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Appendix 1

Mean measured pore-water quality characteristics for sediments samples from Waukegan Harbor

Site	pH	Alkalinity (mg/L)	Hardness (mg/L)	DO (mg/L)	Conductivity (umho @25°C)	Ammonia (mg/L)	Unionized Ammonia (mg/L)	Total Sulfide (mg/L)	Hydrogen Sulfide (mg/L)
Control	8.00	210	236	9.6	599	0.39	0.002	<0.001	<0.001
WH-01	7.32	466	342	4.4	1254	63.00	0.065	0.327	0.097
WH-02	7.38	300	296	3.3	710	13.00	0.016	0.008	0.002
WH-03	7.28	336	300	3.7	746	12.00	0.011	0.004	0.001
WH-04	7.48	250	280	4.6	684	9.90	0.015	0.008	0.002
WH-05	7.47	248	270	5.0	639	6.30	0.009	0.006	0.001
WH-06	7.25	320	298	3.2	754	10.00	0.009	0.013	0.004
WH-07	7.55	388	366	4.0	810	6.60	0.012	0.005	0.001
WH-08	7.47	382	334	3.1	799	12.00	0.018	0.011	0.002
WH-09	7.69	300	304	5.2	719	7.90	0.019	0.015	0.002
WH-10	7.61	228	270	4.5	605	4.30	0.009	0.029	0.005
WH-11	7.43	250	280	3.9	677	9.80	0.013	0.033	0.008
WH-11R	7.59	282	256	4.5	658	11.00	0.021	0.016	0.003
WH-12	7.58	418	380	3.3	908	14.00	0.026	0.095	0.018
WH-13	7.38	326	302	3.6	758	13.00	0.016	0.006	0.002
WH-14	7.00	390	ND	1.6	3090	46.00	0.023	0.048	0.022
WH-15	7.44	250	270	4.5	643	8.40	0.012	0.010	0.002
WH-16	7.41	230	276	3.9	675	8.20	0.010	0.043	0.011
WH-17	7.27	290	280	3.3	688	11.00	0.010	0.027	0.009
WH-18	7.22	344	302	3.0	807	16.00	0.013	0.019	0.007
WH-19	7.23	320	330	3.6	828	13.00	0.011	0.039	0.013

ND = Not Determined

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Appendix 2 Mean measured overlying water quality characteristics for exposures with sediment samples from Waukegan Harbor through Day 28

Site	pH	Alkalinity (mg/L)	Hardness (mg/L)	DO (mg/L)	Conductivity (umho @25°C)	Ammonia (mg/L)	Unionized Ammonia (mg/L)
Control	8.14	292	307	6.11	644	0.25	0.002
WH-01	8.13	260	311	6.64	632	2.68	0.018
WH-02	8.25	269	295	6.20	642	0.93	0.008
WH-03	8.28	265	293	5.58	641	0.88	0.008
WH-04	8.30	262	298	6.38	641	0.88	0.009
WH-05	8.26	260	311	6.72	632	0.39	0.004
WH-06	8.40	258	292	6.32	642	0.66	0.008
WH-07	8.36	270	293	6.52	645	0.46	0.005
WH-08	8.18	262	292	5.59	635	0.75	0.006
WH-09	8.23	265	295	6.48	638	0.51	0.004
WH-10	8.25	255	282	6.63	641	0.47	0.004
WH-11	8.25	268	296	6.72	641	0.53	0.005
WH-11R	8.27	261	291	6.32	640	0.80	0.004
WH-12	8.02	263	307	4.19	643	1.31	0.011
WH-13	8.24	262	293	6.16	631	0.85	0.005
WH-14	8.11	264	325	5.38	685	2.81	0.026
WH-15	8.27	258	295	6.70	627	0.65	0.005
WH-16	8.23	260	304	5.92	641	0.70	0.006
WH-17	8.26	261	293	6.12	638	0.75	0.007
WH-18	8.28	265	297	6.42	638	0.95	0.009
WH-19	8.27	262	288	6.18	645	1.05	0.010

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Appendix 3 List of polycyclic aromatic hydrocarbons (PAHs) and organochlorines (OCs) analyzed for in the sediment samples from Waukegan Harbor

Polycyclic aromatic hydrocarbons

1. Naphthalene
2. 1-methylnaphthalene
3. 2,6-dimethylnaphthalene
4. Acenaphthene
5. Fluorene
6. Phenanthrene
7. 1,-methylphenanthrene
8. Pyrene
9. Chrysene
10. 1,2-Benzanthracene
11. Perylene
12. Indeno(1,2,3-cd)pyrene
13. Benzo(g,h,i)perylene
14. 2-methylnaphthalene
15. Biphenyl
16. Acenaphthalene
17. 2,3,5-trimethylnaphthalene
18. Dibenzothiophene
19. Anthracene
20. Fluoranthene
21. Benzo(b)fluoranthene
22. Benzo(k)fluoranthene
23. Benzo(e)pyrene
24. Benzo(a)pyrene
25. 1,2,5,6-dibenzanthracene

Organochlorines

1. Lindane
2. Heptachlor
3. Aldrin
4. Heptachlor epoxide
5. Total PCBs
6. p,p'-DDE
7. p,p' DDT
8. DDT
9. Hexachlorobenzene
10. Phosphorus -P
11. Kjeldahl
12. Chlordane cis isomer
13. Chlordane trans isomer
14. Total chlordane
15. Dieldrin
16. Endrin
17. p,p'-DDD
18. Methoxychlor
19. alpha BHC

Appendix 4

Concentrations (Fg/g, dry weight) of total PCBs, polynuclear aromatic hydrocarbons (PAHs), and percent lipids in oligochaete tissue samples from sediment and CERC cultures (Arch-1, Arch-2 and Arch-3)

Chemical	S A M P L E										
	Arch-1	Arch-2	Arch-3	Control	WH-01	WH-02	Naive ¹ WH-02	WH-03	Native ¹ WH-03	WH-06	WH-07
Total PCBs	<0.10	<0.10	<0.10	<0.15	2.30	1.80	<0.10	0.24	<0.10	1.10	4.70
Naphthalene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Acenphthalene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Acenphthene	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60
Fluorene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Phenanthrene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Anthracene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Fluoranthene	<0.96	<0.96	1.26	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Pyrene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Benzo(a)anthracene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Chrysene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Benzo(b)fluoranthene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Benzo(k)fluoranthene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Benzo(a)pyrene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Benzo(a,h)anthracene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Benzo(g,h,i)perylene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Indeno(1,2,3-c,d)pyrene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Lipids (%)	2.30	3.40	3.40	1.40	1.90	7.80	5.30	1.90	3.60	1.60	0.98

¹ oligochaetes collected out of sediment from Waukegan Harbor

Appendix 4

Concentrations (Fg/g, dry weight) of total PCBs, polynuclear aromatic hydrocarbons (PAHs), and percent lipids in oligochaete tissue samples from sediment and CERC cultures (Arch-1, Arch-2 and Arch-3)

Chemical	S A M P L E										
	WH-10	WH-11	WH-11R	WH-12	Naive ¹ WH-12	WH-13	WH-14	Naive ¹ WH-14	WH-17	WH-18	WH-19
Total PCBs	2.40	1.20	1.30	4.60	0.60	2.40	1.90	1.20	1.90	0.91	0.91
Naphthalene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Acenphthalene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80
Acenphthene	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60	<9.60
Fluorene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Phenanthrene	<4.80	<4.80	<4.80	<4.80	<4.80	0.93	<4.80	<4.80	<4.80	<0.48	<0.48
Anthracene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Fluoranthene	<0.96	<0.96	<0.96	2.00	1.00	<0.96	<0.96	<0.96	<0.96	<0.96	<2.00
Pyrene	<4.80	<4.80	<0.48	0.85	0.87	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Benzo(a)anthracene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Chrysene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Benzo(b)fluoranthene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Benzo(k)fluoranthene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Benzo(a)pyrene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Benzo(a,h)anthracene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Benzo(g,h,i)perylene	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96
Indeno(1,2,3-c,d)pyrene	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<4.80	<0.48	<0.48
Lipids (%)	1.40	1.90	1.70	2.40	2.00	1.70	1.30	2.40	1.40	1.40	0.73

