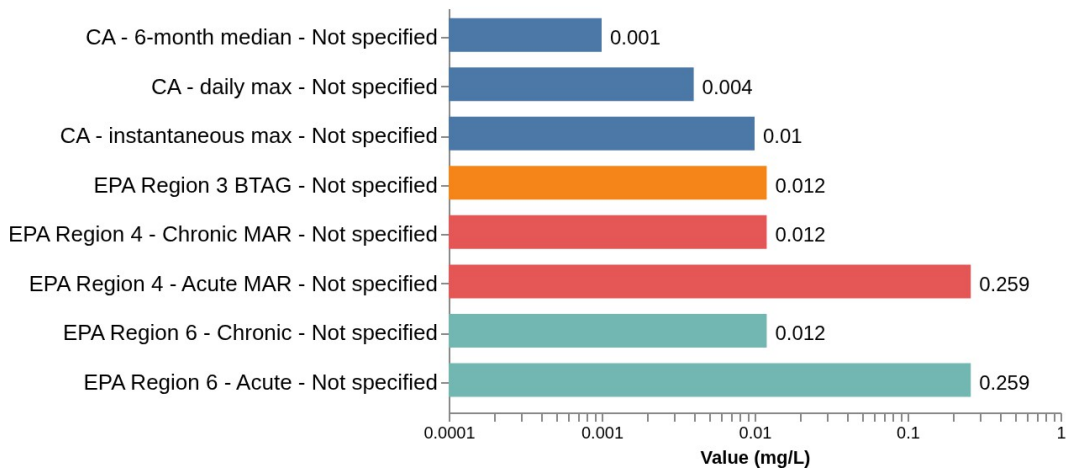


Table 346: Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-06-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.0030	82, 88, 100
88-06-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.0200	82, 83, 100
88-06-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.0400	82, 83, 100
88-06-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.0950	82, 83, 100
88-06-2	California	Marine 6-month median	Not specified	0.0010	219
88-06-2	California	Marine daily max	Not specified	0.0040	219
88-06-2	California	Marine instantaneous max	Not specified	0.0100	219
88-06-2	EPA Region 3	BTAG – Marine	Not specified	0.0610	
88-06-2	EPA Region 4	Chronic Marine	Not specified	0.0065	
88-06-2	EPA Region 4	Acute Marine	Not specified	0.4140	
88-06-2	EPA Region 6	Saltwater Chronic	Not specified	0.0610	
88-06-2	EPA Region 6	Saltwater Acute	Not specified	0.3630	
88-06-2	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0065	

Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water (Marine)

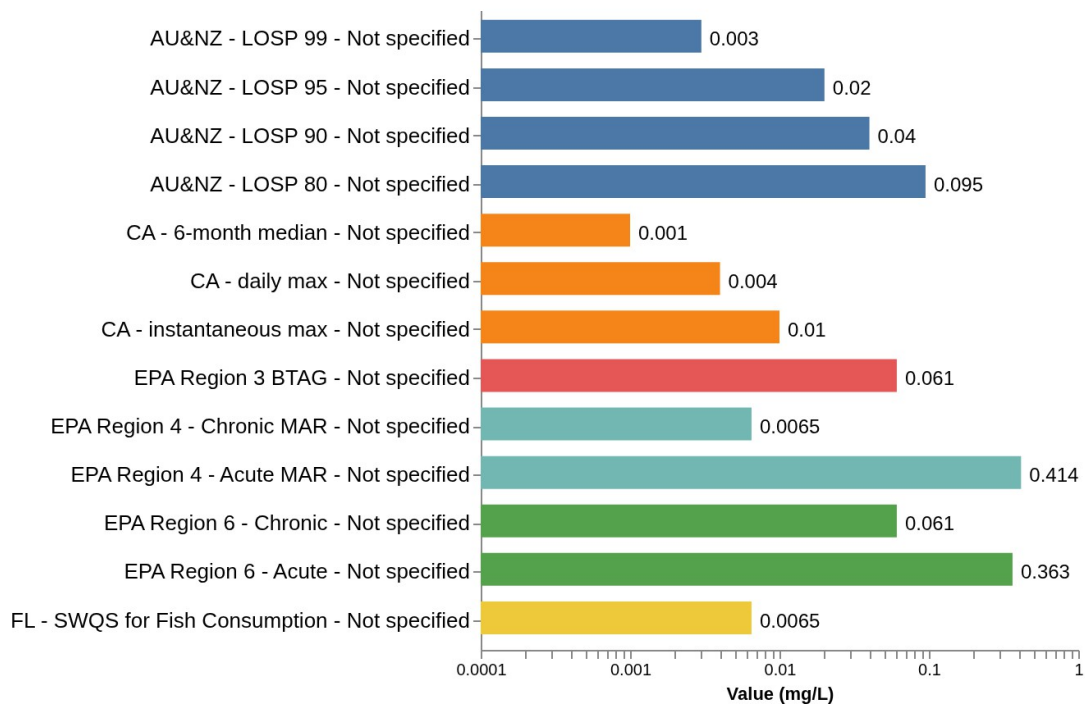


Table 347: Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
93-76-5	Australia and New Zealand	Marine LOSP 99	Not specified	0.003	82, 88
93-76-5	Australia and New Zealand	Marine LOSP 95	Not specified	0.036	82, 83
93-76-5	Australia and New Zealand	Marine LOSP 90	Not specified	0.100	82, 83
93-76-5	Australia and New Zealand	Marine LOSP 80	Not specified	0.290	82, 83

Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water (Marine)

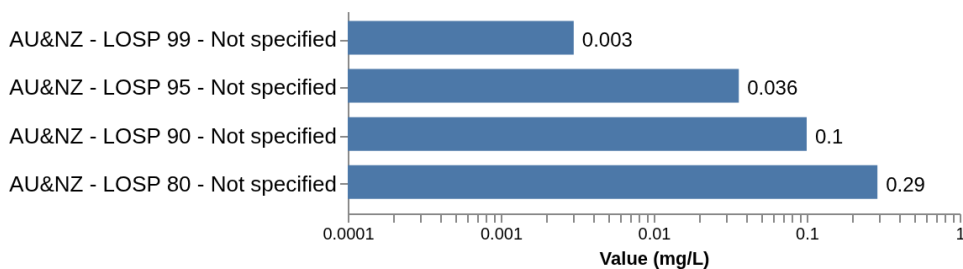


Table 348: Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
93-72-1	EPA Region 4	Chronic Marine	Not specified	0.05

Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water (Marine)

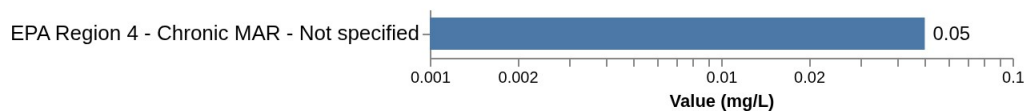


Table 349: Benchmark Values for Trifluralin in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1582-09-8	Australia and New Zealand	Marine LOSP 99	Not specified	0.0026	82, 88, 101
1582-09-8	Australia and New Zealand	Marine LOSP 95	Not specified	0.0044	82, 83, 101
1582-09-8	Australia and New Zealand	Marine LOSP 90	Not specified	0.0060	82, 83, 101
1582-09-8	Australia and New Zealand	Marine LOSP 80	Not specified	0.0090	82, 83, 101
1582-09-8	EPA Region 4	Chronic Marine	Not specified	0.0030	7
1582-09-8	EPA Region 4	Acute Marine	Not specified	0.0120	7

Benchmark Values for Trifluralin in Surface Water (Marine)

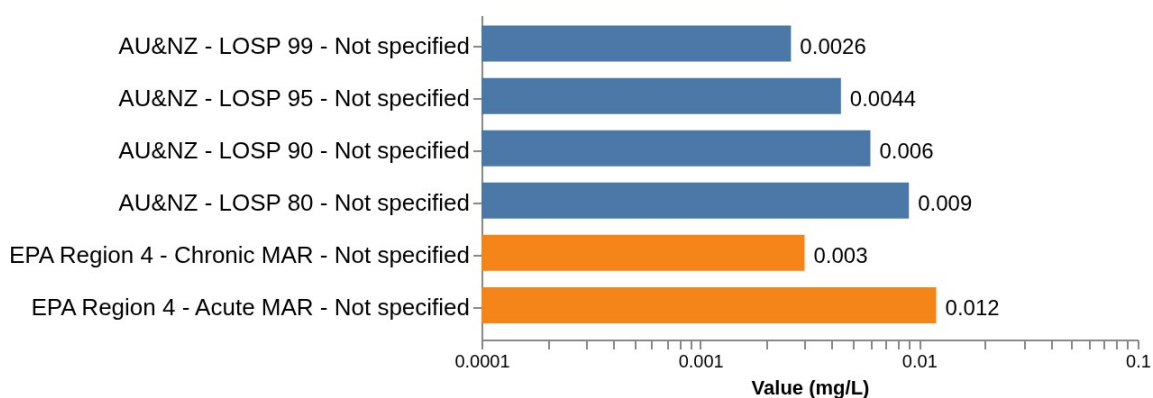


Table 350: Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
95-63-6	EPA Region 3	BTAG – Marine	Not specified	0.019
95-63-6	EPA Region 4	Chronic Marine	Not specified	0.056
95-63-6	EPA Region 4	Acute Marine	Not specified	0.366
95-63-6	EPA Region 6	Saltwater Chronic	Not specified	0.217
95-63-6	EPA Region 6	Saltwater Acute	Not specified	1.305

Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water (Marine)

