

Appendices

Appendix 1. Concentrations of organic chemicals and pharmaceutical compounds in four wastewater samples collected from the Green Point, Camps Bay and Hout Bay wastewater works in 2016.

Compounds	Unit	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16
		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
Volatile Organic Hydrocarbons													
Benzene	µg.l ⁻¹	0.23	<0.10	0.36	<0.10	0.21	0.22	<0.10	<0.10	0.18	<0.10	<0.10	<0.10
Ethylbenzene	µg.l ⁻¹	0.38	0.53	0.92	0.9	0.43	1.40	0.38	2.70	0.20	0.48	0.18	0.31
Toluene	µg.l ⁻¹	2.60	2.00	4.00	3.20	4.50	9.20	4.00	9.60	2.00	2.90	1.40	2.10
o-Xylene	µg.l ⁻¹	1.80	0.76	1.60	4.00	0.78	2.9	0.68	4.8	0.35	0.54	0.22	0.43
m'p-Xylene	µg.l ⁻¹	1.50	0.89	2.80	3.50	1.10	4.40	1.10	11.00	0.61	1.1	0.43	0.84
Styrene	µg.l ⁻¹	<0.10	0.34	<0.10	<0.10	2.3	<0.10	0.54	<0.10	<0.10	0.34	<0.10	0.39
1,2,4-Trimethylbenzene	µg.l ⁻¹	15.00	5.60	2.60	22.00	1.80	5.5	1.00	3.30	0.73	0.92	0.92	0.51
1,3,5-Trimethylbenzene	µg.l ⁻¹	3.20	1.30	0.70	5.60	0.49	1.50	0.31	0.76	0.24	0.22	0.34	<0.10
n-Propylbenzene	µg.l ⁻¹	0.89	0.43	0.28	1.70	0.26	0.69	<0.10	0.43	0.11	<0.10	<0.10	<0.10
Isopropylbenzene	µg.l ⁻¹	0.19	<0.10	<0.10	0.38	0.1	0.21	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
n-Butylbenzene	µg.l ⁻¹	0.19	<0.10	<0.10	0.31	<0.10	<0.10	<0.10	0.35	<0.10	<0.10	<0.10	<0.10
sec-Butylbenzene	µg.l ⁻¹	0.19	<0.10	<0.10	0.23	<0.10	0.18	<0.10	0.34	<0.10	0.11	<0.10	<0.10
tert-Butylbenzene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
p-Cymene	µg.l ⁻¹	1.40	0.97	0.61	0.90	1.40	2.00	0.54	1.30	0.88	0.60	0.40	0.42
Phenols													
Phenol	µg.l ⁻¹	100	98	260	63	170	87	120	320	22	110	210	270
o-Cresol	µg.l ⁻¹	0.33	0.32	0.45	0.30	<0.30	0.41	0.32	0.32	0.67	0.36	0.49	0.44
m-Cresol	µg.l ⁻¹	13.0	1.90	2.20	0.30	0.65	1.00	0.97	0.90	0.99	1.50	0.75	0.69
p-Cresol	µg.l ⁻¹	120	190	170	140	77	200	110	83	24	130	170	230
2,4-Dimethylphenol	µg.l ⁻¹	0.75	0.26	0.32	0.2	0.09	0.29	0.13	0.20	0.19	0.29	0.17	0.32
2,5-Dimethylphenol	µg.l ⁻¹	0.42	0.13	0.14	0.12	0.04	0.13	0.05	0.11	0.13	0.11	0.07	0.09
2,6-Dimethylphenol	µg.l ⁻¹	0.46	0.17	0.21	0.28	<0.03	0.2	0.04	0.07	0.08	0.13	0.13	0.11
3,4-Dimethylphenol	µg.l ⁻¹	1.60	1.00	0.37	0.42	0.51	2.2	0.15	0.14	0.52	1.3	0.34	2.3
o-Ethylphenol	µg.l ⁻¹	0.53	0.17	0.26	0.29	<0.03	0.08	0.05	0.09	0.09	0.1	0.04	0.19
m-Ethylphenol	µg.l ⁻¹	0.38	0.27	0.19	0.22	0.15	0.61	0.12	0.31	0.25	0.29	0.2	0.53
Thymol	µg.l ⁻¹	0.95	0.94	1.20	1.30	1.40	1.50	2.30	1.30	0.70	1.20	1.20	1.20
2,3/3,5-Dimethylphenol+4-Ethylphenol	µg.l ⁻¹	3.50	3.00	2.50	2.00	2.00	5.00	2.50	1.50	4.20	6.00	3.70	5.30

Compounds	Unit	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16
		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
Polycyclic Aromatic Hydrocarbons													
Naphthalene	µg.l ⁻¹	<0.4	<0.4	0.6	<4.0	0.4	0.5	<0.4	<4.0	<0.4	<0.4	<0.4	<4.0
Acenaphthylene	µg.l ⁻¹	<0.04	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.40
Acenaphthene	µg.l ⁻¹	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0
Fluorene	µg.l ⁻¹	0.03	<0.01	0.02	<0.10	0.02	0.02	0.01	<0.10	0.02	0.02	0.03	0.1
Phenanthrene	µg.l ⁻¹	0.05	0.02	0.03	0.30	0.05	0.03	<0.02	<0.20	0.03	<0.02	0.04	0.24
Anthracene	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	0.02	<0.10
Fluoranthene	µg.l ⁻¹	0.02	<0.02	<0.02	<0.20	0.04	<0.02	<0.02	<0.20	0.02	<0.02	<0.02	<0.20
Pyrene	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06	<0.6
Benzo(a)anthracene	µg.l ⁻¹	<0.04	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.40	<0.04	<0.04	<0.04	<0.40
Chrysene	µg.l ⁻¹	<0.02	<0.02	<0.02	0.41	0.03	<0.02	<0.02	0.39	<0.02	<0.02	0.03	0.39
Benzo(b+k)fluoranthene	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.60	<0.06	<0.06	<0.06	<0.60	<0.06	<0.06	<0.06	<0.60
Benzo(a)pyrene	µg.l ⁻¹	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0
Dibenzo(a,h)anthracene	µg.l ⁻¹	<0.08	<0.08	<0.08	<0.8	<0.08	<0.08	<0.08	<0.8	<0.08	<0.08	<0.08	<0.8
Benzo(g,h,i)perylene	µg.l ⁻¹	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0
Indeno(1,2,3-c,d)pyrene	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06	<0.6
Volatile Halogenated Hydrocarbons													
Chloromethane	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloromethane	µg.l ⁻¹	3.20	1.70	2.20	1.30	1.20	1.30	1.50	<0.20	1.50	2.10	2.30	0.89
Vinyl chloride	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trans 1,2-Dichloroethene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis 1,2-Dichloroethene	µg.l ⁻¹	0.21	0.19	1.40	0.36	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chloroethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichlorofluoromethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichloromethane (Chloroform)	µg.l ⁻¹	9.40	8.30	7.70	11.0	6.80	7.80	9.80	12.00	11.00	15.00	14.00	12.00
Tetrachloromethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1-Dichloroethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichloroethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,1-Trichloroethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2-Trichloroethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichloroethane(sum)	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
1,1,2,2-Tetrachloorethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichloroethene	µg.l ⁻¹	<0.10	<0.10	1.00	<0.10	1.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethene	µg.l ⁻¹	2.50	1.10	2.50	0.57	<0.10	<0.10	<0.10	<0.10	0.14	0.15	<0.10	<0.10
2,2-Dichloropropane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichloropropane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2,3-Trichloropropane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1-Dichloro-1-propene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis1,3-Dichloropropene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans1, 3-Dichloropropene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bromomethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bromochloromethane	µg.l ⁻¹	2.30	0.74	0.52	0.55	1.10	<0.10	0.69	<0.10	1.40	1.50	1.40	0.75
Dibromomethane	µg.l ⁻¹	0.45	<0.10	<0.10	<0.10	0.28	<0.10	<0.10	<0.10	0.29	0.23	<0.10	<0.10
1,2-Dibromoethane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tribromomethane	µg.l ⁻¹	0.13	<0.10	<0.10	<0.10	0.58	<0.10	<0.10	<0.10	0.38	<0.10	<0.10	<0.10
Bromodichloromethane	µg.l ⁻¹	1.20	1.10	<0.10	0.49	2.70	0.45	<0.10	2.30	3.00	1.90	<0.10	1.70
Dibromochloromethane	µg.l ⁻¹	0.76	0.62	<0.10	<0.10	2.60	0.23	<0.10	1.00	2.30	0.83	<0.10	0.63
1,2-Dibromo-3-chloropropane	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bromobenzene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzenes													
Monochlorobenzene	µg.l ⁻¹	0.27	0.20	0.18	0.27	0.15	0.11	<0.050	<0.050	0.051	<0.050	<0.050	<0.050
1,2,3-Trichlorobenzene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2,4-Trichlorobenzene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3,5-Trichlorobenzene	µg.l ⁻¹	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,2,3,4-Tetrachlorobenzene	µg.l ⁻¹	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,2,4,5&1,2,3,5 Tetrachlorobenzene	µg.l ⁻¹	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pentachlorobenzene	µg.l ⁻¹	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobenzene	µg.l ⁻¹	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,2-Dichlorobenzene	µg.l ⁻¹	0.56	1.80	0.50	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	0.15	<0.10	<0.10
1,3-Dichlorobenzene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg.l ⁻¹	4.70	4.30	3.50	5.60	1.20	2.00	1.30	0.84	1.40	0.97	0.60	0.66
Chlorophenols													
o-Chlorophenol	µg.l ⁻¹	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0