¹ oligochaetes collected out of sediment from Waukegan Harbor

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
Archive	NA	1	1.23	FS	B	7	4.68
Archive	NA	2	1.25	FS	B	8	5.30
Archive	NA	3	1.46	FS	B	9	4.37
Archive	NA	4	1.50	FS	B	10	3.91
Archive	NA	5	1.26	FS	C	1	4.52
Archive	NA	6	1.30	FS	C	2	4.87
Archive	NA	7	1.30	FS	C	3	4.22
Archive	NA	8	1.26	FS	C	4	4.62
Archive	NA	9	1.36	FS	C	5	5.32
Archive	NA	10	1.46	FS	C	6	4.39
Archive	NA	11	1.27	FS	C	7	4.16
Archive	NA	12	1.45	FS	C	8	4.14
Archive	NA	13	1.14	FS	C	9	4.66
Archive	NA	14	1.47	FS	C	10	3.85
Archive	NA	15	1.32	FS	D	1	3.75
Archive	NA	16	1.15	FS	D	2	4.39
Archive	NA	17	1.23	FS	D	3	4.14
Archive	NA	18	1.35	FS	D	4	4.61
Archive	NA	19	1.35	FS	D	5	4.21
Archive	NA	20	1.31	FS	D	6	4.27
FS	A	1	5.24	FS	D	7	4.42
FS	A	2	4.66	FS	D	8	4.65
FS	A	3	6.04	FS	D	9	4.93
FS	A	4	5.06	FS	D	10	4.73
FS	A	5	5.24	WH-01	A	1	4.06
FS	A	6	5.06	WH-01	A	2	3.92
FS	A	7	5.53	WH-01	A	3	3.94
FS	A	8	5.09	WH-01	A	4	3.63
FS	A	9	4.92	WH-01	A	5	3.86
FS	A	10	4.76	WH-01	A	6	4.14
FS	A	11	4.78	WH-01	A	7	3.74
FS	B	1	4.81	WH-01	B	1	3.34
FS	B	2	4.02	WH-01	B	2	3.62
FS	B	3	4.37	WH-01	B	3	3.11
FS	B	4	4.58	WH-01	B	4	2.86
FS	B	5	4.21	WH-01	B	5	4.02
FS	B	6	4.39	WH-01	C	1	4.19

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (**rep**), animal (**individual animal number**), and length (**mean length for individual animal in mm**). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-01	C	2	3.54	WH-02	D	1	3.52
WH-01	C	3	4.30	WH-02	D	2	3.60
WH-01	C	4	4.28	WH-02	D	3	3.61
WH-01	C	5	3.75	WH-02	D	4	4.15
WH-01	C	6	3.82	WH-02	D	5	4.04
WH-01	D	1	4.06	WH-02	D	6	3.58
WH-01	D	2	3.58	WH-02	D	7	3.45
WH-01	D	3	3.66	WH-02	D	8	3.98
WH-01	D	4	3.62	WH-02	D	9	3.60
WH-01	D	5	4.08	WH-02	D	10	4.06
WH-01	D	6	4.05	WH-03	A	1	3.89
WH-01	D	7	3.84	WH-03	A	2	4.51
WH-02	A	1	3.90	WH-03	A	3	3.98
WH-02	A	2	3.85	WH-03	A	4	4.11
WH-02	A	3	3.99	WH-03	A	5	3.51
WH-02	A	4	4.08	WH-03	A	6	3.46
WH-02	A	5	3.54	WH-03	A	7	4.37
WH-02	A	6	4.12	WH-03	A	8	4.51
WH-02	A	7	4.18	WH-03	A	9	3.98
WH-02	A	8	3.58	WH-03	B	1	3.53
WH-02	B	1	3.56	WH-03	B	2	3.66
WH-02	B	2	3.15	WH-03	B	3	2.98
WH-02	B	3	2.98	WH-03	B	4	3.97
WH-02	B	4	3.07	WH-03	B	5	3.81
WH-02	B	5	2.96	WH-03	B	6	3.85
WH-02	B	6	3.35	WH-03	B	7	3.50
WH-02	B	7	3.12	WH-03	B	8	3.89
WH-02	B	8	3.27	WH-03	C	1	3.65
WH-02	B	9	3.42	WH-03	C	2	3.58
WH-02	B	10	3.14	WH-03	C	3	3.80
WH-02	C	1	3.74	WH-03	C	4	3.63
WH-02	C	2	3.66	WH-03	C	5	3.85
WH-02	C	3	3.25	WH-03	C	6	3.87
WH-02	C	4	3.78	WH-03	C	7	3.68
WH-02	C	5	3.60	WH-03	C	8	3.73
WH-02	C	6	3.51	WH-03	D	1	3.57
WH-02	C	7	3.83	WH-03	D	2	3.83
WH-02	C	8	3.79	WH-03	D	3	3.82

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-03	D	4	3.61	WH-04	D	6	3.86
WH-03	D	5	3.40	WH-04	D	7	3.75
WH-03	D	6	3.44	WH-04	D	8	3.96
WH-03	D	7	3.61	WH-04	D	9	4.01
WH-03	D	8	3.69	WH-04	D	10	3.94
WH-03	D	9	3.64	WH-05	A	1	3.98
WH-03	D	10	4.08	WH-05	A	2	3.66
WH-04	A	1	3.63	WH-05	A	3	4.53
WH-04	A	2	3.67	WH-05	A	4	3.72
WH-04	A	3	3.45	WH-05	A	5	3.67
WH-04	A	4	4.06	WH-05	A	6	3.47
WH-04	A	5	4.36	WH-05	A	7	3.73
WH-04	A	6	4.10	WH-05	A	8	3.26
WH-04	A	7	4.16	WH-05	A	9	4.29
WH-04	B	1	3.92	WH-05	A	10	3.88
WH-04	B	2	4.47	WH-05	B	1	4.01
WH-04	B	3	3.80	WH-05	B	2	4.13
WH-04	B	4	3.69	WH-05	B	3	3.96
WH-04	B	5	4.23	WH-05	B	4	3.33
WH-04	B	6	3.37	WH-05	B	5	3.91
WH-04	B	7	4.42	WH-05	B	6	3.99
WH-04	B	8	4.29	WH-05	B	7	3.76
WH-04	B	9	4.28	WH-05	B	8	4.09
WH-04	B	10	3.85	WH-05	B	9	4.34
WH-04	C	1	4.53	WH-05	B	10	3.81
WH-04	C	2	4.22	WH-05	C	1	3.85
WH-04	C	3	4.22	WH-05	C	2	3.74
WH-04	C	4	3.38	WH-05	C	3	3.44
WH-04	C	5	3.95	WH-05	C	4	3.64
WH-04	C	6	4.34	WH-05	C	5	4.43
WH-04	C	7	4.06	WH-05	C	6	4.11
WH-04	C	8	3.97	WH-05	C	7	3.90
WH-04	C	9	4.13	WH-05	C	8	3.73
WH-04	D	1	4.26	WH-05	C	9	4.16
WH-04	D	2	3.17	WH-05	D	1	3.72
WH-04	D	3	3.79	WH-05	D	2	4.03
WH-04	D	4	3.90	WH-05	D	3	4.42
WH-04	D	5	3.81	WH-05	D	4	3.69