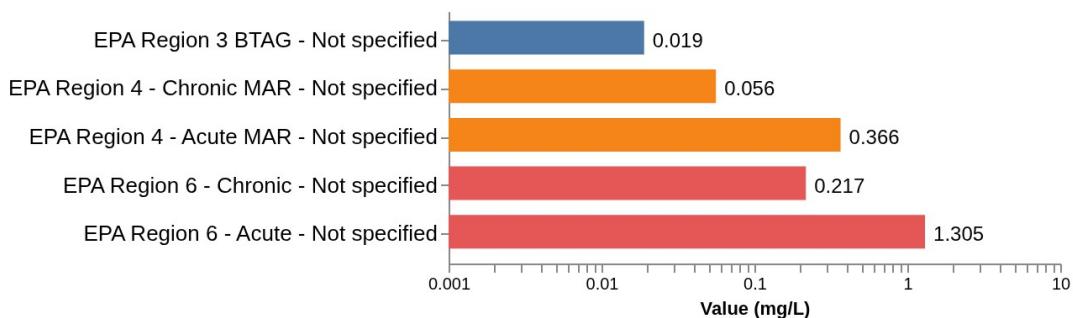
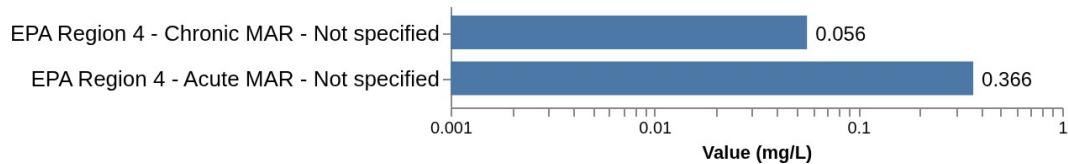


Table 351: Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-67-8	EPA Region 4	Chronic Marine	Not specified	0.056
108-67-8	EPA Region 4	Acute Marine	Not specified	0.366

Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water (Marine)**Table 352: Benchmark Values for Tri-n-butyltin in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
688-73-3	Australia and New Zealand	Marine LOSP 99	Not specified	4.000000e-07	86
688-73-3	Australia and New Zealand	Marine LOSP 95	Not specified	6.000000e-06	86, 90
688-73-3	Australia and New Zealand	Marine LOSP 90	Not specified	2.000000e-05	86, 94
688-73-3	Australia and New Zealand	Marine LOSP 80	Not specified	5.000000e-05	86, 94
688-73-3	California	Saltwater CCC, 4-day average	Not specified	7.400000e-06	
688-73-3	California	Saltwater CMC, 1-hour average	Not specified	4.200000e-04	
688-73-3	Canada	Marine Long Term	Not specified	1.000000e-06	
688-73-3	EPA NRWQC	Saltwater CCC Chronic	Not specified	7.400000e-06	
688-73-3	EPA NRWQC	Saltwater CMC Acute	Not specified	4.200000e-04	
688-73-3	EPA Region 3	BTAG – Marine	Not specified	1.000000e-06	
688-73-3	EPA Region 4	Chronic Marine	Not specified	7.400000e-06	
688-73-3	EPA Region 4	Acute Marine	Not specified	4.200000e-04	
688-73-3	EPA Region 6	Saltwater Chronic	Not specified	7.400000e-06	
688-73-3	EPA Region 6	Saltwater Acute	Not specified	2.400000e-04	

Benchmark Values for Tri-n-butyltin in Surface Water (Marine)

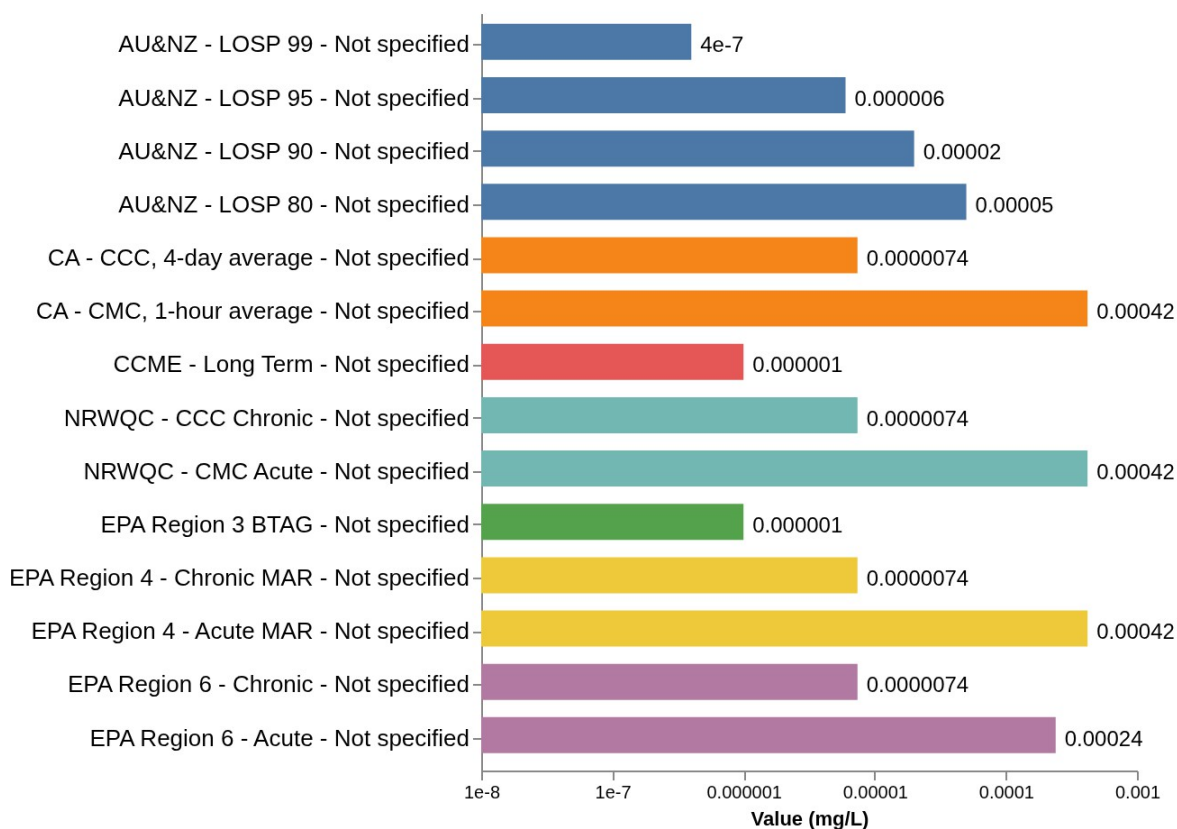


Table 353: Benchmark Values for Trinitrobenzene, 1,3,5- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-35-4	Australia and New Zealand	Marine LOSP Unknown	Not specified	0.004	82, 83
99-35-4	EPA Region 4	Chronic Marine	Not specified	0.011	
99-35-4	EPA Region 4	Acute Marine	Not specified	0.036	
99-35-4	EPA Region 6	Saltwater Chronic	Not specified	0.350	
99-35-4	EPA Region 6	Saltwater Acute	Not specified	0.610	

Benchmark Values for Trinitrobenzene, 1,3,5- in Surface Water (Marine)

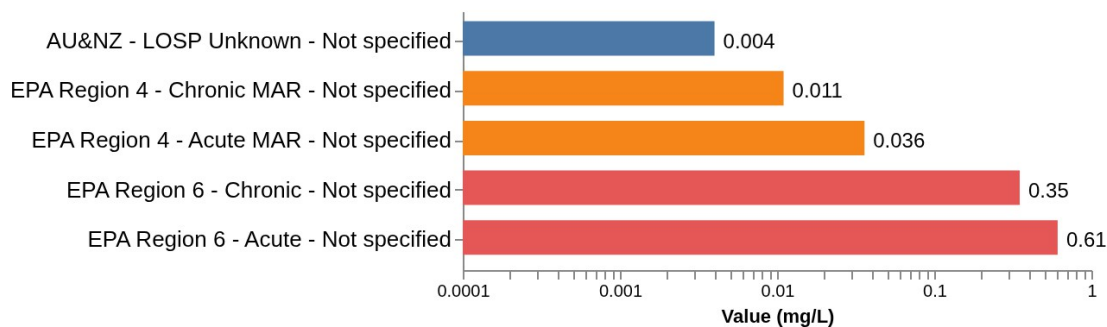


Table 354: Benchmark Values for Trinitrotoluene, 2,4,6- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
118-96-7	Australia and New Zealand	Marine LOSP 99	Not specified	0.100	82, 88
118-96-7	Australia and New Zealand	Marine LOSP 95	Not specified	0.140	82, 83
118-96-7	Australia and New Zealand	Marine LOSP 90	Not specified	0.160	82, 83
118-96-7	Australia and New Zealand	Marine LOSP 80	Not specified	0.210	82, 83
118-96-7	EPA Region 3	BTAG – Marine	Not specified	0.100	
118-96-7	EPA Region 4	Chronic Marine	Not specified	0.054	
118-96-7	EPA Region 4	Acute Marine	Not specified	0.252	
118-96-7	EPA Region 6	Saltwater Chronic	Not specified	0.050	
118-96-7	EPA Region 6	Saltwater Acute	Not specified	0.300	

Benchmark Values for Trinitrotoluene, 2,4,6- in Surface Water (Marine)