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m-Chlorophenol	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20
p-Chlorophenol	µg.l ⁻¹	0.10	0.07	0.09	0.10	0.07	0.09	0.08	<0.20	0.06	0.10	0.10	0.20
2,3-Dichlorophenol	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20
2,4/2,5-Dichlorophenol	µg.l ⁻¹	0.16	0.16	0.20	0.22	0.09	0.13	0.13	0.17	0.24	0.24	0.16	0.29
2,6-Dichlorophenol	µg.l ⁻¹	<0.03	<0.03	<0.03	<0.30	<0.03	0.05	<0.03	<0.30	<0.03	<0.03	<0.03	<0.30
3,4-Dichlorophenol	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20
3,5-Dichlorophenol	µg.l ⁻¹	<0.03	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.30
2,3,4-Trichlorophenol	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20
2,3,5-/2,4,5-Trichlorophenol	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20	<0.02	<0.02	<0.02	<0.20
2,3,6-Trichlorophenol	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10
2,4,6-Trichlorophenol	µg.l ⁻¹	<0.05	<0.05	0.05	<0.50	<0.05	0.08	0.07	<0.50	<0.05	<0.05	<0.05	<0.50
3,4,5-Trichlorophenol	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10
2,3,4,5-Tetrachlorophenol	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.10
2,3,4,6/2,3,5,6-Tetrachlorophenol	µg.l ⁻¹	<0.020	<0.020	<0.020	<0.20	<0.020	<0.020	<0.020	<0.20	<0.020	<0.020	<0.020	<0.20
Pentachlorophenol	µg.l ⁻¹	<0.010	<0.010	<0.010	<0.10	0.019	<0.010	<0.010	<0.10	0.02	0.01	<0.010	<0.10
4-Chloro-3-methylphenol	µg.l ⁻¹	0.12	0.11	0.15	0.2	0.11	0.06	0.12	0.2	0.7	0.2	0.13	0.61
Polychlorinated Biphenyls													
PCB28	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Organochlorine Pesticides													
4,4-DDE	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4,4-DDT	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4,4-DDD	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Aldrin	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dieldrin	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endrin	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
α-HCH	µg.l ⁻¹	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
β-HCH	µg.l ⁻¹	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07

Compounds	Unit	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16
		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
γ-HCH	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
δ-HCH	µg.l ⁻¹	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
α -Endosulfan	µg.l ⁻¹	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
α -Endosulfansulphate	µg.l ⁻¹	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
α-Chlordane	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
γ-Chlordane	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	µg.l ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlorepoide	µg.l ⁻¹	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Hexachlorobutadiene	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Organophosphate Pesticides													
Azinphos-ethyl	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl	µg.l ⁻¹	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
Bromophos-ethyl	µg.l ⁻¹	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
Bromophos-methyl	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Chloropyrifos-ethyl	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Chloropyrifos-methyl	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cumaphos	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Demeton-S/Demeton-O-ethyl	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	µg.l ⁻¹	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.08	0.05	<0.04	<0.04
Dichlorvos	µg.l ⁻¹	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Disulphotone	µg.l ⁻¹	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Fenitrothion	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-ethyl	µg.l ⁻¹	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-methyl	µg.l ⁻¹	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pyrazophos	µg.l ⁻¹	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Triazophos	µg.l ⁻¹	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nitrogenous Pesticides													
Ametryn	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Atrazine	µg.l ⁻¹	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Cyanazine	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Desmetryn	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Compounds	Unit	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16
		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
Prometryn	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Propazine	µg.l ⁻¹	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Simazine	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.34	<0.20
Terbutylazine	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Terbutryn	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Miscellaneous Pesticides													
Bifenthrin	µg.l ⁻¹	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Carbaryl	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cypermethrin A,B,C,D	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Deltamethrin	µg.l ⁻¹	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Linuron	µg.l ⁻¹	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Permethrin A	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.06	0.13	0.09	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Permethrin B	µg.l ⁻¹	<0.06	<0.06	<0.06	<0.06	0.22	0.15	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Propachlor	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Trifluralin	µg.l ⁻¹	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Miscellaneous Organic Compounds													
Biphenyl	µg.l ⁻¹	0.04	<0.01	0.07	0.05	0.03	<0.01	0.02	<0.01	0.03	0.02	0.05	<0.04
Nitrobenzene	µg.l ⁻¹	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dibenzofurane	µg.l ⁻¹	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Petroleum Hydrocarbons													
TPH C10-C12	µg.l ⁻¹	74	36	18	17	56	70	<10	110	22	12	11	35
TPH C12-C16	µg.l ⁻¹	140	48	38	36	100	80	18	74	30	18	26	80
TPH C16-C21	µg.l ⁻¹	400	130	54	120	480	300	87	300	130	56	70	250
TPH C21-C30	µg.l ⁻¹	1400	350	230	570	2000	910	420	1600	570	250	330	1200
TPH C30-C35	µg.l ⁻¹	450	110	44	140	460	380	74	380	150	34	59	340
TPH C35-C40	µg.l ⁻¹	150	39	<20	45	160	130	24	140	50	<20	20	120
TPH (sum C10-C40)	µg.l ⁻¹	2600	710	400	930	3200	1900	620	2600	960	390	520	2100
Pharmaceutical Compounds													
4-Dimethylaminoantipyrine	µg.l ⁻¹	<0.05	<0.05		<0.05	<0.05	<0.05		<0.05	<0.05	<0.05		<0.05
Atorvastatin	µg.l ⁻¹	0.16	0.11		0.45	0.22	0.13		0.51	<2.0	0.26		0.39
Benzocaine	µg.l ⁻¹	<0.05	<0.05		0.12	<0.01	<0.01		0.02	0.15	<0.01		0.07

Compounds	Unit	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16
		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
Bezafibrate	µg.l ⁻¹	1.00	1.60		1.30	0.35	0.76		0.74	2.50	2.20		4.3
Carbadox	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.02
Carbamazepine	µg.l ⁻¹	0.58	0.28		0.58	0.19	0.28		0.33	0.52	0.43		0.6
Chloramphenicol	µg.l ⁻¹	<0.01	<0.02		<0.1	<0.01	<0.06		<0.03	<0.01	<0.02		<0.05
Clindamycin	µg.l ⁻¹	0.03	0.04		0.08	0.03	0.03		0.16	0.02	0.02		0.04
Cloxacillin	µg.l ⁻¹	<0.01	<0.03		<0.03	<0.01	<0.03		<0.02	<0.01	<0.03		<0.01
Cortisone	µg.l ⁻¹	0.02	<0.03		<0.05	<0.1	<0.03		0.23	0.22	<0.05		0.3
Cyclophosphamide	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Dapsone	µg.l ⁻¹	<0.05	<0.02		0.12	0.06	<0.02		<0.02	<0.05	<0.02		<0.01
Dexamethasone	µg.l ⁻¹	<0.01	<0.05		<0.03	<0.01	<0.03		<0.01	<0.05	<0.03		0.1
Diazepam	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Diclofenac	µg.l ⁻¹	0.46	0.85		1.80	0.66	0.63		1.50	0.57	0.94		1.6
Dicloxacilline	µg.l ⁻¹	<0.01	<0.03		<0.1	<0.01	<0.03		<0.1	<0.1	<0.03		<0.1
Dimetridazole	µg.l ⁻¹	<0.2	<0.15		<0.2	<0.2	<0.15		<0.6	<0.2	<0.15		<0.2
Etoposide	µg.l ⁻¹	<0.1	<0.1		<0.1	<0.1	<0.1		<0.1	<0.1	<0.1		<0.1
Phenazone	µg.l ⁻¹	<0.05	<0.01		<0.05	<0.1	<0.01		<0.03	<0.01	<0.02		<0.05
Fenofibrate	µg.l ⁻¹	<0.05	<0.03		<0.01	0.09	<0.03		0.08	<0.01	<0.03		<0.01
Florfenicol	µg.l ⁻¹	<0.05	<0.03		<0.05	<0.01	<0.03		<0.05	<0.01	<0.05		<0.05
Furazolidone	µg.l ⁻¹	<0.01	0.02		<0.02	<0.01	<0.01		<0.05	<0.01	<0.01		<0.02
Gemfibrozil	µg.l ⁻¹	<0.1	<0.01		0.39	0.12	<0.05		0.37	<0.01	0.32		<0.01
Ifosfamide	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Indomethacin	µg.l ⁻¹	0.13	0.26		0.38	0.09	0.11		0.22	0.29	0.09		0.03
Irbesartan	µg.l ⁻¹	0.42	1.10		1.1	0.44	0.81		1.7	0.35	1.5		2.5
Ketoprofen	µg.l ⁻¹	<0.05	<0.10		0.23	<0.05	<0.05		0.09	<0.05	<0.05		0.07
Levetiracetam	µg.l ⁻¹	0.26	<0.05		0.37	1.20	0.44		0.86	<0.05	0.51		<0.05
Lidocaine	µg.l ⁻¹	0.19	0.03		0.25	0.09	0.06		0.42	<0.05	0.08		0.13
Lincomycin	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Mebendazole	µg.l ⁻¹	0.26	1.30		0.98	0.17	0.25		0.36	0.16	0.59		0.82
Metronidazole	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Monensin	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		0.01	<0.01	<0.01		<0.01
Nafcillin	µg.l ⁻¹	<0.05	<0.02		<0.01	<0.01	<0.02		<0.01	<0.01	<0.02		<0.01
Naproxen	µg.l ⁻¹	1.90	1.30		3.70	4.20	2.70		3.00	2.20	0.87		3.1
Oxacilline	µg.l ⁻¹	<0.05	<0.05		<0.03	<0.01	<0.05		<0.02	<0.01	<0.05		<0.05
Oxazepam	µg.l ⁻¹	0.11	0.07		0.31	0.17	0.09		<0.1	0.15	0.23		<0.2
Paracetamol	µg.l ⁻¹	210	240		420	970	620		250	330	290		970