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-05	D	5	4.01	WH-06	D	1	3.38
WH-05	D	6	3.89	WH-06	D	2	3.20
WH-05	D	7	4.03	WH-06	D	3	3.47
WH-05	D	8	3.60	WH-06	D	4	3.78
WH-05	D	9	3.93	WH-06	D	5	3.45
WH-05	D	10	3.93	WH-06	D	6	3.47
WH-05	D	11	3.63	WH-06	D	7	4.05
WH-06	A	1	3.72	WH-06	D	8	3.59
WH-06	A	2	3.88	WH-06	D	9	3.93
WH-06	A	3	3.92	WH-06	D	0	3.22
WH-06	A	4	4.06	WH-06	D	11	4.00
WH-06	A	5	3.75	WH-07	A	1	4.08
WH-06	A	6	4.12	WH-07	A	2	3.82
WH-06	A	7	3.59	WH-07	A	3	4.19
WH-06	A	8	3.97	WH-07	A	4	4.14
WH-06	A	9	4.03	WH-07	A	5	4.64
WH-06	A	10	3.72	WH-07	A	6	4.48
WH-06	B	1	3.14	WH-07	A	7	3.99
WH-06	B	2	3.66	WH-07	A	8	3.40
WH-06	B	3	3.71	WH-07	A	9	4.51
WH-06	B	4	3.75	WH-07	A	10	3.72
WH-06	B	5	3.74	WH-07	A	11	4.33
WH-06	B	6	3.37	WH-07	A	12	3.99
WH-06	B	7	3.55	WH-07	A	13	4.03
WH-06	B	8	3.04	WH-07	B	1	4.18
WH-06	B	9	3.26	WH-07	B	2	4.01
WH-06	B	10	3.09	WH-07	B	3	4.21
WH-06	C	1	2.91	WH-07	B	4	4.39
WH-06	C	2	3.78	WH-07	B	5	4.15
WH-06	C	3	3.66	WH-07	B	6	3.90
WH-06	C	4	3.60	WH-07	B	7	3.93
WH-06	C	5	3.82	WH-07	B	8	3.42
WH-06	C	6	4.34	WH-07	B	9	4.69
WH-06	C	7	3.25	WH-07	B	10	4.30
WH-06	C	8	3.15	WH-07	B	11	4.50
WH-06	C	9	3.68	WH-07	C	1	4.25
WH-06	C	10	3.51	WH-07	C	2	4.25

LIST OF APPENDICES

Appendix 5

Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (**rep**), animal (**individual animal number**), and length (**mean length for individual animal in mm**). Archive = amphipod length at start of test.

NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-07	C	3	3.85	WH-08	C	6	4.47
WH-07	C	4	4.07	WH-08	C	7	3.68
WH-07	C	5	4.01	WH-08	C	8	3.57
WH-07	C	6	4.31	WH-08	C	9	4.07
WH-07	C	7	4.14	WH-08	D	1	3.49
WH-07	C	8	4.64	WH-08	D	2	2.94
WH-07	C	9	4.42	WH-08	D	3	3.64
WH-07	C	10	4.15	WH-08	D	4	3.07
WH-07	D	1	3.77	WH-08	D	5	3.18
WH-07	D	2	4.07	WH-08	D	6	3.69
WH-07	D	3	4.24	WH-08	D	7	3.67
WH-07	D	4	4.24	WH-08	D	8	2.62
WH-07	D	5	4.05	WH-09	A	1	3.78
WH-07	D	6	3.76	WH-09	A	2	3.54
WH-07	D	7	4.26	WH-09	A	3	3.16
WH-07	D	8	4.06	WH-09	A	4	3.27
WH-07	D	9	3.76	WH-09	A	5	3.45
WH-07	D	10	4.11	WH-09	A	6	3.44
WH-08	A	1	4.26	WH-09	A	7	3.47
WH-08	A	2	4.32	WH-09	A	8	3.24
WH-08	A	3	3.95	WH-09	A	9	3.10
WH-08	A	4	4.29	WH-09	B	1	3.64
WH-08	A	5	3.87	WH-09	B	2	4.02
WH-08	A	6	2.42	WH-09	B	3	3.16
WH-08	A	7	3.46	WH-09	B	4	3.45
WH-08	B	1	3.65	WH-09	B	5	3.51
WH-08	B	2	4.90	WH-09	B	6	3.46
WH-08	B	3	3.78	WH-09	B	7	3.98
WH-08	B	4	4.43	WH-09	B	8	3.53
WH-08	B	5	3.71	WH-09	B	9	3.44
WH-08	B	6	4.04	WH-09	C	1	3.67
WH-08	B	7	4.64	WH-09	C	2	3.31
WH-08	B	8	4.11	WH-09	C	3	3.88
WH-08	C	1	3.85	WH-09	C	4	3.87
WH-08	C	2	3.54	WH-09	C	5	3.87
WH-08	C	3	3.53	WH-09	C	6	4.14
WH-08	C	4	4.28	WH-09	C	7	4.17
WH-08	C	5	3.55	WH-09	C	8	3.92

LIST OF APPENDICES

Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-09	C	9	4.14	WH-10	C	3	3.46
WH-09	C	10	3.65	WH-10	C	4	3.56
WH-09	C	11	3.56	WH-10	C	5	3.42
WH-09	D	1	3.46	WH-10	C	6	3.42
WH-09	D	2	3.70	WH-10	C	7	3.76
WH-09	D	3	3.64	WH-10	C	8	3.09
WH-09	D	4	3.57	WH-10	C	9	3.77
WH-09	D	5	3.81	WH-10	C	10	3.26
WH-09	D	6	3.68	WH-10	C	11	3.31
WH-09	D	7	3.58	WH-10	C	12	3.34
WH-09	D	8	3.56	WH-10	C	13	3.30
WH-09	D	9	3.18	WH-10	D	1	3.16
WH-09	D	10	3.67	WH-10	D	2	3.28
WH-10	A	1	3.90	WH-10	D	3	3.64
WH-10	A	2	4.00	WH-10	D	4	3.73
WH-10	A	3	3.34	WH-10	D	5	3.78
WH-10	A	4	3.41	WH-10	D	6	3.65
WH-10	A	5	3.38	WH-10	D	7	3.85
WH-10	A	6	3.50	WH-10	D	8	3.81
WH-10	A	7	3.58	WH-10	D	9	3.54
WH-10	A	8	3.78	WH-10	D	10	3.20
WH-10	A	9	4.00	WH-11	A	1	5.18
WH-10	A	10	3.74	WH-11	A	2	3.96
WH-10	A	11	2.99	WH-11	A	3	4.22
WH-10	A	12	3.45	WH-11	A	4	4.22
WH-10	B	1	3.10	WH-11	A	5	4.46
WH-10	B	2	3.58	WH-11	A	6	4.46
WH-10	B	3	2.73	WH-11	A	7	4.49
WH-10	B	4	3.15	WH-11	A	8	4.01
WH-10	B	5	3.18	WH-11	A	9	3.67
WH-10	B	6	3.85	WH-11	A	10	3.64
WH-10	B	7	3.28	WH-11	B	1	3.86
WH-10	B	8	3.09	WH-11	B	2	3.40
WH-10	B	9	3.42	WH-11	B	3	3.72
WH-10	B	10	3.11	WH-11	B	4	3.53
WH-10	C	1	2.85	WH-11	B	5	3.95
WH-10	C	2	3.50	WH-11	B	6	4.62