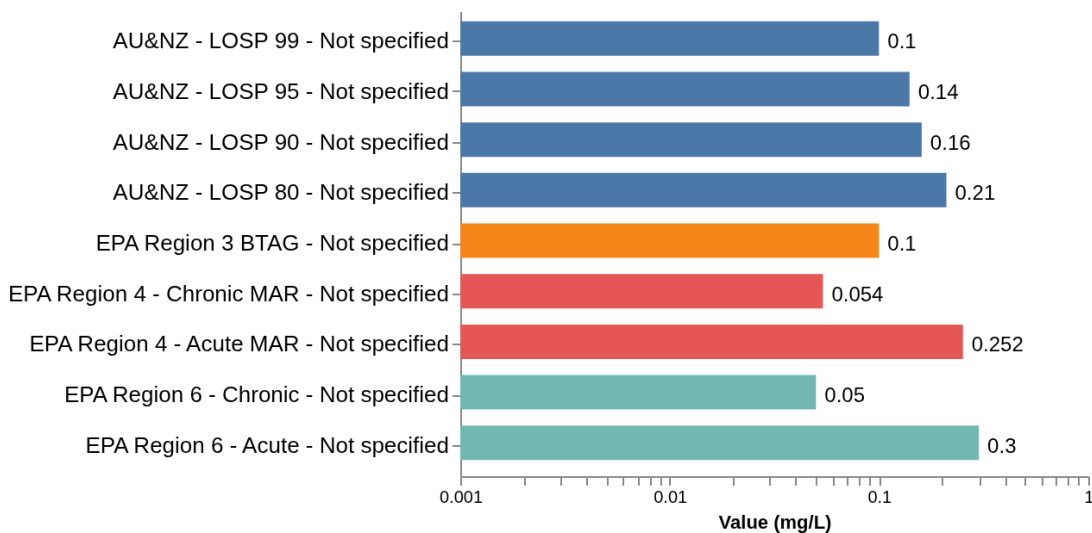
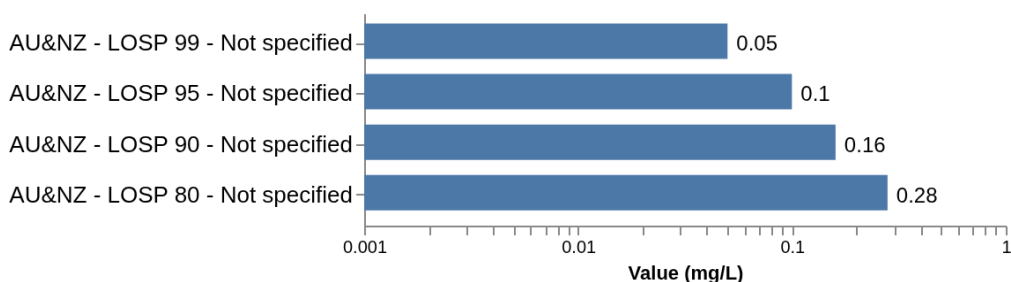
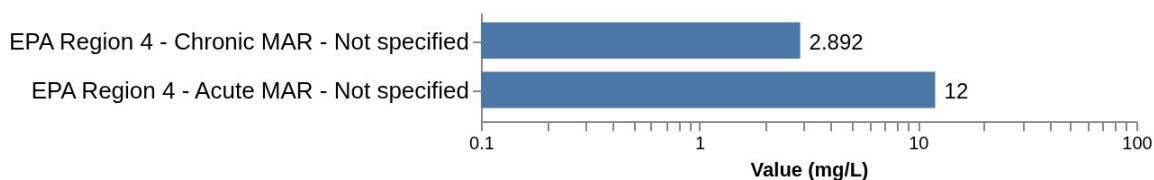


Table 355: Benchmark Values for Vanadium and Compounds in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-62-2	Australia and New Zealand	Marine LOSP 99	Not specified	0.05	88
7440-62-2	Australia and New Zealand	Marine LOSP 95	Not specified	0.10	88, 89
7440-62-2	Australia and New Zealand	Marine LOSP 90	Not specified	0.16	83
7440-62-2	Australia and New Zealand	Marine LOSP 80	Not specified	0.28	88

Benchmark Values for Vanadium and Compounds in Surface Water (Marine)**Table 356: Benchmark Values for Vinyl Acetate in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)
108-05-4	EPA Region 4	Chronic Marine	Not specified	2.892
108-05-4	EPA Region 4	Acute Marine	Not specified	12.000

Benchmark Values for Vinyl Acetate in Surface Water (Marine)**Table 357: Benchmark Values for Vinyl Chloride in Surface Water (Marine)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-01-4	Australia and New Zealand	Marine LOSP 99	Not specified	0.070	83
75-01-4	Australia and New Zealand	Marine LOSP 95	Not specified	0.100	83, 89
75-01-4	Australia and New Zealand	Marine LOSP 90	Not specified	0.140	83
75-01-4	Australia and New Zealand	Marine LOSP 80	Not specified	0.200	83
75-01-4	EPA Region 4	Chronic Marine	Not specified	2.276	
75-01-4	EPA Region 4	Acute Marine	Not specified	8.717	

Benchmark Values for Vinyl Chloride in Surface Water (Marine)

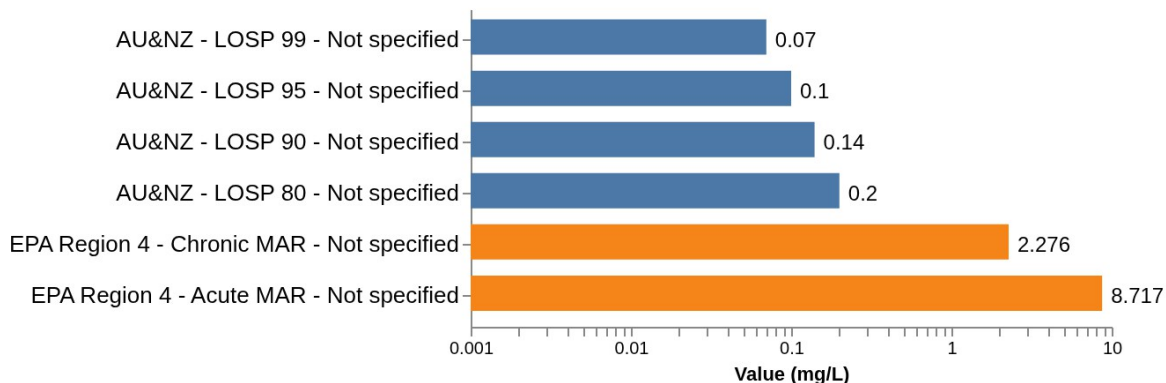


Table 358: Benchmark Values for Xylene, m- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-38-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.050	83
108-38-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.075	83, 89
108-38-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.100	83
108-38-3	Australia and New Zealand	Marine LOSP 80	Not specified	0.150	83

Benchmark Values for Xylene, m- in Surface Water (Marine)

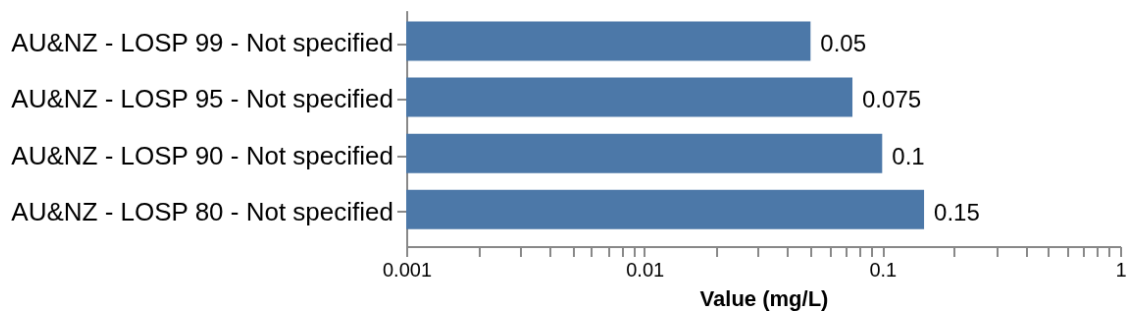


Table 359: Benchmark Values for Xylene, o- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-47-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.20	82, 83
95-47-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.35	82, 83
95-47-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.47	82, 83
95-47-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.64	82, 83

Benchmark Values for Xylene, o- in Surface Water (Marine)

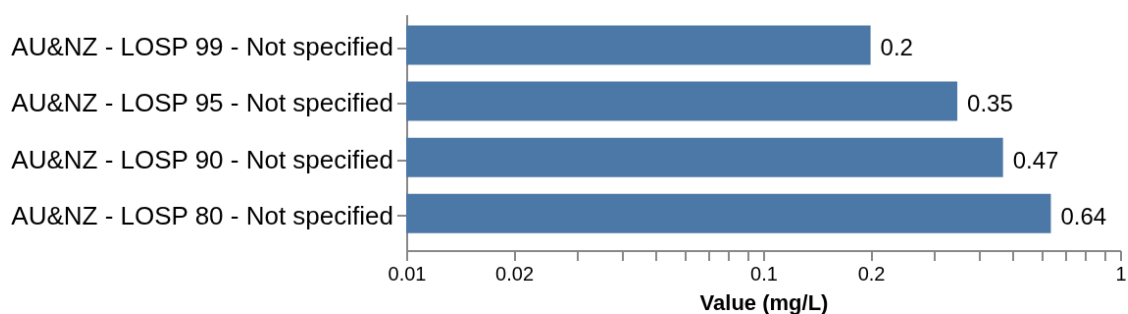


Table 360: Benchmark Values for Xylene, p- in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-42-3	Australia and New Zealand	Marine LOSP 99	Not specified	0.14	82, 83
106-42-3	Australia and New Zealand	Marine LOSP 95	Not specified	0.20	82, 83
106-42-3	Australia and New Zealand	Marine LOSP 90	Not specified	0.25	82, 83
106-42-3	Australia and New Zealand	Marine LOSP 80	Not specified	0.34	82, 83

Benchmark Values for Xylene, p- in Surface Water (Marine)