Compounds	Unit	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16	Mar-16	May-16	Jul-16	Sep-16
		Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay
Pentoxifylline	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.02		<0.01	<0.01	<0.02		<0.01
Primidone	µg.l ⁻¹	0.10	<0.01		0.07	0.93	<0.02		0.14	<0.01	0.23		<0.05
Progesterone	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.05	<0.01		0.06	<0.01	<0.01		0.03
Ronidazole	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Sulfadimethoxine	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Sulfadimidine	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Sulfamerazine	µg.l ⁻¹	<0.01	<0.01		<0.01	<0.01	<0.01		<0.03	<0.01	<0.01		<0.02
Sulfaquinoxaline	µg.l ⁻¹	<0.01	<0.01		<0.03	<0.05	<0.01		<0.02	<0.01	<0.01		<0.01
Terbutaline	µg.l ⁻¹	<0.01	<0.01		<0.02	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01
Triclocarban	µg.l ⁻¹	0.71	0.82		1.80	0.88	0.5		2.70	1.10	0.83		3.1
Warfarin	µg.l ⁻¹	<0.05	<0.02		<0.02	<0.01	<0.02		<0.02	<0.01	<0.02		<0.02

Appendix 2. Fertilisation success of sea urchin gametes exposed to serial dilutions of effluent collected from the Green Point, Camps Bay and Hout Bay wastewater works in 2016.

Date	Species	Green Point Effluent		Camps Bay Effluent		Hout Bay Effluent	
		Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)
April 2016	<i>Echinometra mathaei</i>	50	0.25	20	0	5	9
		50	0.25	20	0	5	10
		50	0.25	20	0	5	9
		50	0.25	20	0	5	11
		80	38	40	5	10	93
		80	42	40	4	10	94
		80	39	40	5	10	94
		80	43	40	6	10	95
		100	73	50	70	15	100
		100	72	50	73	15	99
		100	70	50	75	15	99
		100	71	50	71	15	100
		120	95	60	92		
		120	94	60	90		
		120	95	60	91		
		120	95	60	91		
		140	99	80	99		
		140	100	80	100		
		140	99	80	99		
		140	99	80	100		
Date	Species	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)
May 2016	<i>Tripneustes gratilla</i>	20	2	20	5	5	0.1
		20	1	20	4	5	0.1
		20	2	20	3	5	0.1
		20	2	20	4	5	0.1
		50	90	40	16	10	5
		50	91	40	15	10	6
		50	90	40	13	10	5
		50	89	40	15	10	7

Date	Species	Green Point Effluent		Camps Bay Effluent		Hout Bay Effluent	
		Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)
		80	95	60	37	16	13
		80	95	60	34	16	12
		80	96	60	38	16	15
		80	96	60	33	16	13
				80	74	20	47
				80	75	20	45
				80	78	20	48
				80	76	20	48
				100	88	25	72
				100	87	25	73
				100	86	25	70
				100	88	25	74
				120	96	40	96
				120	96	40	96
				120	95	40	95
				120	95	40	95
Date	Species	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)
July 2016	<i>Tripneustes gratilla</i>	20	0	5	0	20	2
		20	0	5	0	20	1
		20	0	5	0	20	1
		20	0	5	0	20	2
		40	0	10	0	50	94
		40	0	10	0	50	96
		40	0	10	0	50	95
		40	0	10	0	50	95
		60	0.1	16	6	80	97
		60	0.1	16	4	80	97
		60	0.1	16	5	80	98
		60	0.1	16	4	80	98
		80	1	20	62		
		80	2	20	65		
		80	1	20	63		
		80	1	20	60		

Date	Species	Green Point Effluent		Camps Bay Effluent		Hout Bay Effluent	
		Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)
		100	96	25	90		
		100	95	25	91		
		100	94	25	86		
		100	96	25	89		
		120	98	40	98		
		120	98	40	98		
Date	Species	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)	Effluent Dilution	Fertilisation Success (%)
September 2016	<i>Tripneustes gratilla</i>	20	0	5	0	20	2
		20	0	5	0	20	1
		20	0	5	0	20	1
		20	0	5	0	20	2
		50	28	10	4	50	94
		50	25	10	3	50	92
		50	26	10	6	50	93
		50	27	10	5	50	93
		100	63	16	30	80	99
		100	67	16	33	80	99
		100	64	16	32	80	100
		100	65	16	32	80	100
		200	95	20	72		
		200	96	20	73		
		200	94	20	70		
		200	95	20	72		
		500	99	25	96		
		500	99	25	97		
		500	100	25	98		
		500	100	25	96		
				40	99		
				40	99		
				40	100		

Appendix 3. Fertilisation success of sea urchin gametes exposed to surface seawater samples collected in the greater vicinities of the Green Point, Camps Bay and Hout Bay outfalls in 2016.

Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
March 2016	<i>Echinometra mathaei</i>	Control	99	100	99	100
		CB-5	99	99	100	100
		CB-6	99	100	99	100
		CB-8	100	99	99	100
		HB-4	100	99	99	100
		HB-5	99	100	99	100
		HB-6	100	99	99	100
		HB-7	99	100	99	100
		HB-9	100	99	99	100
		GP-4	99	99	99	100
		GP-5	99	99	100	100
		GP-6	99	100	99	100
		GP-7	100	99	99	99
		GP-8	99	100	99	100
		GP-9	100	99	100	99
		GP-10	100	99	100	100
		GP-12	100	99	99	100
		GP-14	99	100	99	100
Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
April 2016	<i>Echinometra mathaei</i>	Control	99	100	99	100
		CB-4	99	99	99	100
		CB-5	100	99	99	100
		CB-6	99	100	99	100
		CB-7	99	99	100	100
		CB-8	99	99	99	100
		CB-9	100	99	99	100
		CB-11	99	100	100	100
		HB-3	99	100	99	100
		HB-4	100	99	100	100
		HB-5	99	100	100	100
		HB-6	100	99	99	100
		HB-7	99	100	100	100
		HB-8	99	99	99	100

Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
		HB-9	100	99	99	100
		GP-4	99	99	99	100
		GP-5	99	100	100	100
		GP-6	99	100	99	100
		GP-7	100	99	99	100
		GP-8	99	100	99	100
		GP-9	99	99	99	100
		GP-10	100	99	99	100
		GP-12	99	99	99	100
		GP-14	99	100	100	100
Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
April 2016	<i>Echinometra mathaei</i>	Control	100	99	99	100
		CB-4	100	99	99	100
		CB-5	100	99	100	100
		CB-6	99	100	99	100
		CB-7	100	99	100	100
		CB-8	99	100	99	99
		CB-9	100	99	99	100
		CB-11	99	100	99	100
		HB-3	99	100	99	100
		HB-4	100	99	99	100
		HB-5	99	100	100	99
		HB-6	100	99	99	100
		HB-7	99	100	99	99
		HB-8	100	99	99	100
		HB-9	100	99	99	100
		GP-4	99	100	99	100
		GP-5	99	100	100	100
		GP-6	99	100	99	100
		GP-7	100	99	99	100
		GP-8	99	99	99	100
		GP-9	99	100	99	100
		GP-10	100	99	99	99
		GP-12	99	100	99	100
		GP-14	99	100	100	99

Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
May 2016	<i>Tripneustes gratilla</i>	Control	96	96	95	95
		CB-4	96	96	95	95
		CB-5	96	96	95	95
		CB-6	96	96	95	95
		CB-7	96	96	95	95
		CB-8	96	96	95	95
		CB-9	96	96	95	95
		CB-11	96	96	95	95
		HB-3	96	96	95	95
		HB-4	96	96	95	95
		HB-5	96	96	95	95
		HB-6	96	96	95	95
		HB-7	96	96	95	95
		HB-8	96	96	95	95
		HB-9	96	96	95	95
		GP-4	96	96	95	95
		GP-5	96	96	95	95
		GP-6	96	96	95	95
		GP-7	96	96	95	95
		GP-8	96	96	95	95
		GP-9	96	96	95	95
		GP-10	96	96	95	95
		GP-12	96	96	95	95
		GP-14	96	96	95	95
Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
June 2016	<i>Tripneustes gratilla</i>	Control	98	99	99	98
		CB-4	98	99	99	98
		CB-5	96	96	95	95
		CB-6	96	96	95	95
		CB-7	98	99	99	98
		CB-8	96	96	95	95
		CB-9	96	96	95	95
		CB-11	98	99	99	98
		HB-3	99	98	99	99
		HB-4	98	99	98	98

Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
		HB-5	99	98	99	99
		HB-6	98	99	99	98
		HB-7	98	99	99	98
		HB-8	98	99	98	98
		HB-9	98	99	98	98
		GP-4	99	98	99	99
		GP-5	98	99	99	98
		GP-6	98	99	98	98
		GP-7	99	98	99	99
		GP-8	99	98	99	99
		GP-9	98	99	98	98
		GP-12	98	99	99	98
		GP-14	99	98	99	99
Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
July 2016	<i>Tripneustes gratilla</i>	Control	97	97	98	98
		CB-4	97	97	98	98
		CB-5	97	97	97	98
		CB-6	97	97	98	98
		CB-7	97	97	98	98
		CB-8	97	98	98	98
		CB-9	97	97	98	98
		CB-11	97	97	98	98
		HB-4	97	97	98	98
		HB-5	97	97	97	98
		HB-6	95	94	95	96
		HB-7	97	98	98	98
		HB-8	97	97	98	98
		HB-9	97	97	98	98
		GP-4	97	97	98	98
		GP-5	98	97	98	98
		GP-6	97	97	98	98
		GP-7	97	97	98	98
		GP-8	98	97	98	98
		GP-9	97	97	98	98
		GP-10	97	97	98	98

Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
		GP-12	97	97	98	98
		GP-14	97	97	97	98
Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
August 2016	<i>Tripneustes gratilla</i>	Control	99	99	98	98
		CB-4	99	99	98	98
		CB-5	98	99	99	98
		CB-6	98	99	99	98
		CB-7	99	99	98	98
		CB-8	99	99	98	98
		CB-9	99	98	98	99
		CB-11	99	99	98	98
		HB-3	99	99	98	98
		HB-4	98	99	99	98
		HB-5	99	99	98	98
		HB-6	98	99	99	98
		HB-7	99	99	98	98
		HB-8	99	99	98	98
		HB-9	99	98	98	99
		GP-4	99	99	98	98
		GP-5	98	99	99	98
		GP-6	99	99	98	98
		GP-7	98	99	99	98
		GP-8	99	99	98	98
		GP-9	99	99	98	98
		GP-10	98	99	99	98
		GP-12	99	99	98	98
		GP-14	98	99	99	98
Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
September 2016	<i>Tripneustes gratilla</i>	Control	99	99	100	100
		CB-4	99	99	100	100
		CB-5	99	100	99	100
		CB-6	100	99	99	100
		CB-7	100	99	99	100
		CB-8	99	100	99	100

Date	Species	Treatment/ Site	Fertilisation Success (%)			
			Replicate 1	Replicate 2	Replicate 3	Replicate 4
		CB-9	100	99	99	100
		CB-11	99	100	99	100
		HB-4	100	99	99	100
		HB-5	99	99	100	100
		HB-6	99	99	100	100
		HB-7	99	100	99	100
		HB-8	100	99	100	99
		HB-9	99	100	99	100
		GP-4	100	99	100	99
		GP-5	100	99	99	100
		GP-6	100	99	99	100
		GP-7	99	100	99	100
		GP-8	100	99	100	99
		GP-9	99	100	99	100
		GP-10	100	99	100	99
		GP-12	99	100	99	100
		GP-14	100	99	100	99

Appendix 4. Colony forming counts for faecal indicator bacteria in surface seawater samples collected in the greater vicinities of the Green Point, Camps Bay and Hout Bay outfalls in 2016.

Green Point		Station													
Date	Bacterium	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	GP-10	GP-11	GP-12	GP-13	GP-14
25-Jan-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	2	3	<1	3
	Faecal streptococci	<1	<1	<1	2	<1	<1	<1	<1	18	3	3	<1	<1	<1
29-Feb-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
	Faecal streptococci	<1	8	1	<1	<1	<1	<1	<1	<1	23	4	<1	<1	<1
04-Apr-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	8	<1	1	<1	<1	<1	<1
	Faecal streptococci	<1	2	2	3	1	<1	<1	<1	<1	4	<1	<1	1	<1
12-Apr-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	7	18	19
	Faecal streptococci	4	2	3	<1	<1	<1	3	1	<1	6	2	2	8	11
23-May-16	<i>E. coli</i>	<1	<1	<1	<1	<1	>10000	57	22	82	1	2	<1	3	6
	Faecal streptococci	5	<1	<1	<1	6	>10000	36	31	106	4	1	<1	3	<1
20-Jun-16	<i>E. coli</i>	21	21	72	470	3800	>10000	11000	6100	<1	74	240	97	390	380
	Faecal streptococci	21	29	280	300	690	6400	3700	900	<1	71	250	290	81	390
11-Jul-16	<i>E. coli</i>	<1	<1	21	<1	16	>10000	>10000	51	15	14	4	6	113	14
	Faecal streptococci	4	<1	18	58	32	5400	4500	22	29	55	3	16	4	68
16-Aug-16	<i>E. coli</i>	<1	<1	<1	<1	1	22	390	2200	6400	<1	<1	2	<1	<1
	Faecal streptococci	<1	<1	<1	<1	<1	10	140	380	2400	<1	<1	1	<1	<1
13-Sep-16	<i>E. coli</i>	<1	<1	<1	<1	<1	12	11	4	<1	<1	<1	1	<1	<1
	Faecal streptococci	1	1	<1	1	1	10	11	10	12	<1	<1	<1	<1	<1
25-Oct-16	<i>E. coli</i>	<1	<1	<1	<1	<1	22000	<1	<1	<1	<1	<1	<1	<1	5
	Faecal streptococci	<1	<1	<1	<1	<1	9800	<1	<1	<1	<1	<1	<1	1	1
08-Nov-16	<i>E. coli</i>	<1	<1	<1	<1	<1	44000	51000	82	<1	<1	<1	1	2	4
	Faecal streptococci	<1	1	<1	4	<1	3400	3700	66	4	1	3	3	<1	13
08-Dec-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	7	5	4	<1	<1
	Faecal streptococci	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	1	<1	<1
Camps Bay		Station													
Date	Bacterium	CB-1	CB-2	CB-3	CB-4	CB-5	CB-6	CB-7	CB-8	CB-9	CB-10	CB-11	CB-12	CB-13	
25-Jan-16	<i>E. coli</i>	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	
	Faecal streptococci	88	4	2	2	<1	<1	2	4	<1	<1	<1	16	<1	
29-Feb-16	<i>E. coli</i>	<1	<1	<1	<1	1	<1	6	<1	<1	<1	<1	<1	<1	
	Faecal streptococci	<1	1	1	<1	6	<1	6	<1	1	<1	<1	1	1	
05-Apr-16	<i>E. coli</i>	29	<1	<1	1	29	19	26	28	<1	<1	4	1	<1	
	Faecal streptococci	22	<1	<1	<1	9	2	10	6	1	2	5	6	<1	
18-Apr-16	<i>E. coli</i>	<1	<1	<1	<1	2	2	1	1	<1	2	5	3	1	
	Faecal streptococci	<1	2	1	1	11	7	14	4	<1	10	5	9	<1	