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-11	B	7	3.55	WH-11R	B	4	3.56
WH-11	B	8	4.18	WH-11R	B	5	4.19
WH-11	B	9	4.43	WH-11R	B	6	4.47
WH-11	B	10	3.93	WH-11R	B	7	4.51
WH-11	C	1	3.74	WH-11R	B	8	3.99
WH-11	C	2	3.75	WH-11R	B	9	3.74
WH-11	C	3	4.40	WH-11R	C	1	3.94
WH-11	C	4	4.21	WH-11R	C	2	3.76
WH-11	C	5	3.12	WH-11R	C	3	3.73
WH-11	C	6	3.96	WH-11R	C	4	3.85
WH-11	C	7	3.57	WH-11R	C	5	3.40
WH-11	C	8	4.42	WH-11R	C	6	4.07
WH-11	C	9	3.74	WH-11R	C	7	3.75
WH-11	C	10	4.46	WH-11R	C	8	3.92
WH-11	C	11	3.50	WH-11R	C	9	3.67
WH-11	D	1	4.30	WH-11R	C	10	3.97
WH-11	D	2	3.94	WH-11R	C	11	3.29
WH-11	D	3	4.13	WH-11R	D	1	3.89
WH-11	D	4	4.36	WH-11R	D	2	3.87
WH-11	D	5	4.21	WH-11R	D	3	3.52
WH-11	D	6	4.01	WH-11R	D	4	3.96
WH-11	D	7	3.55	WH-11R	D	5	4.12
WH-11	D	8	4.32	WH-11R	D	6	4.74
WH-11	D	9	3.81	WH-11R	D	7	4.27
WH-11	D	10	4.47	WH-11R	D	8	4.17
WH-11R	A	1	2.81	WH-11R	D	9	3.98
WH-11R	A	2	3.47	WH-11R	D	10	4.25
WH-11R	A	3	3.79	WH-12	A	1	3.47
WH-11R	A	4	4.03	WH-12	A	2	3.52
WH-11R	A	5	3.84	WH-12	A	3	3.56
WH-11R	A	6	3.60	WH-12	A	4	3.46
WH-11R	A	7	3.28	WH-12	A	5	3.50
WH-11R	A	8	4.28	WH-12	A	6	3.33
WH-11R	A	9	4.15	WH-12	A	7	3.90
WH-11R	A	10	4.16	WH-12	A	8	3.82
WH-11R	B	1	4.06	WH-12	A	9	3.41
WH-11R	B	2	3.81	WH-12	A	10	3.07
WH-11R	B	3	3.86	WH-12	B	1	3.64

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-12	B	2	4.45	WH-13	C	7	4.65
WH-12	B	3	3.69	WH-13	C	8	4.10
WH-12	B	4	3.50	WH-13	D	1	3.84
WH-12	B	5	4.13	WH-13	D	2	3.59
WH-12	B	6	3.67	WH-13	D	3	3.25
WH-12	C	1	3.55	WH-13	D	4	4.06
WH-12	C	2	3.97	WH-13	D	5	4.20
WH-12	C	3	3.97	WH-13	D	6	3.93
WH-12	C	4	3.84	WH-13	D	7	4.11
WH-12	C	5	4.06	WH-13	D	8	3.89
WH-12	D	1	3.93	WH-13	D	9	4.12
WH-12	D	2	4.13	WH-13	D	10	4.02
WH-12	D	3	4.89	WH-13	D	11	4.16
WH-12	D	4	4.28	WH-13	D	12	4.24
WH-13	A	1	4.28	WH-13	D	13	4.18
WH-13	A	2	4.11	WH-14	A	1	4.15
WH-13	A	3	4.34	WH-14	A	2	4.19
WH-13	A	4	4.11	WH-14	A	3	3.97
WH-13	A	5	4.30	WH-14	A	4	4.11
WH-13	A	6	4.68	WH-14	A	5	4.24
WH-13	A	7	4.40	WH-14	A	6	4.00
WH-13	A	8	4.56	WH-14	A	7	3.80
WH-13	A	9	4.25	WH-14	A	8	4.14
WH-13	A	10	4.72	WH-14	A	9	4.16
WH-13	B	1	5.24	WH-14	A	10	4.35
WH-13	B	2	3.91	WH-14	B	1	3.88
WH-13	B	3	4.22	WH-14	B	2	3.98
WH-13	B	4	4.40	WH-14	B	3	3.90
WH-13	B	5	4.39	WH-14	B	4	4.35
WH-13	B	6	4.61	WH-14	B	5	4.03
WH-13	B	7	4.25	WH-14	B	6	4.14
WH-13	C	1	4.38	WH-14	C	1	3.96
WH-13	C	2	4.38	WH-14	C	2	3.54
WH-13	C	3	4.01	WH-14	C	3	3.77
WH-13	C	4	4.31	WH-14	C	4	4.47
WH-13	C	5	4.29	WH-14	C	5	3.85
WH-13	C	6	4.30	WH-14	C	6	3.93

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.

NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-14	C	7	3.85	WH-15	C	7	2.82
WH-14	C	8	4.04	WH-15	C	8	3.41
WH-14	C	9	4.55	WH-15	C	9	2.62
WH-14	C	10	3.72	WH-15	C	10	2.91
WH-14	D	1	3.54	WH-15	C	11	2.76
WH-14	D	2	4.38	WH-15	C	12	2.13
WH-14	D	3	3.91	WH-15	D	1	3.73
WH-14	D	4	4.81	WH-15	D	2	4.32
WH-14	D	5	4.44	WH-15	D	3	4.08
WH-14	D	6	4.32	WH-15	D	4	3.53
WH-14	D	7	4.21	WH-15	D	5	4.30
WH-14	D	8	4.07	WH-15	D	6	4.10
WH-14	D	9	4.38	WH-15	D	7	4.27
WH-15	A	1	3.54	WH-15	D	8	3.64
WH-15	A	2	3.98	WH-16	A	1	4.03
WH-15	A	3	3.86	WH-16	A	2	4.17
WH-15	A	4	4.17	WH-16	A	3	4.05
WH-15	A	5	3.75	WH-16	A	4	3.87
WH-15	A	6	4.17	WH-16	A	5	4.10
WH-15	A	7	4.03	WH-16	A	6	3.91
WH-15	A	8	3.93	WH-16	A	7	4.32
WH-15	A	9	3.22	WH-16	A	8	3.86
WH-15	B	1	3.63	WH-16	B	1	3.42
WH-15	B	2	3.19	WH-16	B	2	3.85
WH-15	B	3	4.18	WH-16	B	3	3.46
WH-15	B	4	3.46	WH-16	B	4	3.72
WH-15	B	5	3.65	WH-16	B	5	3.56
WH-15	B	6	3.61	WH-16	B	6	3.79
WH-15	B	7	3.42	WH-16	B	7	3.58
WH-15	B	8	3.71	WH-16	B	8	3.56
WH-15	B	9	3.82	WH-16	B	9	3.79
WH-15	C	1	3.06	WH-16	B	10	4.07
WH-15	C	2	3.18	WH-16	C	1	3.57
WH-15	C	3	3.48	WH-16	C	2	4.33
WH-15	C	4	3.35	WH-16	C	3	4.10
WH-15	C	5	2.90	WH-16	C	4	3.88
WH-15	C	6	2.96	WH-16	C	5	3.13

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-16	C	6	3.84	WH-17	C	5	3.98
WH-16	C	7	4.52	WH-17	C	6	3.70
WH-16	C	8	4.23	WH-17	C	7	3.58
WH-16	C	9	4.20	WH-17	D	1	4.27
WH-16	C	10	3.49	WH-17	D	2	4.30
WH-16	D	1	3.48	WH-17	D	3	4.42
WH-16	D	2	4.38	WH-17	D	4	3.78
WH-16	D	3	3.07	WH-17	D	5	4.36
WH-16	D	4	3.58	WH-17	D	6	4.48
WH-16	D	5	3.51	WH-17	D	7	5.05
WH-16	D	6	3.57	WH-17	D	8	4.29
WH-16	D	7	3.17	WH-17	D	9	4.48
WH-16	D	8	3.26	WH-17	D	10	4.02
WH-17	A	1	4.06	WH-17	D	11	4.65
WH-17	A	2	4.05	WH-18	A	1	3.71
WH-17	A	3	4.13	WH-18	A	2	4.38
WH-17	A	4	4.44	WH-18	A	3	3.53
WH-17	A	5	3.87	WH-18	A	4	3.51
WH-17	A	6	4.43	WH-18	A	5	3.60
WH-17	A	7	3.89	WH-18	A	6	3.65
WH-17	A	8	4.15	WH-18	A	7	4.07
WH-17	A	9	4.22	WH-18	A	8	3.83
WH-17	A	10	4.05	WH-18	A	9	4.46
WH-17	B	1	4.75	WH-18	A	10	4.09
WH-17	B	2	4.92	WH-18	B	1	4.20
WH-17	B	3	4.35	WH-18	B	2	4.38
WH-17	B	4	4.44	WH-18	B	3	3.78
WH-17	B	5	4.32	WH-18	B	4	4.27
WH-17	B	6	4.49	WH-18	B	5	4.28
WH-17	B	7	4.46	WH-18	B	6	3.67
WH-17	B	8	3.57	WH-18	B	7	4.15
WH-17	B	9	4.23	WH-18	B	8	3.61
WH-17	B	10	4.28	WH-18	B	9	4.03
WH-17	C	1	3.45	WH-18	C	1	4.04
WH-17	C	2	3.49	WH-18	C	2	3.97
WH-17	C	3	3.43	WH-18	C	3	3.92
WH-17	C	4	3.88	WH-18	C	4	3.84

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Appendix 5 Day 28 amphipod length data for from sediment samples Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test.
 NA = not applicable.