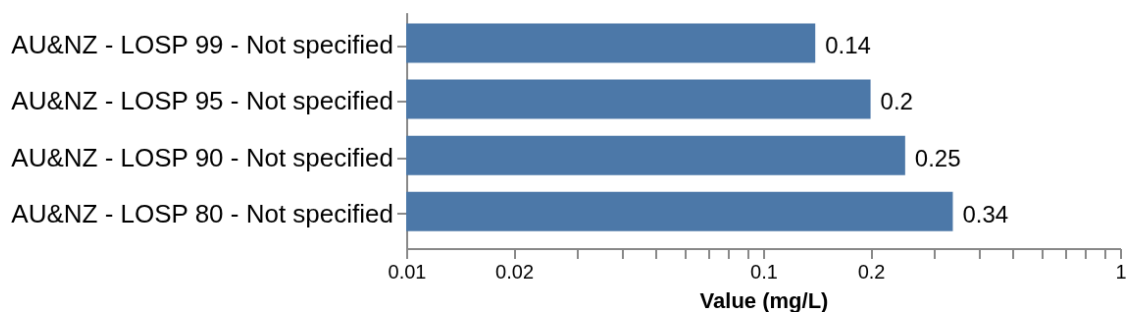


Table 361: Benchmark Values for Xylenes in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1330-20-7	EPA Region 3	BTAG – Marine	Not specified	0.019	
1330-20-7	EPA Region 4	Chronic Marine	Not specified	0.260	
1330-20-7	EPA Region 4	Acute Marine	Not specified	1.057	
1330-20-7	EPA Region 6	Saltwater Chronic	Not specified	0.850	
1330-20-7	EPA Region 6	Saltwater Acute	Not specified	2.550	

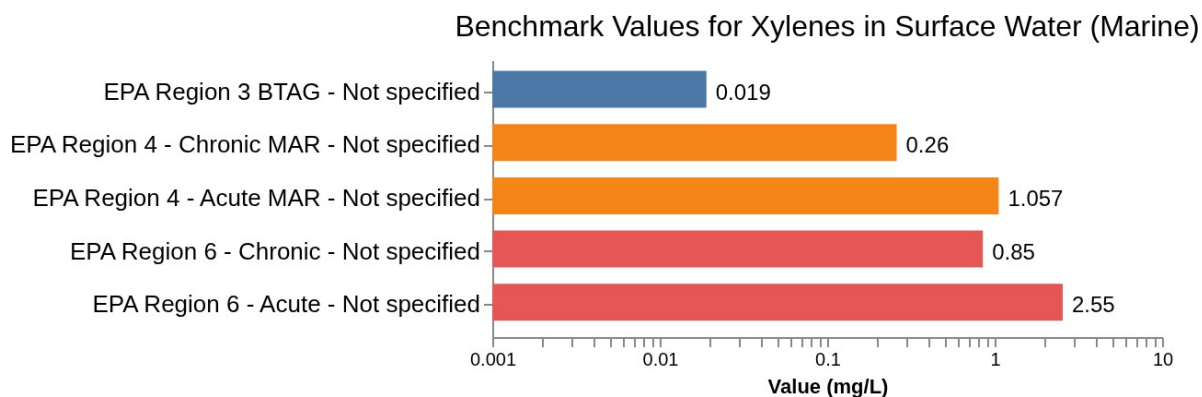
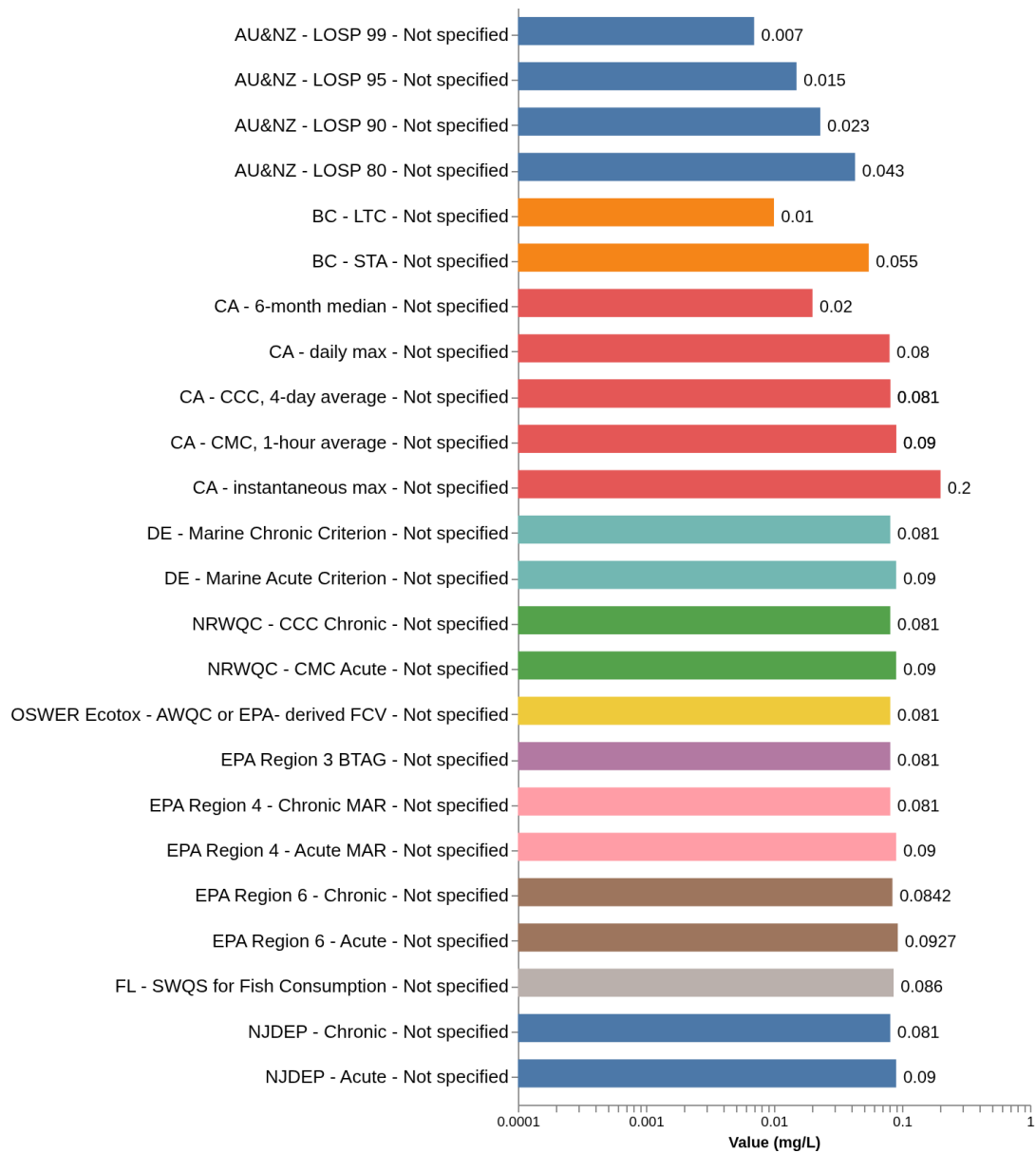


Table 362: Benchmark Values for Zinc and Compounds in Surface Water (Marine)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-66-6	Australia and New Zealand	Marine LOSP 99	Not specified	0.0070	88
7440-66-6	Australia and New Zealand	Marine LOSP 95	Not specified	0.0150	88, 90
7440-66-6	Australia and New Zealand	Marine LOSP 90	Not specified	0.0230	88, 90
7440-66-6	Australia and New Zealand	Marine LOSP 80	Not specified	0.0430	88, 94
7440-66-6	British Columbia	Marine LTC	Not specified	0.0100	
7440-66-6	British Columbia	Marine STA	Not specified	0.0550	
7440-66-6	California	Marine 6-month median	Not specified	0.0200	218
7440-66-6	California	Marine daily max	Not specified	0.0800	218
7440-66-6	California	Saltwater CCC, 4-day average	Not specified	0.0810	214
7440-66-6	California	Saltwater CMC, 1-hour average	Not specified	0.0900	214
7440-66-6	California	Saltwater CMC, 1-hour average	Not specified	0.0900	214, 216
7440-66-6	California	Marine instantaneous max	Not specified	0.2000	218
7440-66-6	Delaware	Marine Chronic Criterion	Not specified	0.0810	236
7440-66-6	Delaware	Marine Acute Criterion	Not specified	0.0900	236
7440-66-6	EPA NRWQC	Saltwater CCC Chronic	Not specified	0.0810	
7440-66-6	EPA NRWQC	Saltwater CMC Acute	Not specified	0.0900	
7440-66-6	EPA OSWER	Marine AWQC or EPA-derived FCV	Not specified	0.0810	
7440-66-6	EPA Region 3	BTAG – Marine	Not specified	0.0810	
7440-66-6	EPA Region 4	Chronic Marine	Not specified	0.0810	1, 2
7440-66-6	EPA Region 4	Acute Marine	Not specified	0.0900	1, 2
7440-66-6	EPA Region 6	Saltwater Chronic	Not specified	0.0842	21
7440-66-6	EPA Region 6	Saltwater Acute	Not specified	0.0927	21
7440-66-6	Florida	SWQS for Fish Consumption in Marine water	Not specified	0.0860	
7440-66-6	New Jersey	Marine Chronic	Not specified	0.0810	199, 200
7440-66-6	New Jersey	Marine Acute	Not specified	0.0900	199, 200

Benchmark Values for Zinc and Compounds in Surface Water (Marine)