16-Jun-16	<i>E. coli</i>	1	5	46	<1	<1	<1	<1	7500	4	9	2	<1	7	
	Faecal streptococci	2	2	19	<1	32	9	29	720	3	67	11	<1	1	
28-Jun-16	<i>E. coli</i>	2	1	4	<1	<1	<1	4	10	10	5	1	1	8	
	Faecal streptococci	5	<1	9	1	<1	4	1	6	8	<1	7	1	2	
18-Jul-16	<i>E. coli</i>	<1	<1	6	2	17	9400	6700	<1	<1	2	3	41	1	
	Faecal streptococci	<1	<1	<1	6	31	6100	780	1	<1	18	3	26	<1	
30-Aug-16	<i>E. coli</i>	<1	<1	<1	<1	<1	39	7600	<1	<1	<1	4	6	3	
	Faecal streptococci	<1	<1	<1	<1	4	38	3900	1	5	<1	7	1	2	
13-Sep-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	Faecal streptococci	<1	<1	<1	1	<1	<1	1	<1	<1	<1	52	<1	<1	
17-Oct-16	<i>E. coli</i>	<1	<1	22	<1	<1	<1	<1	<1	4	<1	<1	<1	1	
	Faecal streptococci	<1	<1	98	6	<1	7	<1	23	6	<1	<1	<1	5	
22-Nov-16	<i>E. coli</i>	<1	<1	<1	<1	12	<1	<1	<1	<1	<1	<1	<1	<1	
	Faecal streptococci	<1	<1	<1	1	20	2	<1	<1	1	4	1	1	1	
06-Dec-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	Faecal streptococci	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	
Hout Bay		Station													
Date	Bacterium	HB-1	HB-2	HB-3	HB-4	HB-5	HB-6	HB-7	HB-8	HB-9	HB-10	HB-11	HB-12		
25-Jan-16	<i>E. coli</i>	8	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
	Faecal streptococci	12	<1	<1	<1	3	<1	3	6	<1	<1	<1	<1		
01-Mar-16	<i>E. coli</i>	1	1	<1	2	<1	40000	<1	1	<1	1	<1	<1		
	Faecal streptococci	6	1	1	<1	1	4300	<1	32	3	64	<1	2		
30-Mar-16	<i>E. coli</i>	52	80	21	31	8	1	4	11	37	No data	No data	3		
	Faecal streptococci	71	42	5	16	2	1	1	8	15	No data	No data	3		
19-Apr-16	<i>E. coli</i>	25	1	<1	4	1	2	<1	2	<1	1	<1	<1		
	Faecal streptococci	26	<1	1	2	13	21	2	<1	1	<1	5	6		
17-Jun-16	<i>E. coli</i>	32	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
	Faecal streptococci	43	5	<1	1	4	<1	3	<1	1	<1	<1	<1		
28-Jun-16	<i>E. coli</i>	13	72	21	11	7	3	6	18	36	13	27	28		
	Faecal streptococci	23	68	18	12	9	9	113	14	39	27	21	25		
19-Jul-16	<i>E. coli</i>	47	43	69	30	104	3900	94	7	22	5	6	<1		
	Faecal streptococci	67	26	32	45	390	760	200	22	41	9	11	<1		
29-Aug-16	<i>E. coli</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
	Faecal streptococci	4	7	2	<1	<1	<1	<1	<1	1	<1	<1	<1		
12-Sep-16	<i>E. coli</i>	12	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1		
	Faecal streptococci	74	4	<1	<1	<1	1	<1	<1	3	<1	<1	<1		
10-Oct-16	<i>E. coli</i>	1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
	Faecal streptococci	10	8	3	<1	<1	<1	<1	<1	16	<1	<1	<1		

29-Nov-16	<i>E. coli</i>	2	<1	8	3	<1	<1	3	13	2	7	1	<1		
	Faecal streptococci	14	<1	14	5	<1	8	9	13	1	2	6	<1		
13-Dec-16	<i>E. coli</i>	15	5	7	13	52	8	9	21	10	3	9	<1		
	Faecal streptococci	10	1	9	16	137	3	6	8	24	1	2	<1		

Appendix 5. Results of analyses on sediment samples collected in the Table Bay, Camps Bay and Hout Bay areas in 2015.

		Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point
Parameter	Unit	TB1	TB2	TB3	TB4	TB5	TB6	TB7	TB8	TB9	TB10	TB11	TB12	TB13	TB14	TB15	TB16	TB17
Gravel	%	0.00	0.43	0.05	0.00	0.00	0.00	0.03	0.03	0.00	0.14	0.00	0.00	0.00	0.04	0.00	0.00	0.33
Very coarse-grained sand	%	0.40	0.49	0.09	0.20	0.03	7.45	0.00	0.00	0.03	0.55	1.03	1.21	0.20	0.08	0.26	0.36	14.18
Coarse-grained sand	%	1.05	0.75	0.67	0.85	0.37	61.77	0.33	0.64	0.07	0.62	4.73	15.04	1.10	1.14	4.51	10.79	33.00
Medium-grained sand	%	2.38	1.15	2.05	3.35	2.76	28.71	5.18	3.06	1.61	2.89	13.26	58.59	17.16	9.32	55.67	39.78	20.72
Fine-grained sand	%	46.81	56.37	51.95	56.53	57.34	0.82	50.32	37.84	44.92	45.04	43.95	19.47	50.79	54.33	20.03	24.10	9.35
Very fine-grained sand	%	46.76	38.33	42.00	36.45	37.30	0.26	39.80	49.32	40.60	32.76	23.97	4.57	24.59	29.58	16.50	18.53	17.60
Mud	%	2.61	2.49	3.18	2.62	2.20	0.99	4.34	9.12	12.78	18.00	13.06	1.11	6.16	5.51	3.04	6.45	4.83
Total organic content	%	0.35	0.29	0.45	0.33	0.42	0.17	0.39	0.50	0.72	0.89	0.72	0.20	0.38	0.33	2.17	0.42	0.75
Aluminium	mg.g ⁻¹	1.03	1.08	1.05	1.67	2.06	1.66	3.25	4.67	5.17	5.28	7.88	1.80	5.69	4.29	2.70	2.66	5.64
Iron	mg.g ⁻¹	1.25	1.28	1.32	1.94	1.95	1.91	2.79	3.38	3.55	3.77	6.09	2.16	6.40	3.88	2.86	2.61	4.54
Arsenic	µg.g ⁻¹	<1.0	<1.0	<1.0	<1.0	<1.0	1.30	1.79	3.09	2.92	4.83	5.52	<1.0	4.16	2.15	<1.0	<1.0	3.15
Barium	µg.g ⁻¹	16.30	14.20	14.30	23.10	21.95	26.30	26.40	42.40	48.30	50.50	63.80	26.30	73.10	55.00	31.10	31.00	41.71
Beryllium	µg.g ⁻¹	<0.1	0.11	<0.1	0.12	0.15	<0.1	0.19	0.26	0.28	0.25	0.35	0.14	0.39	0.27	0.19	0.19	0.30
Cadmium	µg.g ⁻¹	0.14	0.14	0.12	0.18	0.23	0.12	0.21	0.35	0.51	0.43	0.35	0.10	0.22	0.28	0.15	0.21	0.26
Cobalt	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	0.83	1.03	1.05	2.43	<0.50	1.08	0.97	0.58	<0.50	1.15
Copper	µg.g ⁻¹	0.51	0.87	0.62	0.88	1.00	4.78	3.95	5.59	8.58	10.35	80.85	2.19	21.10	11.35	3.41	3.24	2.72
Chromium	µg.g ⁻¹	10.30	10.10	9.36	4.53	4.03	2.98	11.67	12.63	11.03	11.83	17.13	4.31	14.17	10.43	6.16	7.04	7.80
Manganese	µg.g ⁻¹	15.10	18.70	18.60	21.64	19.84	20.40	44.20	35.14	37.14	38.24	60.24	19.30	68.60	51.04	36.84	24.94	36.23
Mercury	µg.g ⁻¹	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.04	0.05	0.07	<0.01	0.06	0.04	0.01	0.01	0.05
Nickel	µg.g ⁻¹	1.29	1.16	1.57	0.94	2.21	0.93	2.10	3.13	3.65	3.65	6.30	1.72	4.74	2.92	2.09	2.24	3.67
Lead	µg.g ⁻¹	<2.05	<2.05	2.18	3.51	<2.05	5.92	8.47	9.13	8.72	12.03	57.93	10.90	17.00	8.74	6.42	5.69	9.07
Vanadium	µg.g ⁻¹	3.92	3.86	4.07	3.86	4.28	3.67	5.16	7.42	8.25	8.95	13.45	3.71	12.20	8.24	5.25	4.52	9.41
Zinc	µg.g ⁻¹	4.26	4.25	4.63	5.54	11.77	5.55	12.70	22.00	42.50	39.00	39.70	8.18	36.00	27.90	8.50	8.80	12.43
2-Chlorophenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
2-Methylphenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
3- and 4-Methylphenol	µg.g ⁻¹	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<1.0	ND	<1.0
2-Nitrophenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
2,4-Dimethylphenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
2,4-Dichlorophenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
2,6-Dichlorophenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
4-Chloro-3-methylphenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
2,4,6-Trichlorophenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
2,4,5-Trichlorophenol	µg.g ⁻¹	ND	ND	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	<0.50
Pentachlorophenol	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0