SAMPLE	REP	ANIMAL	LENGTH	SAMPLE	REP	ANIMAL	LENGTH
WH-18	C	5	4.18	WH-19	B	2	4.60
WH-18	C	6	4.08	WH-19	B	3	4.34
WH-18	C	7	4.25	WH-19	B	4	4.38
WH-18	C	8	4.03	WH-19	B	5	4.11
WH-18	C	9	4.17	WH-19	B	6	4.13
WH-18	C	10	4.14	WH-19	B	7	4.45
WH-18	D	1	4.21	WH-19	B	8	4.04
WH-18	D	2	4.03	WH-19	B	9	3.99
WH-18	D	3	3.85	WH-19	C	1	3.75
WH-18	D	4	3.99	WH-19	C	2	4.07
WH-18	D	5	3.77	WH-19	C	3	3.96
WH-18	D	6	3.84	WH-19	C	4	3.42
WH-18	D	7	4.03	WH-19	C	5	3.42
WH-18	D	8	4.09	WH-19	C	6	3.80
WH-18	D	9	4.28	WH-19	C	7	3.53
WH-18	D	10	3.94	WH-19	C	8	3.58
WH-19	A	1	4.54	WH-19	C	9	4.26
WH-19	A	2	4.16	WH-19	D	1	4.03
WH-19	A	3	4.27	WH-19	D	2	4.19
WH-19	A	4	4.44	WH-19	D	3	4.46
WH-19	A	5	4.30	WH-19	D	4	3.78
WH-19	A	6	4.45	WH-19	D	5	3.92
WH-19	A	7	3.97	WH-19	D	6	4.09
WH-19	A	8	4.63	WH-19	D	7	3.88
WH-19	B	1	4.17	WH-19	D	8	3.96
				WH-19	D	9	4.54

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Appendix 6 Day 28 amphipod weight data for sediment samples from Waukegan Harbor

Replicate (**rep**), and weight (**mean replication weight in mg**). Archive = amphipod weight at the start of test. NA = not applicable.

SAMPLE	REP	WEIGHT	SAMPLE	REP	WEIGHT
Archive	NA	0.02	WH-09	A	0.33
Control	A	0.59	WH-09	B	0.34
Control	B	0.56	WH-09	C	0.40
Control	C	0.43	WH-09	D	0.38
Control	D	0.48	WH-10	A	0.33
WH-01	A	0.40	WH-10	B	0.24
WH-01	B	0.34	WH-10	C	0.29
WH-01	C	0.43	WH-10	D	0.28
WH-01	D	0.37	WH-11	A	0.39
WH-02	A	0.36	WH-11	B	0.34
WH-02	B	0.20	WH-11	C	0.25
WH-02	C	0.34	WH-11	D	0.38
WH-02	D	0.29	WH-11R	A	0.24
WH-03	A	0.32	WH-11R	B	0.33
WH-03	B	0.24	WH-11R	C	0.29
WH-03	C	0.26	WH-11R	D	0.36
WH-03	D	0.24	WH-12	A	0.21
WH-04	A	0.27	WH-12	B	0.23
WH-04	B	0.30	WH-12	C	0.26
WH-04	C	0.36	WH-12	D	0.38
WH-04	D	0.25	WH-13	A	0.36
WH-05	A	0.21	WH-13	B	0.43
WH-05	B	0.36	WH-13	C	0.38
WH-05	C	0.41	WH-13	D	0.28
WH-05	D	0.37	WH-14	A	0.23
WH-06	A	0.31	WH-14	B	0.22
WH-06	B	0.22	WH-14	C	0.25
WH-06	C	0.26	WH-14	D	0.32
WH-06	D	0.22	WH-15	A	0.23
WH-07	A	0.32	WH-15	B	0.28
WH-07	B	0.30	WH-15	C	0.18
WH-07	C	0.38	WH-15	D	0.24
WH-07	D	0.32	WH-16	A	0.31
WH-08	A	0.30	WH-16	B	0.22
WH-08	B	0.45	WH-16	C	0.27
WH-08	C	0.24	WH-16	D	0.20
WH-08	D	0.16	WH-17	A	0.31

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Appendix 6 Day 28 amphipod weight data for sediment samples from Waukegan Harbor

Replicate (**rep**), and weight (**mean replication weight in mg**). Archive = amphipod weight at the start of test. NA = not applicable.

SAMPLE	REP	WEIGHT	SAMPLE	REP	WEIGHT
WH-17	B	0.25	WH-18	D	0.27
WH-17	C	0.19	WH-19	A	0.28
WH-17	D	0.35	WH-19	B	0.21
WH-18	A	0.24	WH-19	C	0.22
WH-18	B	0.26	WH-19	D	0.29
WH-18	C	0.27			

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
Control	E	1	5.635	WH-01	E	1	4.614
Control	E	2	4.871	WH-01	E	2	4.527
Control	E	3	4.972	WH-01	E	3	4.560
Control	E	4	5.027	WH-01	E	4	4.368
Control	E	5	4.947	WH-01	E	5	4.515
Control	E	6	4.525	WH-01	E	6	4.419
Control	E	7	5.109	WH-01	E	7	4.266
Control	E	8	5.568	WH-01	E	8	3.734
Control	E	9	4.601	WH-01	E	9	4.290
Control	E	10	4.524	WH-01	E	10	4.084
Control	F	1	4.999	WH-01	F	1	4.102
Control	F	2	5.556	WH-01	F	2	4.398
Control	F	3	5.589	WH-01	F	3	4.347
Control	F	4	5.373	WH-01	F	4	4.641
Control	F	5	4.676	WH-01	F	5	4.117
Control	F	6	4.741	WH-01	F	6	4.186
Control	F	7	5.519	WH-01	F	7	4.243
Control	F	8	5.090	WH-01	F	8	4.144
Control	G	1	5.848	WH-01	F	9	4.401
Control	G	2	5.839	WH-01	F	10	4.057
Control	G	3	5.182	WH-01	G	1	4.715
Control	G	4	5.802	WH-01	G	2	4.070
Control	G	5	5.842	WH-01	G	3	4.356
Control	G	6	4.884	WH-01	G	4	4.665
Control	G	7	5.182	WH-01	G	5	4.347
Control	G	8	4.701	WH-01	G	6	4.662
Control	G	9	6.180	WH-01	G	7	4.447
Control	H	1	4.972	WH-01	G	8	4.271
Control	H	2	4.278	WH-01	G	9	4.562
Control	H	3	5.681	WH-01	H	1	5.072
Control	H	4	5.008	WH-01	H	2	5.428
Control	H	5	4.302	WH-01	H	3	4.942
Control	H	6	4.88	WH-01	H	4	4.527
Control	H	7	4.856	WH-01	H	5	4.291
Control	H	8	5.182	WH-01	H	6	4.462
Control	H	9	3.889	WH-01	H	7	4.506
Control	H	10	5.194	WH-01	H	8	4.267
Control	H	11	5.267	WH-02	E	1	3.666