3. CHEMICAL FOOTNOTES

1. Screening value is for filtered (dissolved) metals. A conversion factor (CF) was used to convert the screening value for total metals in surface water to a screening value for dissolved metals in surface water. $CMC (dissolved) = CMC (total) \times CF$.
2. The freshwater screening value is hardness dependent. The screening value shown is for dissolved metals assuming a hardness of 50 mg/L as CaCO₃. See [Table 1C for screening values for varying degrees of water hardness](#).
3. Freshwater criteria for pentachlorophenol are pH Dependent. Values displayed are for a pH of 7.8.
4. Criteria for ammonia are pH, temperature, and lifestage dependent.
5. Selenium concentrations in water do not reflect dietary sources to aquatic life and screening against these numbers may not be adequately protective.
6. pH of 6.5–9.0
7. Bioaccumulative chemical
8. Sum for the Toxic Unit Approach. (See Table 2c at [Region 4 Ecological Risk Assessment Supplemental Guidance](#))
9. Total value for Low Molecular Weight PAHs.
10. Total value for High Molecular Weight PAHs.
11. Subject to a narrative assessment. See [Region 4 Ecological Risk Assessment Supplemental Guidance](#).
12. For hardness–dependent metals, freshwater chronic criteria are based on soft water with a total hardness of 50 mg/L as CaCO₃. Soft water is common within Region 5; this water ESL may be recalculated when site specific water hardness is less than 50 mg/L.
13. Freshwater criteria for pentachlorophenol are pH Dependent. Values displayed are for a pH of 6.5.
14. The freshwater BTAG for Hydrazine depends on the hardness level. For hardness < 50, the BTAG is 5 ug/L. For hardness => 50, the BTAG is 10 ug/L.
15. Potential ecological risks associated with aluminum in soils are based on the measured soil pH. Where aluminum is a COC, it should only be retained for those soils with a pH less than 5.5. U.S. EPA. 2003. Ecological soil screening level for aluminum. Interim final. OSWER directive 9285.7–60. Washington.
16. Iron is not expected to be toxic to plants in well–aerated soils between pH 5 and 8. Importance is based less on its direct chemical toxicity than on its effect as a mediator in the geochemistry of other toxic metals and the physical hazard of depositing flocculent. EPA. 2003. Ecological soil screening levels for iron. Interim final. OSWER directive 9285.7–69. Washington.
17. When benchmarks represent the sum of individual compounds, isomers, or groups of congeners, and the chemical analysis indicates an undetected value, the proxy value specified at 30 TAC 350.51(n) shall be used for calculating the sum of the respective compounds, isomers, or congeners. This assumes that the particular COC has not been eliminated in accordance with the criteria at 350.71(k).
18. The low molecular weight PAH benchmark is to be compared to the sum of the concentrations of the following compounds: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, and 2–methyl naphthalene. The PAH benchmark is not the sum of the corresponding benchmarks listed for the individual compounds.
19. The high molecular weight PAH benchmark is to be compared to the sum of the concentrations of the following compounds: fluoranthene, pyrene, benz(a)anthracene, chrysene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3–cd)pyrene, benzo(g,h,i)perylene, and dibenzo(a,h)anthracene. The PAH benchmark is not the sum of the corresponding benchmarks listed for the individual compounds.
20. Total PAH refers to the sum of the concentrations of each of low and high molecular weight PAHs listed above and any other PAH compounds that are not eliminated in accordance with 30 TAC 350.71(k). The benchmarks for total PAHs are the most relevant in evaluating risk in an ERA, as PAHs almost always occur as mixtures. Values for individual, low molecular weight, and high molecular weight PAHs are included as guidelines to aid in the determination of disproportionate concentrations within the mixture that may be masked by the total.
21. Indicates that the benchmarks are for the dissolved portion in water.
22. Value was reported as greater than the listed number.

23. Value was reported as less than the listed number.
24. These values are estimates. Methods of estimation are described in [Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision](#).
25. A range of 0.8 to 4.0 ug/L was reported.
26. The chronic NAWQC for mercury (0.012 $\mu\text{g/L}$) is based on the final residue value. FCVs are used as benchmarks to protect aquatic life.
27. The chronic NAWQC for DDT (0.001 $\mu\text{g/L}$), total PCBs (0.014 $\mu\text{g/L}$), and heptachlor (0.0038 $\mu\text{g/l}$) are based on the final residue values; for benchmarks to protect aquatic life, we use SCVs.
28. Units are in mg/Kg dry weight.
29. These values are estimates. Methods of estimation are described in the [reference](#).
30. Study LC50s were used rather than species mean LC50s, so water hardness would correspond to EC20 values.
31. Benchmarks are based on tests that are not standard but are judged to be of high quality.
32. The value's sediment quality assessment guidelines (SQAGs) are within a factor of three of the probable effects level (PEL).
33. These values have a presumed maximum TOC of 10% (0.1) applied to the values from the source for use in comparing to bulk sediment data. If the TOC in measured data is less than 10%, adjust values accordingly.
34. These values have a presumed TOC of 1% (0.01) applied to the values from the source for use in comparing to bulk sediment data.
35. See Methylmercury.
36. Consult the 2010 Polycyclic Aromatic Hydrocarbons factsheet or the 2010 PAH Scientific Supporting Document for guidance.
37. Surface Coarse 0.082 mg/kg. Surface Fine 0.018 mg/kg. Subsoil Coarse 0.082 mg/kg. Subsoil Fine 0.018 mg/kg.
38. Coarse Soil Guideline 4.6 mg/kg. Fine Soil Guideline 5.6 mg/kg. Coarse Soil Human health soil quality guideline 4.6 mg/kg. Fine Soil Human health soil quality guideline 4.6 mg/kg. Coarse Soil Environmental soil quality guideline 7.7 mg/kg. Fine Soil Environmental soil quality guideline 190 mg/kg.
39. SQGF Coarse 0.49 mg/kg. SQGF Fine 6.5 mg/kg.
40. Surface Coarse 0.37 mg/kg. Surface Fine 0.08 mg/kg. Subsoil Coarse 0.37 mg/kg. Subsoil Fine 0.08 mg/kg.
41. Surface Coarse 11 mg/kg. Surface Fine 2.4 mg/kg. Subsoil Coarse 11 mg/kg. Subsoil Fine 2.4 mg/kg.
42. 10–5 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–5 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–5 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–5 Incremental Risk – Subsoil Fine 0.0068 mg/kg. 10–6 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–6 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–6 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–6 Incremental Risk – Subsoil Fine 0.0068 mg/kg.
43. SQGF Coarse 6.5 mg/kg. SQGF Fine 21 mg/kg.
44. 10–5 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–5 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–5 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–5 Incremental Risk – Subsoil Fine 0.0068 mg/kg. 10–6 Incremental Risk – Surface Coarse 0.0095 mg/kg. 10–6 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–6 Incremental Risk – Subsoil Coarse 0.011 mg/kg. 10–6 Incremental Risk – Subsoil Fine 0.0068 mg/kg.
45. This value was derived using TEFs. See the fact sheet for supporting documentation.
46. 500 $\mu\text{g/L}$ for blackberries; 500–1000 $\mu\text{g/L}$ for peaches, cherries, plums, grapes, cowpeas, onions, garlic, sweet potatoes, wheat barley, sunflowers, mung beans, sesame, lupins, strawberries, Jerusalem artichokes, kidney beans, and lima beans; 1000–2000 $\mu\text{g/L}$ for red peppers, peas, carrots, radishes, potatoes, and cucumbers; 2000–4000 $\mu\text{g/L}$ for lettuce, cabbage, celery, turnips, Kentucky bluegrass, oats, corn, artichokes, tobacco, mustard, clover, squash, and muskmelons; 4000–6000 $\mu\text{g/L}$ for sorghum, tomatoes, alfalfa, purple vetch, parsley, red beets, and sugar beets; 6000 $\mu\text{g/L}$ for asparagus.
47. Foliar: 100–178 mg/L for almond apricots and plums; 178–355 mg/L for grapes, peppers, potatoes and tomatoes; 355–710 mg/L for alfalfa, barley, corn, and cucumbers; >710 mg/L for cauliflower, cotton, safflower, sesame, sorghum, sugar beets, and sunflowers. Rootstocks: 180–600 mg/L for stone fruit (peaches, plums, etc.); 710–900 mg/L for grapes. Cultivars: 110–180 mg/L for strawberries, 230–460 mg/L for grapes, 250 mg/L for boysenberries, blackberries, and raspberries.