TPH (C10 - C14)	µg.g ⁻¹	ND	ND	ND	<3.0	3.0	<3.0	<3.0	4.0	6.0	4.0	4.0	<3.0	6.0	ND	<3.0	ND	<3.0
TPH (C15 - C28)	µg.g ⁻¹	ND	ND	ND	6.0	17.0	<3.0	11.0	18.0	52.0	42.0	22.0	15.0	18.0	ND	8.0	ND	12.0
TPH (C29 - C36)	µg.g ⁻¹	ND	ND	ND	<5.0	6.0	<5.0	8.0	15.0	30.0	24.0	18.0	6.0	14.0	ND	<5.0	ND	6.0
TRH (C10 - C16)	µg.g ⁻¹	ND	ND	ND	<3.0	<3.0	<3.0	<3.0	<3.0	5.0	4.0	4.0	<3.0	4.0	ND	<3.0	ND	<3.0
TRH (C16 - C34)	µg.g ⁻¹	ND	ND	ND	10.0	21.0	<3.0	17.0	29.0	74.0	58.0	34.0	20.0	28.0	ND	10.0	ND	15.0
TRH (C34 - C40)	µg.g ⁻¹	ND	ND	ND	<5.0	6.0	<5.0	6.0	12.0	21.0	17.0	14.0	<5.0	12.0	ND	<5.0	ND	<5.0
Naphthalene	µg.g ⁻¹	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	6.0	30.0	16.0	<5.0	35.0	ND	<5.0	ND	<5.0
2-Methylnaphthalene	µg.g ⁻¹	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	6.0	26.0	22.0	<5.0	68.0	ND	<5.0	ND	<5.0
Acenaphthylene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.0	ND	<4.0	ND	<4.0
Acenaphthene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	12.0	<4.0	<4.0	<4.0	ND	<4.0	ND	<4.0
Fluorene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	18.0	8.0	<4.0	15.0	ND	<4.0	ND	<4.0
Phenanthrene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	11.0	9.0	20.0	109.0	46.0	<4.0	55.0	ND	<4.0	ND	8.0
Anthracene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	22.0	7.0	<4.0	9.0	ND	<4.0	ND	<4.0
Fluoranthene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	16.0	14.0	24.0	105.0	44.0	5.0	55.0	ND	6.0	ND	5.0
Pyrene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	14.0	13.0	24.0	93.0	43.0	4.0	53.0	ND	6.0	ND	6.0
Benz(a)anthracene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	7.0	7.0	11.0	59.0	34.0	<4.0	45.0	ND	<4.0	ND	4.0
Chrysene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	5.0	6.0	10.0	50.0	29.0	<4.0	35.0	ND	<4.0	ND	4.0
Benzo(b+j)fluoranthene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	8.0	9.0	16.0	61.0	35.0	5.0	46.0	ND	5.0	ND	7.0
Benzo(k)fluoranthene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	4.0	5.0	5.0	20.0	16.0	<4.0	22.0	ND	<4.0	ND	<4.0
Benzo(e)pyrene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	5.0	6.0	10.0	36.0	25.0	<4.0	33.0	ND	<4.0	ND	4.0
Benzo(a)pyrene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	6.0	6.0	10.0	43.0	25.0	<4.0	36.0	ND	<4.0	ND	<4.0
Perylene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	10.0	6.0	<4.0	8.0	ND	<4.0	ND	<4.0
Benzo(g,h,i)perylene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	5.0	6.0	10.0	30.0	24.0	<4.0	33.0	ND	<4.0	ND	4.0
Dibenz(a,h)anthracene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	10.0	6.0	<4.0	8.0	ND	<4.0	ND	<4.0
Indeno(1,2,3-cd)pyrene	µg.g ⁻¹	ND	ND	ND	<4.0	<4.0	<4.0	4.0	5.0	7.0	23.0	16.0	<4.0	23.0	ND	<4.0	ND	<4.0
Coronene	µg.g ⁻¹	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.0	8.0	<5.0	10.0	ND	<5.0	ND	<5.0
PCB 8	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 18	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 28	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 44	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 52	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 66	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 77	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 101	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 105	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 118	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 126	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 128	µg.g ⁻¹	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0

PCB 138	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 153	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	2.9	ND	<2.0	ND	<2.0
PCB 169	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 170	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 180	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 187	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 195	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 206	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
PCB 209	$\mu\text{g}\cdot\text{g}^{-1}$	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	<2.0
		Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Green Point	Camps Bay	Camps Bay	Camps Bay	Camps Bay	Camps Bay
Parameter	Unit	TB18	TB19	TB20	TB21	TB22	TB23	TB24	TB25	TB26	TB27	TB28	CB1	CB2	CB3	CB4	CB5	CB6
Gravel	%	0.00	0.00	17.97	0.08	0.00	0.08	0.49	0.00	0.20	7.67	0.05	0.00	2.79	1.06	0.00	0.00	8.89
Very coarse-grained sand	%	0.00	0.10	6.23	0.15	0.07	1.65	1.30	0.27	40.65	11.85	1.75	16.05	26.18	12.01	6.64	0.00	27.45
Coarse-grained sand	%	0.16	1.03	28.68	1.78	0.07	12.54	11.85	1.34	51.85	57.49	63.22	68.25	37.76	56.88	64.39	0.82	47.03
Medium-grained sand	%	0.66	9.57	20.13	9.64	0.49	33.99	37.45	2.67	2.51	22.21	32.40	10.73	25.10	27.05	19.41	93.20	15.82
Fine-grained sand	%	38.63	45.03	10.55	43.44	45.75	14.83	17.28	9.96	1.33	0.39	1.68	1.29	6.88	1.87	2.28	5.14	0.50
Very fine-grained sand	%	58.00	40.84	13.71	42.46	49.70	34.83	29.62	41.38	1.99	0.02	0.23	1.46	0.19	0.05	4.86	0.06	0.00
Mud	%	2.56	3.42	2.72	2.46	3.92	2.09	2.02	44.39	1.47	0.36	0.67	2.22	1.10	1.08	2.43	0.79	0.32
Total organic content	%	0.31	0.31	0.94	0.29	0.54	0.45	0.43	7.00	0.24	0.12	0.17	0.37	0.37	0.61	0.40	0.22	0.17
Aluminium	$\text{mg}\cdot\text{g}^{-1}$	3.52	1.98	2.95	1.71	2.54	5.63	7.34	11.01	3.78	2.08	1.93	3.10	1.86	1.26	2.31	0.42	1.26
Iron	$\text{mg}\cdot\text{g}^{-1}$	2.80	1.54	3.21	2.00	2.17	4.81	8.31	7.79	3.28	2.37	1.79	5.95	1.47	1.25	2.71	0.70	1.10
Arsenic	$\mu\text{g}\cdot\text{g}^{-1}$	1.83	1.84	<1.0	1.90	1.83	3.54	5.65	7.96	3.60	1.27	<1.0	2.94	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	$\mu\text{g}\cdot\text{g}^{-1}$	10.50	14.30	29.51	9.80	16.00	62.61	51.10	65.56	22.65	13.30	15.51	62.80	32.40	25.80	34.00	3.89	15.10
Beryllium	$\mu\text{g}\cdot\text{g}^{-1}$	<0.1	<0.1	0.15	<0.1	0.14	0.28	0.17	0.45	0.37	0.19	0.13	0.23	0.21	0.12	0.14	<0.1	0.13
Cadmium	$\mu\text{g}\cdot\text{g}^{-1}$	0.17	0.15	0.18	0.12	0.20	0.23	0.11	0.43	0.15	0.11	0.11	0.22	0.12	0.12	0.13	0.01	0.05
Cobalt	$\mu\text{g}\cdot\text{g}^{-1}$	0.88	<0.50	0.82	<0.50	<0.50	1.05	1.07	1.75	0.69	<0.50	0.50	0.69	<0.50	<0.50	<0.50	<0.50	<0.50
Copper	$\mu\text{g}\cdot\text{g}^{-1}$	1.73	1.07	1.33	0.75	1.57	2.97	21.10	5.10	2.11	1.35	<0.50	3.36	1.00	0.44	3.36	0.02	0.40
Chromium	$\mu\text{g}\cdot\text{g}^{-1}$	8.97	4.67	6.62	5.37	4.97	13.32	10.10	25.82	9.17	3.15	3.12	15.66	4.47	3.28	5.26	0.25	0.48
Manganese	$\mu\text{g}\cdot\text{g}^{-1}$	35.90	27.40	28.43	35.00	26.00	49.43	70.90	63.93	31.00	22.30	20.03	15.61	14.40	11.30	15.61	4.10	8.02
Mercury	$\mu\text{g}\cdot\text{g}^{-1}$	0.02	<0.01	<0.01	<0.01	0.01	0.05	0.05	0.09	<0.01	0.01	<0.01	0.02	0.06	<0.01	<0.01	<0.01	<0.01
Nickel	$\mu\text{g}\cdot\text{g}^{-1}$	3.19	0.83	2.87	1.05	2.28	4.40	4.58	8.62	3.32	1.52	1.38	2.99	1.58	1.82	1.55	0.13	1.43
Lead	$\mu\text{g}\cdot\text{g}^{-1}$	5.63	5.01	4.97	3.91	4.78	10.13	12.70	35.42	7.33	6.26	2.56	8.78	<2.05	<2.05	5.39	<2.05	<2.05
Vanadium	$\mu\text{g}\cdot\text{g}^{-1}$	5.01	3.70	5.94	3.42	4.73	10.80	10.80	17.20	6.71	5.27	3.37	9.49	3.42	3.13	4.82	1.81	2.21
Zinc	$\mu\text{g}\cdot\text{g}^{-1}$	9.20	5.70	9.13	5.10	6.91	15.43	25.90	25.38	9.70	11.10	5.69	16.20	6.59	4.50	8.24	1.85	3.56
2-Chlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
2-Methylphenol	$\mu\text{g}\cdot\text{g}^{-1}$	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
3- and 4-Methylphenol	$\mu\text{g}\cdot\text{g}^{-1}$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	ND	ND