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-02	E	2	3.981	WH-03	E	8	4.359
WH-02	E	3	4.497	WH-03	E	9	4.272
WH-02	E	4	3.793	WH-03	E	10	4.249
WH-02	E	5	4.347	WH-03	F	1	4.434
WH-02	E	6	4.276	WH-03	F	2	4.629
WH-02	E	7	4.200	WH-03	F	3	4.602
WH-02	E	8	4.612	WH-03	F	4	4.320
WH-02	E	9	4.285	WH-03	F	5	4.443
WH-02	E	10	4.712	WH-03	F	6	4.467
WH-02	F	1	4.170	WH-03	G	1	4.228
WH-02	F	2	4.415	WH-03	G	2	4.269
WH-02	F	3	4.373	WH-03	G	3	4.275
WH-02	F	4	4.061	WH-03	G	4	4.123
WH-02	F	5	3.976	WH-03	G	5	4.222
WH-02	F	6	4.040	WH-03	G	6	4.943
WH-02	F	7	4.326	WH-03	G	7	4.135
WH-02	F	8	4.014	WH-03	G	8	4.147
WH-02	G	1	3.596	WH-03	G	9	4.338
WH-02	G	2	4.159	WH-03	H	1	5.147
WH-02	G	3	4.311	WH-03	H	2	4.671
WH-02	G	4	3.955	WH-03	H	3	4.919
WH-02	G	5	4.249	WH-03	H	4	4.398
WH-02	G	6	4.174	WH-03	H	5	4.530
WH-02	G	7	4.326	WH-03	H	6	4.874
WH-02	G	8	4.566	WH-03	H	7	4.575
WH-02	G	9	4.503	WH-03	H	8	4.638
WH-02	H	1	4.737	WH-04	E	1	4.503
WH-02	H	2	4.488	WH-04	E	2	4.557
WH-02	H	3	4.278	WH-04	E	3	4.766
WH-02	H	4	4.620	WH-04	E	4	4.377
WH-02	H	5	4.530	WH-04	E	5	4.539
WH-03	E	1	3.931	WH-04	E	6	4.069
WH-03	E	2	4.395	WH-04	E	7	4.473
WH-03	E	3	4.141	WH-04	E	8	4.584
WH-03	E	4	4.359	WH-04	E	9	4.290
WH-03	E	5	4.198	WH-04	E	10	4.171
WH-03	E	6	4.380	WH-04	F	1	4.231
WH-03	E	7	4.114	WH-04	F	2	4.464

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-04	F	3	4.389	WH-05	F	2	4.377
WH-04	F	4	3.952	WH-05	F	3	4.536
WH-04	F	5	4.479	WH-05	F	4	3.628
WH-04	F	6	4.470	WH-05	F	5	3.962
WH-04	F	7	4.641	WH-05	F	6	4.001
WH-04	F	8	4.647	WH-05	F	7	4.046
WH-04	F	9	4.078	WH-05	F	8	4.225
WH-04	G	1	4.548	WH-05	F	9	4.207
WH-04	G	2	4.693	WH-05	F	10	4.303
WH-04	G	3	3.867	WH-05	F	11	4.171
WH-04	G	4	4.081	WH-05	G	1	4.318
WH-04	G	5	4.925	WH-05	G	2	4.715
WH-04	G	6	4.562	WH-05	G	3	4.174
WH-04	G	7	4.506	WH-05	G	4	4.620
WH-04	G	8	4.250	WH-05	G	5	4.874
WH-04	G	9	4.515	WH-05	G	6	4.159
WH-04	G	10	4.197	WH-05	G	7	4.464
WH-04	H	1	4.631	WH-05	G	8	4.503
WH-04	H	2	4.741	WH-05	H	1	4.521
WH-04	H	3	4.643	WH-05	H	2	4.649
WH-04	H	4	4.200	WH-05	H	3	4.569
WH-04	H	5	4.331	WH-05	H	4	4.446
WH-04	H	6	4.307	WH-05	H	5	4.150
WH-04	H	7	4.286	WH-05	H	6	4.930
WH-04	H	8	4.521	WH-05	H	7	4.443
WH-04	H	9	4.699	WH-05	H	8	4.375
WH-04	H	10	4.548	WH-06	E	1	4.581
WH-05	E	1	4.355	WH-06	E	2	4.276
WH-05	E	2	4.426	WH-06	E	3	4.216
WH-05	E	3	4.559	WH-06	E	4	4.401
WH-05	E	4	4.105	WH-06	E	5	4.664
WH-05	E	5	4.254	WH-06	E	6	4.494
WH-05	E	6	4.551	WH-06	E	7	4.419
WH-05	E	7	4.711	WH-06	E	8	3.873
WH-05	E	8	4.197	WH-06	E	9	4.416
WH-05	E	9	4.262	WH-06	F	1	4.291
WH-05	E	10	4.562	WH-06	F	2	4.165
WH-05	F	1	3.893	WH-06	F	3	4.025

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (**rep**), animal (**individual animal number**), and length (**mean length for individual animal in mm**). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-06	F	4	3.938	WH-07	F	7	3.371
WH-06	F	5	4.061	WH-07	F	8	3.440
WH-06	F	6	4.309	WH-07	F	9	3.656
WH-06	F	7	4.031	WH-07	F	10	3.330
WH-06	F	8	3.977	WH-07	G	1	4.341
WH-06	F	9	4.147	WH-07	G	2	4.093
WH-06	G	1	4.109	WH-07	G	3	4.177
WH-06	G	2	4.464	WH-07	G	4	4.249
WH-06	G	3	4.372	WH-07	G	5	3.955
WH-06	G	4	4.252	WH-07	G	6	4.201
WH-06	G	5	3.248	WH-07	G	7	4.147
WH-06	G	6	4.088	WH-07	G	8	4.584
WH-06	G	7	4.294	WH-07	G	9	4.359
WH-06	G	8	4.679	WH-07	G	10	4.129
WH-06	G	9	3.870	WH-07	H	1	4.766
WH-06	H	1	3.855	WH-07	H	2	4.299
WH-06	H	2	4.106	WH-07	H	3	4.287
WH-06	H	3	4.336	WH-07	H	4	4.626
WH-06	H	4	4.542	WH-07	H	5	4.488
WH-06	H	5	4.303	WH-07	H	6	4.584
WH-06	H	6	3.989	WH-07	H	7	4.186
WH-06	H	7	4.375	WH-07	H	8	4.518
WH-06	H	8	4.395	WH-07	H	9	4.380
WH-06	H	9	4.213	WH-07	H	10	3.605
WH-07	E	1	4.503	WH-07	H	11	4.174
WH-07	E	2	4.839	WH-08	E	1	3.967
WH-07	E	3	5.050	WH-08	E	2	4.153
WH-07	E	4	4.604	WH-08	E	3	3.871
WH-07	E	5	4.542	WH-08	E	4	4.165
WH-07	E	6	4.497	WH-08	E	5	4.045
WH-07	E	7	4.313	WH-08	E	6	3.763
WH-07	E	8	4.310	WH-08	E	7	4.650
WH-07	E	9	4.559	WH-08	E	8	4.186
WH-07	F	1	4.319	WH-08	E	9	4.081
WH-07	F	2	4.212	WH-08	F	1	4.413
WH-07	F	3	4.717	WH-08	F	2	4.254
WH-07	F	4	4.616	WH-08	F	3	4.545
WH-07	F	5	4.126	WH-08	F	4	4.359
WH-07	F	6	3.374	WH-08	F	5	4.389