48. 200 µg/L for cereals, 1000 µg/L for tolerant crops.
49. The concentration should not exceed 10 µg/L for continuous use on all soils or 50 µg/L for short-term use on acidic soils.
50. 20 µg/L for continuous use on all soils, 50 µg/L for intermittent use on all soils.
51. 500 mg/L for strawberries, raspberries, beans, and carrots. 500–800 mg/L for boysenberries, currants, blackberries, gooseberries, plums, grapes, apricots, peaches, pears, cherries, apples, onions, parsnips, radishes, peas, pumpkins, lettuce, peppers, muskmelons, sweet potatoes, sweet corn, potatoes, celery, cabbage, kohlrabi, cauliflower, cowpeas, broad beans, flax, sunflowers, and corn. 800–1500 mg/L for spinach, cantaloupe, cucumbers, tomatoes, squash, brussels, sprouts, broccoli, turnips, smooth brome, alfalfa, big trefoil, beardless wildrye, vetch, timothy, and crested wheat grass. 1500–2500 mg/L for beets, zucchini, rape, sorghum, oat hay, wheat hay, mountain brome, tall fescue, sweet clover, reed canary grass, birdsfoot trefoil, perennial ryegrass. 3500 mg/L for asparagus, soybeans, safflower, oats, rye, wheat, sugar beets, barley, barley hay, and tall wheat grass.
52. 1000 µg/L when soil pH < 6.5. 5000 µg/L when soil pH > 6.5.
53. 500 µg/L for sheep, 1000 µg/L for cattle, 5000 µg/L for swine and poultry.
54. The maximum concentration in livestock drinking water should not exceed 2000 µg/L, or 1000 µg/L in cases where the feed of animals contains fluoride.
55. The short-term benchmark concentration of 1.0 µg·L⁻¹ is for waters of 50 mg CaCO₃·L⁻¹ hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO₃): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L. At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation: Short-term benchmark (µg/L) = 10^{1/1.016(log[hardness]) - 1.71}. At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
56. Benchmark = exp(0.878[ln(hardness)] + 4.76), where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO₃ equivalents in mg/L.
57. 5 µg/L if pH < 6.5. 100 µg/L if pH ≥ 6.5.
58. The CWQG for cadmium (i.e., long-term guideline) of 0.09 µg·L⁻¹ is for waters of 50 mg CaCO₃·L⁻¹ hardness. The CWQG for cadmium is related to water hardness (as CaCO₃): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L. At hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation: CWQG (µg/L) = 10^{1/0.83(log[hardness]) - 2.46}. At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
59. The CWQG for copper is related to water hardness (as CaCO₃): When the water hardness is 0 to < 82 mg/L, the CWQG is 2 µg/L. At hardness ≥ 82 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = 0.2 * e^{1/0.8545[ln(hardness)] - 1.465}. At hardness > 180 mg/L, the CWQG is 4 µg/L. If the hardness is unknown, the CWQG is 2 µg/L.
60. The CWQG for lead is related to water hardness (as CaCO₃): When the hardness is 0 to ≤ 60 mg/L, the CWQG is 1 µg/L. At hardness > 60 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = e^{1/1.273[ln(hardness)] - 4.705}. At hardness > 180 mg/L, the CWQG is 7 µg/L. If the hardness is unknown, the CWQG is 1 µg/L.
61. The CWQG for manganese (i.e., long-term guideline) is found using the CWQG calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese.
62. The CWQG for nickel is related to water hardness (as CaCO₃): When the water hardness is 0 to ≤ 60 mg/L, the CWQG is 25 µg/L. At hardness > 60 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = e^{1/0.76[ln(hardness)] + 1.06}. At hardness > 180 mg/L, the CWQG is 150 µg/L. If the hardness is unknown, the CWQG is 25 µg/L.
63. Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines (does not provide guidance on other freshwater nutrients). It provides Trigger Ranges for Total Phosphorus (µg/L) (see Guidance Framework for Phosphorus factsheet): ultra-oligotrophic <4, oligotrophic 4–10, mesotrophic 10–20, meso-eutrophic 20–35, eutrophic 35–100, hyper-eutrophic >100.
64. The long-term CWQG is for dissolved zinc and is calculated using the following equation: CWQG = exp(0.947[ln(hardness mg·L⁻¹)] - 0.815[pH] + 0.398[ln(DOC mg·L⁻¹)] + 4.625). The short-term benchmark is for dissolved zinc and is calculated using the following equation: Benchmark = exp(0.833[ln(hardness mg·L⁻¹)] + 0.240[ln(DOC mg·L⁻¹)] + 0.526).
65. Supporting documents are available from the [Canadian Council of Ministers of the Environment](#).
66. The listed values are dry weight.

67. This is a reactive species.
68. Guideline is crop-specific: Cereals and hay value is 46 ug/L and Legumes value is 93 ug/L, per the British Columbia data catalog.
69. Active ingredient WQG is 490 ug/L per the British Columbia data catalog.
70. Guideline is crop-specific. The value listed of 0.071 ug/L applies to crops other than cereals, hay, and pastures (e.g., tomato). The value of 3.3 ug/L applies to cereals, hay, and pastures per the British Columbia data catalog.
71. The contents of the measured substances are lower than the Intervention Value for soil, not being the bed or bank of a surface water body, and for organic substances: msPAF < 20%
72. The contents of the measured substances are lower than the Intervention Value for soil, not being the bed or bank of a surface water body, and for metals: msPAF < 50%, with a maximum content for cadmium.
73. This values is a so-called 'Indicative Level'. No reliable Intervention Value could be derived. Indicative Levels are based on the same principles as Intervention Values but have a lower status.
74. This is organic mercury.
75. The three types of dihydroxybenzenes are catechol, resorcinol, and hydroquinone.
76. This chemical was given a value 50 mg/kg for falling under the monochloroanilines category.
77. This chemical was given a value of 50 mg/kg for falling under the dichloroanilines category.
78. This chemical was given a value of 10 mg/kg for falling under the trichloroanilines category.
79. This chemical was given a value of 30 mg/kg for falling under the tetrachloroanilines category.
80. This chemical was given a value of 10 mg/kg for falling under the pentachloroanilines category.
81. The listed value is valid when Aluminum's pH is greater than 6.5. If the pH is less than 6.5, then it has an unknown LOSP value of 0.0008 mg/kg.
82. The Marine Water value was blank from the source, but the Freshwater value is presented as a reference. For other chemical benchmarks from this source, the Freshwater value is often recommended as a cautionary substitute for Marine Waters.
83. The toxicant reliability of these values is unknown.
84. The toxicant reliability of these values is very low.
85. The toxicant reliability of these values is very high.
86. The toxicant reliability of these values is high.
87. The toxicant reliability of these values is low.
88. The toxicant reliability of these values is moderate.
89. Recommended for application for slightly to moderately disturbed ecosystems. If the LOSP 99 is recommended, it is due to the bioaccumulating nature of the toxicant. This application protects key species from acute and chronic toxicity.
90. Recommended for application for slightly to moderately disturbed ecosystems (to protect key species from chronic toxicity). However, this DGV may still not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species).
91. DGV may be below routine limits of reporting for most commercial laboratories, although some laboratories may be able to achieve lower limits of reporting.
92. DGV may not protect key test species from acute (and chronic) toxicity.
93. Recommended for application for slightly to moderately disturbed ecosystems. Although bioaccumulation may be an issue, rapid depuration of this chemical represents a mitigating factor, and the 95% species protection DGV should provide sufficient protection for slightly-moderately disturbed systems. If local data suggest that bioaccumulation is an issue at the specific site, the 99% protection level may be more appropriate.
94. DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species).
95. This value was derived from an acute toxicity dataset comprising 23 species from three taxonomic groups (but which did not include plants). As diuron is a herbicide, the value should be treated with additional caution.
96. This DGV is derived from mesocosm NOEC data. This is the only DGV available for this toxicant.

97. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. To account for the bioaccumulating nature of this toxicant, it is recommended to apply the species protection level DGV that is one level above that which would normally be applied (e.g., if 95% level of species protection would normally be applied, then the 99% DGV should be used).
98. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV. To account for the bioaccumulating nature of this toxicant, it is recommended to apply the species protection level DGV one level above that which would normally be applied (e.g., if 95% level of species protection would normally be applied, then the 99% DGV should be used). Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV.
99. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV.
100. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV. These DGVs and the information in the corresponding DGVs technical brief for this toxicant should be used in accordance with the detailed guidance provided on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality website.
101. Bioaccumulation and secondary poisoning effects should be considered for this toxicant.
102. Ammonia as total ammonia nitrogen, measured as $[\text{NH}_3\text{--N}]$ at pH 8.
103. The DGVs apply to dissolved boron and are based on data from toxicity tests conducted for a pH range of 6.8–10 and hardness range of 9.3–250 mg CaCO_3/L . They supersede the ANZECC/ARMCANZ (2000) trigger values for boron in freshwater.
104. Adjust DGVs for site-specific hardness using the hardness-dependent algorithm in Warne et al. (2018).
105. Chlorine as total chlorine, measured as $[\text{Cl}]$.
106. The copper DGVs should not be adjusted for water hardness (see Warne et al. 2018).
107. Cyanide as un-ionized HCN, measured as $[\text{CN}]$.
108. The DGVs are expressed in terms of the active ingredient (glyphosate) and do not relate to any of the breakdown products of glyphosate. They supersede the ANZECC/ARMCANZ (2000) trigger values for glyphosate in freshwater. Commercial formulations containing glyphosate can be more toxic than glyphosate alone. The Guidelines provide guidance on how to account for formulations (Also see Warne et al. 2018).
109. Sulfide as un-ionized H_2S , measured as $[\text{S}]$.
110. The DGVs relate to metolachlor only and not any of its breakdown products.
111. The DGVs are expressed in terms of the active ingredient (metsulfuron-methyl) and do not relate to any of the breakdown products of metsulfuron-methyl. They supersede the ANZECC/ARMCANZ (2000) trigger values for metsulfuron in freshwater. These DGVs and the information in the corresponding DGVs technical brief for this toxicant should be used in accordance with the detailed guidance provided on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality website, including guidance on what to do if DGVs are below analytical detection limits.
112. The value listed as the saltwater CMC represents a benchmark value, not a criterion. Data limitations precluded the development of a CCC in saltwater.
113. The listed value of 0.752 mg/L is at a pH level of 6.5 with a temperature of 20°C. For information on other temperatures and pH levels, refer to Table 3 [here](#).
114. The listed value of 0.000038 mg/L is a lower-bound short-term maximum for varying water hardness and an upperbound maximum of 2.80 $\mu\text{g}/\text{L}$.
115. This value is a result of a pH level of 6.7 and 10°C. For information on other temperatures and pH levels, refer to Table 3 [here](#).
116. The listed value of 0.4 mg/L is a maximum, where the water hardness is 10 mg/L; otherwise, use the equation: $\text{LC50 fluoride} = -51.73 + 92.57 \log_{10}(\text{Hardness})$ and multiply by 0.01.
117. Dissolved Pb $\text{WQG} = \exp(0.514 [\ln(\text{DOC})] + 0.214 [\ln(\text{hardness})] + 0.4354)$
118. The listed value of 0.06 mg/L is for a chloride concentration of less than 2; 0.12 mg/L with a chloride concentration of 2–4; 0.18 mg/L with a chloride concentration of 4–6; 0.24 mg/L of a chloride concentration of