2-Nitrophenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
2,4-Dimethylphenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
2,4-Dichlorophenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
2,6-Dichlorophenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
4-Chloro-3-methylphenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
2,4,6-Trichlorophenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
2,4,5-Trichlorophenol	µg.g ⁻¹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	<0.50	ND	ND	<0.50	<0.50	<0.50	<0.50	ND	ND
Pentachlorophenol	µg.g ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
TPH (C10 - C14)	µg.g ⁻¹	4.0	5.0	4.0	<3.0	3.0	<3.0	<3.0	ND	<3.0	ND	ND	<3.0	<3.0	<3.0	<3.0	ND	ND
TPH (C15 - C28)	µg.g ⁻¹	6.0	12.0	12.0	5.0	17.0	18.0	3.0	ND	14.0	ND	ND	6.0	<3.0	5.0	<3.0	ND	ND
TPH (C29 - C36)	µg.g ⁻¹	<5.0	7.0	10.0	<5.0	8.0	12.0	<5.0	ND	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	ND	ND
TRH (C10 - C16)	µg.g ⁻¹	<3.0	4.0	4.0	<3.0	<3.0	<3.0	<3.0	ND	<3.0	ND	ND	<3.0	<3.0	<3.0	<3.0	ND	ND
TRH (C16 - C34)	µg.g ⁻¹	9.0	17.0	18.0	8.0	22.0	24.0	5.0	ND	16.0	ND	ND	7.0	<3.0	6.0	<3.0	ND	ND
TRH (C34 - C40)	µg.g ⁻¹	<5.0	<5.0	8.0	<5.0	6.0	10.0	<5.0	ND	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	ND	ND
Naphthalene	µg.g ⁻¹	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	ND	ND
2-Methylnaphthalene	µg.g ⁻¹	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	ND	ND
Acenaphthylene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Acenaphthene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Fluorene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Phenanthrene	µg.g ⁻¹	<4.0	<4.0	5.0	<4.0	<4.0	9.0	<4.0	ND	5.0	ND	ND	7.0	6.0	<4.0	<4.0	ND	ND
Anthracene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Fluoranthene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	6.0	<4.0	ND	<4.0	ND	ND	<4.0	9.0	<4.0	<4.0	ND	ND
Pyrene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	6.0	<4.0	ND	<4.0	ND	ND	7.0	8.0	<4.0	<4.0	ND	ND
Benz(a)anthracene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	4.0	<4.0	<4.0	ND	ND
Chrysene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Benzo(b+j)fluoranthene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	6.0	<4.0	ND	<4.0	ND	ND	<4.0	4.0	<4.0	<4.0	ND	ND
Benzo(k)fluoranthene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Benzo(e)pyrene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Benzo(a)pyrene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Perylene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Benzo(g,h,i)perylene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	4	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Dibenz(a,h)anthracene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Indeno(1,2,3-cd)pyrene	µg.g ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	<4.0	ND	ND	<4.0	<4.0	<4.0	<4.0	ND	ND
Coronene	µg.g ⁻¹	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	ND	ND
PCB 8	µg.g ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 18	µg.g ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 28	µg.g ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 44	µg.g ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND

PCB 52	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 66	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 77	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 101	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 105	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 118	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 126	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 128	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 138	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 153	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 169	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 170	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 180	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 187	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 195	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 206	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
PCB 209	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	<2.0	ND	ND	<2.0	<2.0	<2.0	<2.0	ND	ND
		Camps Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	Hout Bay	
Parameter	Unit	CB7	HB1	HB2	HB3	HB4	HB5	HB6	HB7	HB8	HB9	HB10	HB11	HB12	HB13	HB14	HB15	
Gravel	%	0.09	0.47	0.00	0.93	0.12	0.07	21.88	11.06	12.67	0.05	15.68	0.09	0.62	0.00	0.15	2.36	
Very coarse-grained sand	%	2.89	0.28	0.93	0.15	0.63	0.38	43.75	31.94	11.38	0.44	34.59	2.08	5.53	0.07	2.57	20.96	
Coarse-grained sand	%	48.53	0.28	3.67	0.21	8.74	0.91	28.37	40.97	31.73	3.33	30.00	30.70	29.53	1.27	8.63	53.22	
Medium-grained sand	%	47.25	5.87	17.46	20.98	64.38	5.10	3.48	12.63	36.30	80.93	17.89	63.59	53.82	38.04	59.84	22.32	
Fine-grained sand	%	0.28	27.35	17.62	54.14	22.08	65.26	0.70	1.28	4.41	12.31	0.54	2.02	8.17	49.83	28.04	1.02	
Very fine-grained sand	%	0.00	15.48	10.45	16.86	2.91	22.87	0.20	0.31	1.88	1.30	0.11	0.46	0.81	9.01	0.67	0.06	
Mud	%	0.26	4.52	5.17	1.50	0.30	1.24	0.59	0.58	0.34	0.57	0.28	0.17	0.35	0.32	0.02	0.06	
Total organic content	$\text{mg}\cdot\text{g}^{-1}$	0.81	10.80	7.90	3.22	1.75	3.09	1.51	1.68	2.00	1.57	2.73	1.76	1.69	2.33	1.48	3.03	
Aluminium	$\text{mg}\cdot\text{g}^{-1}$	0.90	7.53	5.86	2.96	2.24	2.72	1.41	1.60	1.66	1.28	1.81	1.94	1.58	1.59	1.20	2.31	
Iron	$\mu\text{g}\cdot\text{g}^{-1}$	<1.0	9.63	5.57	1.78	<1.0	1.57	<1.0	<1.0	<1.0	<1.0	1.12	<1.0	<1.0	1.57	<1.0	1.62	
Arsenic	$\mu\text{g}\cdot\text{g}^{-1}$	11.45	74.20	67.20	34.70	24.40	50.00	86.25	72.70	74.80	36.40	44.60	53.90	54.90	35.90	39.40	9.20	
Barium	$\mu\text{g}\cdot\text{g}^{-1}$	0.11	0.51	0.38	<0.1	0.10	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	0.17	<0.1	0.16	0.10	0.21	
Beryllium	$\mu\text{g}\cdot\text{g}^{-1}$	0.05	0.97	0.81	0.15	0.07	0.18	0.15	0.15	0.14	0.11	0.10	0.11	0.11	0.16	0.13	0.10	
Cadmium	$\mu\text{g}\cdot\text{g}^{-1}$	<0.50	1.78	1.36	0.68	<0.50	0.75	<0.50	<0.50	<0.50	0.53	<0.50	<0.50	0.52	<0.50	<0.50	1.18	
Cobalt	$\mu\text{g}\cdot\text{g}^{-1}$	0.27	103.93	79.63	1.75	0.79	1.13	0.79	0.75	0.63	0.59	1.09	0.64	0.50	0.91	0.38	12.83	
Copper	$\mu\text{g}\cdot\text{g}^{-1}$	1.36	41.26	18.86	5.63	1.86	7.06	3.14	3.34	2.86	2.32	5.32	3.57	1.95	2.34	0.54	5.18	
Chromium	$\mu\text{g}\cdot\text{g}^{-1}$	5.71	37.71	32.91	17.30	15.70	21.10	32.25	16.70	15.00	11.70	17.10	47.01	31.30	16.21	12.41	13.91	
Manganese	$\mu\text{g}\cdot\text{g}^{-1}$	<0.01	0.08	0.07	0.02	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