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-08	F	6	4.710	WH-09	F	7	4.793
WH-08	F	7	4.772	WH-09	G	1	4.323
WH-08	G	1	3.928	WH-09	G	2	3.973
WH-08	G	2	4.614	WH-09	G	3	3.572
WH-08	G	3	4.003	WH-09	G	4	4.168
WH-08	G	4	4.147	WH-09	G	5	4.027
WH-08	G	5	4.278	WH-09	G	6	4.296
WH-08	G	6	4.204	WH-09	G	7	4.006
WH-08	G	7	4.494	WH-09	G	8	3.713
WH-08	G	8	4.407	WH-09	G	9	4.138
WH-08	G	9	4.302	WH-09	G	10	3.731
WH-08	G	10	4.000	WH-09	H	1	3.626
WH-08	H	1	4.159	WH-09	H	2	3.832
WH-08	H	2	4.877	WH-09	H	3	4.608
WH-08	H	3	4.192	WH-09	H	4	3.844
WH-08	H	4	4.551	WH-09	H	5	4.671
WH-08	H	5	4.240	WH-09	H	6	4.237
WH-08	H	6	4.204	WH-09	H	7	4.096
WH-08	H	7	4.464	WH-09	H	8	3.775
WH-08	H	8	4.452	WH-09	H	9	3.907
WH-08	H	9	4.446	WH-09	H	10	4.228
WH-09	E	1	4.344	WH-10	E	1	3.955
WH-09	E	2	3.719	WH-10	E	2	3.991
WH-09	E	3	4.042	WH-10	E	3	3.874
WH-09	E	4	4.422	WH-10	E	4	4.189
WH-09	E	5	3.883	WH-10	E	5	4.548
WH-09	E	6	3.895	WH-10	E	6	4.365
WH-09	E	7	4.320	WH-10	E	7	4.195
WH-09	E	8	4.677	WH-10	E	8	3.746
WH-09	E	9	4.174	WH-10	E	9	4.410
WH-09	E	10	3.434	WH-10	E	10	3.790
WH-09	F	1	4.751	WH-10	F	1	4.647
WH-09	F	2	4.656	WH-10	F	2	4.243
WH-09	F	3	5.012	WH-10	F	3	4.260
WH-09	F	4	5.359	WH-10	F	4	4.572
WH-09	F	5	5.383	WH-10	F	5	4.692
WH-09	F	6	4.254	WH-10	F	6	4.787

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-10	F	7	4.662	WH-11	F	9	3.934
WH-10	F	8	3.793	WH-11	F	10	3.970
WH-10	F	9	4.443	WH-11	F	11	3.596
WH-10	G	1	3.904	WH-11	F	12	4.488
WH-10	G	2	3.970	WH-11	G	1	4.344
WH-10	G	3	3.859	WH-11	H	2	3.901
WH-10	G	4	3.760	WH-11	H	3	3.970
WH-10	G	5	4.126	WH-11	H	4	4.332
WH-10	G	6	3.371	WH-11	H	5	4.314
WH-10	G	7	4.515	WH-11	H	6	4.183
WH-10	G	8	4.039	WH-11	H	7	4.674
WH-10	G	9	4.090	WH-11	H	8	3.946
WH-10	G	10	4.228	WH-11	H	9	4.665
WH-10	G	11	4.201	WH-11	H	10	3.949
WH-10	G	12	4.036	WH-11R	E	1	4.503
WH-10	H	1	4.734	WH-11R	E	2	4.494
WH-10	H	2	4.626	WH-11R	E	3	4.226
WH-10	H	3	4.671	WH-11R	E	4	4.449
WH-10	H	4	4.644	WH-11R	E	5	4.304
WH-10	H	5	4.590	WH-11R	E	6	4.611
WH-10	H	6	4.937	WH-11R	E	7	4.349
WH-10	H	7	4.748	WH-11R	E	8	3.340
WH-10	H	8	4.060	WH-11R	F	1	4.277
WH-11	E	1	4.587	WH-11R	F	2	4.060
WH-11	E	2	5.018	WH-11R	F	3	4.334
WH-11	E	3	5.461	WH-11R	F	4	4.102
WH-11	E	4	3.775	WH-11R	F	5	4.027
WH-11	E	5	4.611	WH-11R	F	6	4.377
WH-11	E	6	5.177	WH-11R	F	7	4.608
WH-11	F	1	4.518	WH-11R	F	8	4.404
WH-11	F	2	3.844	WH-11R	F	9	3.916
WH-11	F	3	4.515	WH-11R	F	10	3.837
WH-11	F	4	4.117	WH-11R	G	1	4.172
WH-11	F	5	4.093	WH-11R	G	2	3.726
WH-11	F	6	3.829	WH-11R	G	3	4.157
WH-11	F	7	4.731	WH-11R	G	4	4.078
WH-11	F	8	4.428	WH-11R	G	5	3.699

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-11R	G	6	3.660	WH-12	H	7	4.033
WH-11R	G	7	4.154	WH-12	H	8	4.347
WH-11R	G	8	4.036	WH-13	E	1	4.608
WH-11R	G	9	3.732	WH-13	E	2	4.539
WH-11R	G	10	4.111	WH-13	E	3	4.410
WH-11R	H	1	4.654	WH-13	E	4	4.716
WH-11R	H	2	4.340	WH-13	E	5	4.249
WH-11R	H	3	4.217	WH-13	E	6	4.398
WH-11R	H	4	4.584	WH-13	E	7	4.698
WH-11R	H	5	4.329	WH-13	E	8	4.281
WH-11R	H	6	4.042	WH-13	F	1	4.156
WH-11R	H	7	4.114	WH-13	F	2	4.269
WH-11R	H	8	4.314	WH-13	F	3	4.129
WH-11R	H	9	4.749	WH-13	F	4	4.323
WH-11R	H	10	4.572	WH-13	F	5	4.536
WH-12	E	1	4.263	WH-13	F	6	3.629
WH-12	E	2	5.156	WH-13	F	7	4.198
WH-12	E	3	4.901	WH-13	F	8	4.231
WH-12	E	4	4.850	WH-13	F	9	4.395
WH-12	E	5	4.778	WH-13	F	10	4.347
WH-12	F	1	4.311	WH-13	F	11	4.012
WH-12	F	2	4.257	WH-13	G	1	4.832
WH-12	F	3	4.407	WH-13	G	2	4.252
WH-12	F	4	4.147	WH-13	G	3	4.545
WH-12	F	5	4.186	WH-13	G	4	4.377
WH-12	F	6	4.919	WH-13	G	5	4.449
WH-12	G	1	4.078	WH-13	G	6	4.240
WH-12	G	2	4.898	WH-13	G	7	4.653
WH-12	G	3	4.512	WH-13	G	8	4.024
WH-12	G	4	4.506	WH-13	G	9	4.560
WH-12	G	5	4.467	WH-13	G	10	4.335
WH-12	G	6	4.413	WH-13	H	1	4.862
WH-12	H	1	4.626	WH-13	H	2	4.680
WH-12	H	2	3.865	WH-13	H	3	4.623
WH-12	H	3	4.482	WH-13	H	4	4.341
WH-12	H	4	4.225	WH-13	H	5	4.488
WH-12	H	5	3.578	WH-13	H	6	4.165
WH-12	H	6	3.611	WH-13	H	7	4.638