- 6–8; 0.3 mg/L with a chloride concentration of 8–10; and 0.6 mg/L with a chloride concentration greater than 10.
119. Instantaneous maximum calculated from: less than or equal to $0.01102 \text{ hardness} + 0.54$.
 120. The listed value of 0.003 mg/L is for use under non-phototoxic conditions. For use under phototoxic conditions, the value 0.00005 mg/L should be used.
 121. $WQG = [e^{[0.645 \cdot \ln(DOC)] + [2.255 \cdot \ln(hardness)] + [1.995 \cdot pH] + [-0.284 \cdot (\ln(hardness) \cdot pH)] - 9.898}] / 3$ (e.g., for a water with the following chemistry (pH = 7.5, DOC = 0.5 mg/L, hardness = 50 mg/L) the AWQG is 55 $\mu\text{g Al/L}$ (total Al).
 122. The listed value of 1.22 mg/L is at a pH level of 6.5 with a temperature of 20°C. For information on other temperatures and pH levels, refer to Table 27C [here](#).
 123. The listed value of 0.004 mg/L is for use under non-phototoxic conditions. For use under phototoxic conditions, the value 0.0001 mg/L should be used.
 124. The listed value of 0.0001 mg/L should be used under both non-phototoxic and phototoxic conditions.
 125. The listed value of 0.0000176 mg/L is a lower-bound long-term average for varying water hardness and an upperbound average of 0.457 $\mu\text{g/L}$.
 126. Average of five weekly measurements taken over a 30-day period. Calculated from: less than or equal to $0.0044 \text{ hardness} + 0.605$.
 127. When MeHg = 0.5% of THg, the listed value of 0.00002 mg/L should be used. When MeHg = 1.0% of THg, the value of 0.01 $\mu\text{g/L}$ should be used. When MeHg 8.0% of THg, the value of 0.00125 $\mu\text{g/L}$ should be used.
 128. The listed value of 0.02 mg/L is for a chloride concentration of less than 2; 0.04 mg/L for a chloride concentration of 2–4; 0.06 mg/L for a chloride concentration of 4–6; 0.08 mg/L for a chloride concentration of 6–8; 0.10 mg/L for a chloride concentration of 8–10; and 0.20 mg/L for a chloride concentration of more than 10.
 129. Guideline is for lakes where salmonids are the predominant fish species. Total phosphorus in lakes is either the spring overturn concentration, if the residence time of the epilimnetic water exceeds 6 months, or the mean epilimnetic growing season concentration, if residence time of epilimnetic water is below 6 months.
 130. The listed value of 0.00002 mg/L is for use under phototoxic conditions.
 131. The listed value of 0.00005 mg/L is for use when hardness is less than or equal to 100 mg/L. If hardness is greater than 100 mg/L, then use the value of 1.5 $\mu\text{g/L}$.
 132. Sulfate is dependent on water hardness (mg/L). The listed value of 128 is for a water hardness of very soft (0–30). 218 is for soft to moderately soft water hardness (31–75). 309 is for moderately soft/hard to hard water hardness (76–180). 429 is for very hard water hardness (181–250). For anything greater than 250, it needs to be determined based on site water.
 133. The long-term chronic WQC = $[\exp(0.947[\ln(hardness)] - 0.815[pH] + 0.398[\ln(DOC)] + 4.625)] / 2$. The short-term acute WQC = $[\exp(0.833[\ln(hardness)] + 0.240[\ln(DOC)] + 0.526)] / 2$.
 134. Sediment containing 1% organic carbon.
 135. The listed value of 11 mg/kg applies to fish egg/ovary. A value of 4 mg/kg applies to fish muscle/muscle plug, fish, whole-body, and invertebrate tissue (dietary). This is Aquatic Life– Freshwater Long-term Chronic.
 136. Duration < 2 hours within 24 hour period.
 137. Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
 138. Applies to all soil types.
 139. The listed value of 0.2 mg/L is for all soil types except neutral and alkaline. 400 $\mu\text{g/L}$ should be used for neutral and alkaline fine textured soils.
 140. The listed value is only for forage crops.
 141. The listed value of 2 mg/L is for moderately sensitive crops (red pepper, pea, carrot, radish, potato, cucumber). 4 mg/L is for moderately tolerant crops (lettuce, cabbage, celery, turnip, Kentucky bluegrass, oat, corn, artichoke, tobacco, mustard, clover, squash, muskmelon). 1 mg/L is for sensitive crops (peach, cherry, plum, grape, cowpea, onion, garlic, sweet potato, wheat, barley, sunflower, mung bean, sesame, lupin, strawberry, Jerusalem artichoke, kidney bean, lima bean). 6 mg/L is for tolerant crops (sorghum, tomato, alfalfa, purple vetch, parsley, red beet, sugar beet). 0.5 mg/L is for very sensitive crops (black- berry). 15 mg/L is for very tolerant crops (asparagus).

142. This value is for non–forage crops. A value of 0.01 mg/L is for forage crops grown in poorly drained soils, and a value of 0.02 mg/L is for forage crops grown in well drained soil.
143. The guideline for Zinc is dependent upon the pH of the soil, not the irrigation water. For Soil pH<6, the WQC is 1 mg/L. For soil pH greater than or equal to 6 and < 7, the WQC is 2. For soil pH greater then or equal to 7, the WQC is 5.
144. The listed value of 4 mg/L is for all livestock except long lived animals, such as dairy cows and breeding stock fed normal diets. A value of 2 mg/L is for all livestock fed high fluoride diets including mineral or bone meal and feed additives. A value of 1.5 mg/L is for dairy cows, breeding stock, and long–lived animals.
145. For livestock consuming forages not irrigated or if no molybdenum containing fertilizers are applied to grow the feed consumed by livestock, a value of 0.08 mg/L should be used.
146. When nitrate and nitrite are present, total nitrate plus nitrite–nitrogen should not exceed the nitrate WQC.
147. The listed value of 1 mg/L is for dairy cows, breeding stock, and long–lived animals and all animals fed high fluoride diets including mineral or bone meal and feed additives. 2 mg/L is for all livestock except for long lived animals, such as dairy cows and breeding stock fed normal diets.
148. Guideline applies to fish or shellfish consumed by wildlife.
149. The listed value of 6 mg/kg applies to bird eggs.
150. Resin acids are pH dependent. The listed value of 0.009 mg/L is valid between pH > 6.0 and <= 6.5. A value of 1 ug/L is valid at a pH of 5.0. A value of 3 ug/L is valid between a pH > 5.0 and <= 5.5. A value of 4 ug/L is valid between a pH > 5.5 and <=6.0. A value of 25 ug/L is valid between a pH > 6.5 and <= 7.0. A value of 45 ug/L is valid between a pH > 7.0 and <= 7.5. A value of 52 ug/L is valid between a pH > 7.5 and <= 8.0. A value of 60 ug/L is valid between a pH > 8.0 and <= 8.5. A value of 62 ug/L is valid between a pH > 8.5 and <= 9.0. Any pH less an 5.0 a site assessment may be necessary.
151. Dehydroabietic acid (DHA) is pH dependent. The listed value of 0.004 mg/L is valid between pH > 6.0 and <= 6.5. A value of 1 ug/L is valid at a pH of 5.0. A value of 2 ug/L is valid between a pH > 5.0 and <= 5.5. A value of 2 ug/L is valid between a pH > 5.5 and <=6.0. A value of 8 ug/L is valid between a pH > 6.5 and <= 7.0. A value of 12 ug/L is valid between a pH > 7.0 and <= 7.5. A value of 13 ug/L is valid between a pH > 7.5 and <= 8.0. A value of 14 ug/L is valid between a pH > 8.0 and <= 8.5. A value of 14 ug/L is valid between a pH > 8.5 and <= 9.0. Any pH less an 5.0 a site assessment may be necessary.
152. The benchmark can be greater than or equal to this value.
153. The value listed of 0.0011 mg/kg is the sum of compounds Aldrin and Dieldrin.
154. The value listed of 0.0052 mg/kg is the sum of compounds Heptachlor and Heptachlor epoxide.
155. The value listed of 0.021 mg/kg is the sum of Hexachlorocyclohexanes isomers.
156. The value listed of 0.25 mg/kg is the sum of Trichlorobenzenes isomers.
157. Hardness–dependent ambient water quality criterion (100 mg/L as CaCO₃ used).
158. Value is for total of all chemical forms.
159. pH–dependent ambient water quality criterion (7.8 pH used).
160. These lowest effect levels are based on 10% of the screening level concentration instead of the default value of 5%.
161. These severe effect levels are based on 90% of the screening level concentration instead of the default value of the 95%.
162. Values are tentative guidelines.
163. Aluminum is pH dependent.
164. There is a duplicate row with higher values in the source.
165. Values are the same for Arsenic dissolved and Arsenic total recoverable.
166. Mercury dissolved value is listed. Total Recoverable value is 0.0034 mg/L.
167. The value listed is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), Modified Warm Water Habitat (MWH), Cold Water Habitat (CWH), and Limited Resource Water (LRW). For Seasonal Salmonid Habitat (SSH), no chlorine is to be discharged.
168. Mercury dissolved value is listed. Total Recoverable value is 0.0017 mg/L.
169. The value listed is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), Modified Warm Water Habitat (MWH), and Cold Water Habitat (CWH). For Seasonal Salmonid Habitat (SSH), no chlorine is to be discharged.