Mercury	$\mu\text{g}\cdot\text{g}^{-1}$	2.77	9.21	6.04	2.12	0.65	1.62	0.93	0.66	0.76	0.97	1.20	1.81	1.09	1.18	1.18	22.00	
Nickel	$\mu\text{g}\cdot\text{g}^{-1}$	<2.0.5	20.78	14.48	7.96	<2.0.5	7.88	<2.0.5	<2.0.5	<2.0.5	<2.0.5	6.47	<2.0.5	<2.0.5	<2.0.5	<2.0.5	8.28	
Lead	$\mu\text{g}\cdot\text{g}^{-1}$	2.27	26.79	17.89	4.41	2.76	4.14	4.28	3.53	3.36	1.71	3.23	4.75	3.17	2.90	1.74	3.42	
Vanadium	$\mu\text{g}\cdot\text{g}^{-1}$	3.03	152.00	106.00	9.20	6.73	8.60	16.00	5.85	5.60	3.93	7.90	6.08	4.64	7.50	4.86	70.10	
Zinc	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2-Chlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2-Methylphenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	ND	
3- and 4-Methylphenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2-Nitrophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2,4-Dimethylphenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2,4-Dichlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2,6-Dichlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
4-Chloro-3-methylphenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2,4,6-Trichlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND	ND	
2,4,5-Trichlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	ND	ND	ND	
Pentachlorophenol	$\mu\text{g}\cdot\text{g}^{-1}$	ND	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	ND	ND	ND	
TPH (C10 - C14)	$\mu\text{g}\cdot\text{g}^{-1}$	ND	415.0	232.0	11.0	<3.0	7.0	<3.0	9.0	<3.0	<3.0	<3.0	6.0	8.0	ND	ND	ND	
TPH (C15 - C28)	$\mu\text{g}\cdot\text{g}^{-1}$	ND	255.0	140.0	5.0	<5.0	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	ND	
TPH (C29 - C36)	$\mu\text{g}\cdot\text{g}^{-1}$	ND	13.0	10.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	ND	ND	ND	
TRH (C10 - C16)	$\mu\text{g}\cdot\text{g}^{-1}$	ND	602.0	328.0	14.0	<3.0	10.0	<3.0	10.0	<3.0	<3.0	<3.0	6.0	9.0	ND	ND	ND	
TRH (C16 - C34)	$\mu\text{g}\cdot\text{g}^{-1}$	ND	163.0	82.0	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	ND	
TRH (C34 - C40)	$\mu\text{g}\cdot\text{g}^{-1}$	ND	31.0	20.0	10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	ND	
Naphthalene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	33.0	11.0	12.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	ND	
2-Methylnaphthalene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	6.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Acenaphthylene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Acenaphthene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	17.0	6.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Fluorene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	129.0	40.0	18.0	<4.0	<4.0	<4.0	9.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Phenanthrene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	26.0	6.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Anthracene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	102.0	34.0	6.0	<4.0	<4.0	<4.0	5.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Fluoranthene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	98.0	40.0	6.0	<4.0	<4.0	<4.0	7.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Pyrene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	67.0	28.0	4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Benz(a)anthracene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	74.0	27.0	6.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Chrysene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	64.0	32.0	4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Benzo(b+j)fluoranthene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	20.0	7.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Benzo(k)fluoranthene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	40.0	19.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Benzo(e)pyrene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	50.0	20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Benzo(a)pyrene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	13.0	6.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	
Perylene	$\mu\text{g}\cdot\text{g}^{-1}$	ND	39.0	20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	ND	ND	ND	

[illegible]

Appendix 5. Results of analyses on the tissue of west coast rock lobsters and black mussels collected along the Cape Peninsula of Cape Town in 2016.

		Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Mussel	Mussel	Mussel	Mussel	Mussel	Mussel	Mussel	Mussel
	Site	C1	C2	C3	C4	C5	C6	C7	Store	M1	M2	M3	M4	M5	M6	M7	M8
Number of individuals		3	3	3	3	2	3	3	5	13	11	15	15	15	12	14	14
Total Length	mm	210.0	280.3	260.5	257.0	280.5	210.3	225.3	-	79.7	80.4	78.9	78.2	79.2	80.6	79.5	78.3
Carapace Length	mm	92.0	124.0	125.0	118.7	114.5	100.0	102.7	-	27.9	31.8	23.8	22.8	23.6	27.0	27.2	25.0
Crayfish Tail Length	mm	91.0	111.0	95.5	102.0	102.5	95.0	92.7	98.0	-	-	-	-	-	-	-	-
Mass	g	268.8	690.4	597.3	363.3	632.8	293.3	330.8	-	-	-	-	-	-	-	--	-
Moisture	%	76.5	75.5	80.5	81.5	82.5	84.0	75.5	81.0	92.5	90.0	91.5	91.5	92.0	84.5	91.0	91.5
Aluminium	mg.kg ⁻¹	7.7	8.1	7.1	8.7	7.7	11.3	11.1	8.8	130.9	104.3	80.1	88.4	46.3	31.9	83.3	45.0
Iron	mg.kg ⁻¹	6.4	4.7	3.8	4.6	5.0	5.4	7.5	6.8	182	158	133	142	285	54	171	89
Arsenic	mg.kg ⁻¹	35.3	23.1	19.5	13.9	20.1	25.8	22.0	30.0	7.2	7.4	8.4	8.3	9.2	8.3	18.0	9.2
Cadmium	mg.kg ⁻¹	0.19	<0.10	<0.10	0.10	<0.10	0.13	<0.10	0.13	8.35	8.50	8.93	7.75	13.69	0.62	1.94	5.32
Copper	mg.kg ⁻¹	24.0	19.6	13.0	16.3	17.0	21.2	18.9	27.1	3.4	3.8	2.4	2.4	2.9	2.2	26.7	2.2
Chromium	mg.kg ⁻¹	0.3	0.2	0.4	0.3	0.2	0.3	0.6	0.2	1.2	1.2	1.4	1.4	1.6	0.4	1.2	1.0
Managnese	mg.kg ⁻¹	1.1	0.8	0.6	0.8	1.1	0.9	0.8	0.9	2.1	2.1	2.0	2.0	1.6	6.1	2.3	1.5
Mercury	mg.kg ⁻¹	0.31	0.32	0.32	0.24	0.29	0.37	0.31	0.39	0.06	0.06	0.06	0.05	0.07	0.06	0.11	0.06
Nicjkle	mg.kg ⁻¹	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	1.0	0.9	0.9	1.1	0.6	0.8	0.8
Lead	mg.kg ⁻¹	0.1	<0.1	0.1	0.4	<0.1	<0.1	0.2	<0.1	2.2	1.6	1.5	1.5	1.5	1.3	1.7	1.3
Seleneium	mg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	2.9	<2.5	2.8	<2.5
Zinc	mg.kg ⁻¹	70	77	81	79	82	72	68	66	166	174	159	172	172	62	347	146
Benzo(c)fluorene	mg.kg ⁻¹	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.02	<0.02	<0.002
Benzo(a)anthracene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0022	<0.001	<0.001	<0.001	<0.001	0.0060	0.0278	<0.001
Cyclopenta(cd)pyrene	mg.kg ⁻¹	0.0020	0.0014	<0.001	0.0019	0.0026	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.01	<0.025	<0.001
Chrysene	mg.kg ⁻¹	0.0034	0.0011	<0.001	0.0018	0.0020	0.0012	<0.001	<0.001	0.0044	0.0024	0.0050	0.0039	0.0086	0.0189	0.0893	0.0052
5-Methylchrysene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Benzo(b)fluoranthene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0029	<0.001	<0.001	<0.001	<0.001	0.0055	0.0245	<0.001
Benzo(k)fluoranthene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	0.0022	0.0091	<0.001
Benzo(j)fluoranthene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.001	0.0018	0.0088	<0.001
Benzo(a)pyrene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	0.0025	<0.001
Indeno(1,2,3-cd)pyrene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	0.0016	0.0040	<0.001
Dibenzo(a,h)anthracene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(ghi)perylene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0026	0.0020	0.0014	0.0011	0.0011	0.0030	0.0071	<0.001
Dibenzo(a,l)pyrene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,e)pyrene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,i)pyrene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)pyrene	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

		Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Mussel	Mussel	Mussel	Mussel	Mussel	Mussel	Mussel	Mussel
	Site	C1	C2	C3	C4	C5	C6	C7	Store	M1	M2	M3	M4	M5	M6	M7	M8
PCB 52	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 101	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 118	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 137	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	0.001	0.001	0.003	<0.001
PCB 153	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001	0.001	0.002	0.001	0.003	<0.001
PCB 180	mg.kg ⁻¹	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carprofen	µg.kg ⁻¹	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Diclofenac	µg.kg ⁻¹	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenylbutazone	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Fenbufen	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Firocoxib	µg.kg ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Flufenamic acid	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Flunixin	µg.kg ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Foxim	µg.kg ⁻¹	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ibuprofen	µg.kg ⁻¹	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Indoprofen	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Ketoprofen	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Meclofenamic acid	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Mefenamic acid	µg.kg ⁻¹	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Meloxicam	µg.kg ⁻¹	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naproxen	µg.kg ⁻¹	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Niflumic acid	µg.kg ⁻¹	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
OH-flunixin	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Oxyphenylbutazone	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Piroxicam	µg.kg ⁻¹	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Propyphenazone	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Salicylate	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Tolfenamic acid	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Tolmetin	µg.kg ⁻¹	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vedaprofen	µg.kg ⁻¹	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0