170. Mercury dissolved value is listed. Total Recoverable value is 0.00091 mg/L. Lake Erie Basin Total Recoverable value is 0.0000013 mg/L.
171. Selenium dissolved value is listed. Total Recoverable value is 0.005 mg/L.
172. The listed value is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), and Modified Warm Water Habitat (MWH).
173. The listed value is for Seasonal Salmonid Habitat (SSH) and Cold Water Habitat (CWH).
174. Ammonia's value is pH dependent. For Warm Water Habitat (WWH), Modified Warm Water Habitat (MWH), and Limited Resource Habitat (LRW), pH ranges between 6.5 – 7.7 with a temperature between 0C and 26C the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–2. Link to the tables is [here](#).
175. For Exceptional Warm Water Habitats (EWH) with a pH range of 6.5 – 7.4 and a temperature between 0C and 25C, the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–3. Link to the tables is [here](#).
176. For Cold Water Habitat (CWH) and Seasonal Salmonid Habitat (SSH) with a pH range of 6.5 – 7.4 and a temperature between 0C and 20C, the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–4. Link to the tables is [here](#).
177. Pentachlorophenol is pH dependent. The listed value of 0.011 mg/L is for a pH level of 7.5. For other pH levels, refer to Table 35–10. Link to the tables is [here](#).
178. Cadmium is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9. Link to the tables is [here](#).
179. Chromium is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
180. In addition, any whole sample of any representative aquatic organisms shall not exceed 0.64 mg/kg (wet weight).
181. Ammonia's value is pH dependent. For Warm Water Habitat (WWH) with pH ranges between 6.5 – 7.7 with a temperature between 10C and 14C, and during the months of March to November the value of 2.3 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–5. Link to the tables is [here](#).
182. Ammonia's value is pH dependent. For Exceptional Warm Water Habitats (EWH) with pH ranges between 6.5 – 7.7, a temperature between 10C and 13C, and during the months of March to November, the value of 2.2 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–6. Link to the tables is [here](#).
183. Ammonia's value is pH dependent. For Modified Warm Water Habitat (MWH) with pH ranges between 6.5 – 7.7, a temperature between 10C and 13C, and during the months of March to November, the value of 3.4 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–7. Link to the tables is [here](#).
184. Ammonia's value is pH dependent. For Cold Water Habitat (CWH) with pH ranges between 6.5 – 7.7 with a temperature between 8C and 13C, a value of 2.2 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–8. Link to the tables is [here](#).
185. Copper is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
186. Lead is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
187. Nickel is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
188. Zinc is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
189. This criterion applies to the sum of DDT and metabolites.
190. The form of the chemical is dissolved.
191. The form of the chemical is total recoverable.
192. The form of the chemical is total.
193. The form of the chemical is total residual.
194. The form of the Cyanide is free.

195. Values enclosed by "()" were not calculated according to the regulations, due to limited data. These values should only be used for advisory purposes, such as establishing "reasonable potential".
196. Values enclosed by "[]" are national criteria and should be used for advisory purposes only.
197. Values are estimates.
198. Values are pH based.
199. Criterion is expressed as a function of the Water Effect Ratio (WER). For criterion in the table, WER equates to the default value of 1.0.
200. Dissolved criterion.
201. Criteria expressed as free cyanide (as CN)/L.
202. The value listed is calculated with an assumed hardness level of 100. To calculate additional hardness values, use the formulas provided in the document on page 34.
203. Westhollow Technical Center Levels were developed by Shell Oil for surface water and were approved for use by NJDEP with the following conditions: 1) the source area is removed, 2) these levels are on the fringe of the contamination area, and 3) active remediation is occurring. These levels are applicable to surface water and wetland areas.
204. The value listed is calculated with an assumed pH of 6.8 and temperature of 20C. For other values regarding various temperatures and pH levels, use the formulas provided in the document on page 33.
205. This value is for the total of Heptachlor/Heptachlor epoxide.
206. The benzene hexachloride (BHC) value applies to all stereoisomers of 1,2,3,4,5,6-hexachlorocyclohexane.
207. This value applies to all chlorinated dibenzofurans.
208. This value applies to all chlorinated dibenzo-p-dioxins.
209. Criteria for these metals are measured as total recoverable metal. However, they may be applied as dissolved metals when, as part of a permit application, a dissolved metals translator has been established according to the procedures described in the document, "Guidance for Establishing a Metal Translator", Florida Department of Environmental Protection, December 17, 2001.
210. In the absence of concentration data specific for the III and VI valence states of chromium, total chromium concentrations in surface water should be compared to the criteria for Chromium (hexavalent).
211. These values were derived assuming soil pH 6.8. These leachability values are dependent upon both the metal concentration in soil and soil characteristics. Thus, if site-specific soil characteristics are different than the defaults, these leachability values may not apply. If this is the case, site-specific leachability values should be derived using methods such as TCLP or SPLP.
212. Phytotoxicity must be considered.
213. Unless concentrations for both chromium III and VI are known, total chromium concentrations should be compared with direct exposure SCTLs for chromium VI.
214. Expressed as dissolved.
215. Expressed as total recoverable.
216. Criteria do not apply to waters subject to water quality objectives in Tables III-2A and III-2B of the San Francisco Bay Regional Water Quality Control Board's 1986 Basin Plan.
217. Criterion most appropriately applied to the sum of alpha-Endosulfan and beta-Endosulfan.
218. For nonchlorinated phenolic compounds.
219. For chlorinated phenolic compounds.
220. For benzene hexachloride isomers.
221. Value developed for chromium (VI); may be applied to total chromium if valence is unknown.
222. For the sum of alpha-Endosulfan, beta-Endosulfan, and Endosulfan sulfate.
223. Expressed as nitrogen.
224. For total chlorine residual.
225. For dissolved chloride associated with sodium; criterion probably will not be adequately protective when chloride is associated with potassium, calcium, or magnesium rather than sodium.
226. Expressed as free cyanide (as CN).
227. For pH between 6.5 and 9.0. Use of Water-Effects Ratios might be appropriate because: (1) aluminum is less toxic at higher pH and hardness but relationship not well quantified; (2) aluminum associated with clay

- particles may be less toxic than that associated with aluminum hydroxide particles; and (3) many high quality waters in U.S. exceed 87 ug/L as total or dissolved.
228. Applies to DDT and its metabolites (i.e., the total concentration of DDT and its metabolites should not exceed this value).
 229. Interim.
 230. This value is for ruminant livestock. For non-ruminants, use 0.284
 231. See the Ecological Soil Screening Level for Aluminum, Interim Final, OSWER Directive 9285.7-60, available [here](#)
 232. See the Ecological Soil Screening Level for Iron, Interim Final, OSWER Directive 9285.7-69, available [here](#)
 233. The chronic freshwater-based and chronic tissue-based criteria are independently applicable and no one criterion takes primacy. The value here is for water. Other values are as follows: 0.000028 mg/kg wet weight for invertebrate whole-body tissue; 0.000201 mg/kg wet weight for fish whole-body tissue; and 0.000087 mg/kg wet weight for fish muscle tissue.
 234. The chronic freshwater-based and chronic tissue-based criteria are independently applicable and no one criterion takes primacy. The value here is for water. Other values are as follows: 0.00108 mg/kg wet weight for invertebrate whole-body tissue; 0.00649 mg/kg wet weight for fish whole-body tissue; and 0.000133 mg/kg wet weight for fish muscle tissue.
 235. pH 6.5-9.0
 236. Criteria is for total dissolved form.
 237. Freshwater criteria calculated using the EPA Biotic Ligand Model.
 238. Cyanide measured as free cyanide at the lowest pH occurring in the receiving water or cyanide amenable to chlorination.
 239. The one-hour average concentration of total ammonia nitrogen (in mg TAN/L) is not to exceed, more than once every three years on the average, the CMC (acute criterion magnitude) calculated using the following equation: $CMC = \text{MIN}((0.275/(1+10^{(7.204-pH)})) + (39/(1+10^{(pH-7.204)}))), (0.7249*((0.0114/(1+10^{(7.204-pH)}) + (1.6181/(1+10^{(pH-7.204)})) * (23.12*10^{(0.036*(20-t))}))),$ where pH = pH of interest, t = temperature degrees Celsius.
 240. The thirty-day rolling average concentration of total ammonia nitrogen (in mg TAN/L) is not to exceed, more than once every three years on the average, the chronic criterion magnitude (CCC) calculated using the following equation: $CCC = 0.8876*((0.0278/(1+10^{(7.688-pH)})) + (1.1994/(1+10^{(pH-7.688)}))) * (2.126*10^{(0.028*(20-MAX(T \text{ where } pH = \text{pH of interest, } t = \text{temperature degrees Celsius. In addition, the highest 4-day average within the 30-day averaging period should not be more than 2.5 times the CCC more than once in 3 years on average.}$
 241. Value = $\text{EXP}^{(0.9789*\text{LN}(\text{hardness})-3.866)*(1.136672-((\text{LN}(\text{hardness})*(0.041838))))}$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 242. Value = $\text{EXP}^{(0.7977*\text{LN}(\text{hardness})-3.909)*(1.101672-((\text{LN}(\text{hardness})*(0.041838))))}$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 243. Value = $0.316*\text{EXP}(0.819*\text{LN}(\text{hardness})+3.7256)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 244. Value = $0.86*\text{EXP}(0.819*\text{LN}(\text{hardness})+0.6848)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 245. Value = $(1.46203-\text{LN}(\text{hardness})*0.145712)* \text{EXP}(1.273*\text{LN}(\text{hardness})-1.460)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 246. Value = $(1.46203-\text{LN}(\text{hardness})*0.145712)* \text{EXP}(1.273*\text{LN}(\text{hardness})-4.705)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 247. Value = $0.998*\text{EXP}(0.8460*\text{LN}(\text{hardness})+2.255)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 248. Value = $0.997*\text{EXP}(0.8460*\text{LN}(\text{hardness})+0.0584)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 249. Value = $\text{EXP}(1.005*\text{pH}-4.869)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 250. Value = $\text{EXP}(1.005*\text{pH}-5.134)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
 251. Value = $0.85*\text{EXP}(1.72*\text{LN}(\text{hardness})-6.59)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.