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-13	H	8	3.635	WH-15	E	2	4.229
WH-13	H	9	5.021	WH-15	E	3	4.367
WH-13	H	10	4.569	WH-15	E	4	4.120
WH-13	H	11	4.638	WH-15	E	5	4.033
WH-14	E	1	4.557	WH-15	E	6	3.919
WH-14	E	2	4.119	WH-15	E	7	4.018
WH-14	E	3	4.671	WH-15	E	8	3.828
WH-14	E	4	4.758	WH-15	E	9	4.048
WH-14	E	5	4.560	WH-15	E	10	3.774
WH-14	E	6	4.527	WH-15	E	11	4.271
WH-14	E	7	4.389	WH-15	F	1	4.196
WH-14	E	8	4.095	WH-15	F	2	4.084
WH-14	E	9	4.605	WH-15	F	3	3.636
WH-14	F	1	4.551	WH-15	F	4	4.235
WH-14	F	2	4.899	WH-15	F	5	3.979
WH-14	F	3	4.701	WH-15	F	6	4.108
WH-14	F	4	4.620	WH-15	F	7	4.157
WH-14	F	5	4.674	WH-15	F	8	3.988
WH-14	F	6	4.626	WH-15	F	9	3.858
WH-14	F	7	4.692	WH-15	F	10	4.199
WH-14	F	8	4.500	WH-15	F	11	3.997
WH-14	G	1	4.686	WH-15	G	1	4.617
WH-14	G	2	4.674	WH-15	G	2	3.858
WH-14	G	3	3.996	WH-15	G	3	4.407
WH-14	G	4	4.326	WH-15	G	4	4.184
WH-14	G	5	4.233	WH-15	G	5	4.271
WH-14	G	6	4.611	WH-15	G	6	3.940
WH-14	G	7	4.584	WH-15	G	7	4.133
WH-14	G	8	4.479	WH-15	G	8	4.337
WH-14	H	1	4.611	WH-15	G	9	4.458
WH-14	H	2	4.818	WH-15	G	10	3.401
WH-14	H	3	4.167	WH-15	H	1	4.446
WH-14	H	4	4.563	WH-15	H	2	4.449
WH-14	H	5	4.830	WH-15	H	3	4.434
WH-14	H	6	4.491	WH-15	H	4	4.458
WH-14	H	7	4.767	WH-15	H	5	4.066
WH-15	E	1	4.241	WH-15	H	6	3.690

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-15	H	7	3.925	WH-17	E	1	4.670
WH-15	H	8	3.868	WH-17	E	2	4.991
WH-15	H	9	4.199	WH-17	E	3	4.063
WH-15	H	10	3.587	WH-17	E	4	4.679
WH-15	H	11	4.006	WH-17	E	5	4.077
WH-16	E	1	4.381	WH-17	E	6	4.336
WH-16	E	2	4.888	WH-17	E	7	4.542
WH-16	E	3	4.622	WH-17	E	8	4.470
WH-16	E	4	4.279	WH-17	E	9	4.717
WH-16	E	5	4.625	WH-17	E	10	4.822
WH-16	E	6	4.396	WH-17	F	1	4.753
WH-16	E	7	5.058	WH-17	F	2	4.625
WH-16	E	8	4.807	WH-17	F	3	4.622
WH-16	F	1	4.419	WH-17	F	4	4.527
WH-16	F	2	4.497	WH-17	F	5	4.771
WH-16	F	3	4.700	WH-17	F	6	4.405
WH-16	F	4	4.211	WH-17	F	7	4.530
WH-16	F	5	4.554	WH-17	F	8	4.435
WH-16	F	6	4.855	WH-17	G	1	4.768
WH-16	F	7	4.071	WH-17	G	2	4.601
WH-16	F	8	4.127	WH-17	G	3	4.789
WH-16	F	9	3.984	WH-17	G	4	4.774
WH-16	G	1	4.238	WH-17	G	5	4.253
WH-16	G	2	4.479	WH-17	G	6	4.354
WH-16	G	3	4.667	WH-17	G	7	4.673
WH-16	G	4	4.378	WH-17	G	8	3.991
WH-16	G	5	4.705	WH-17	H	1	4.357
WH-16	G	6	4.402	WH-17	H	2	4.774
WH-16	G	7	3.673	WH-17	H	3	4.402
WH-16	G	8	4.577	WH-17	H	4	4.732
WH-16	H	1	4.735	WH-17	H	5	3.777
WH-16	H	2	4.768	WH-17	H	6	4.384
WH-16	H	3	5.265	WH-17	H	7	4.414
WH-16	H	4	5.104	WH-17	H	8	4.444
WH-16	H	5	5.146	WH-17	H	9	4.455
WH-16	H	6	5.345	WH-17	H	10	4.557
WH-16	H	7	4.726	WH-17	H	11	4.548

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Appendix 7 Day 42 amphipod length data for sediment samples from Waukegan Harbor

Replicate (*rep*), animal (*individual animal number*), and length (*mean length for individual animal in mm*). Archive = amphipod length at start of test. NA = not applicable.

SAMPLE S	REP	ANIMAL	LENGTH	SAMPLE S	REP	ANIMAL	LENGTH
WH-18	E	1	4.851	WH-19	E	1	4.557
WH-18	E	2	4.450	WH-19	E	2	4.363
WH-18	E	3	4.280	WH-19	E	3	4.738
WH-18	E	4	4.705	WH-19	E	4	4.429
WH-18	E	5	4.744	WH-19	E	5	4.646
WH-18	E	6	3.813	WH-19	E	6	4.438
WH-18	E	7	4.396	WH-19	E	7	4.506
WH-18	E	8	3.866	WH-19	E	8	4.057
WH-18	E	9	4.426	WH-19	E	9	4.461
WH-18	E	10	3.914	WH-19	F	1	4.375
WH-18	F	1	4.503	WH-19	F	2	4.625
WH-18	F	2	4.548	WH-19	F	3	4.432
WH-18	F	3	4.610	WH-19	F	4	4.634
WH-18	F	4	4.611	WH-19	F	5	4.530
WH-18	F	5	4.095	WH-19	F	6	4.672
WH-18	F	6	4.051	WH-19	F	7	4.929
WH-18	F	7	4.658	WH-19	F	8	4.771
WH-18	F	8	4.601	WH-19	F	9	4.325
WH-18	G	1	4.286	WH-19	G	1	4.343
WH-18	G	2	4.003	WH-19	G	2	4.128
WH-18	G	3	3.834	WH-19	G	3	4.021
WH-18	G	4	4.661	WH-19	G	4	4.283
WH-18	G	5	4.548	WH-19	G	5	4.146
WH-18	G	6	4.714	WH-19	G	6	4.006
WH-18	G	7	4.390	WH-19	G	7	4.125
WH-18	G	8	4.658	WH-19	G	8	4.015
WH-18	G	9	4.551	WH-19	G	9	4.048
WH-18	H	1	5.276	WH-19	H	1	3.935
WH-18	H	2	4.176	WH-19	H	2	4.286
WH-18	H	3	4.057	WH-19	H	3	3.655
WH-18	H	4	4.732	WH-19	H	4	3.893
WH-18	H	5	5.155	WH-19	H	5	3.946
WH-18	H	6	4.792	WH-19	H	6	4.238
WH-18	H	7	4.506	WH-19	H	7	4.051
WH-18	H	8	4.450	WH-19	H	8	4.182
WH-18	H	9	4.723				

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Appendix 8 Day 42 amphipod weight data for sediment samples from Waukegan Harbor

Replicate (*rep*), and weight (*mean replication weight in mg*).

SAMPLE	REP	WEIGHT	SAMPLE	REP	WEIGHT
Control	E	0.609	WH-09	G	0.262
Control	F	0.502	WH-09	H	0.312
Control	G	0.603	WH-10	E	0.267
Control	H	0.416	WH-10	F	0.317
WH-01	E	0.321	WH-10	G	0.245
WH-01	F	0.343	WH-10	H	0.398
WH-01	G	0.366	WH-11	E	0.482
WH-01	H	0.383	WH-11	F	0.279
WH-02	E	0.312	WH-11	G	0.540
WH-02	F	0.344	WH-11	H	0.314
WH-02	G	0.324	WH-11R	E	0.365
WH-02	H	0.428	WH-11R	F	0.349
WH-03	E	0.333	WH-11R	G	0.324
WH-03	F	0.433	WH-11R	H	0.353
WH-03	G	0.341	WH-12	E	0.488
WH-03	H	0.426	WH-12	F	0.447
WH-04	E	0.353	WH-12	G	0.483
WH-04	F	0.377	WH-12	H	0.316
WH-04	G	0.333	WH-13	E	0.451
WH-04	H	0.346	WH-13	F	0.293
WH-05	E	0.363	WH-13	G	0.417
WH-05	F	0.303	WH-13	H	0.369
WH-05	G	0.383	WH-14	E	0.361
WH-05	H	0.421	WH-14	F	0.409
WH-06	E	0.379	WH-14	G	0.388
WH-06	F	0.304	WH-14	H	0.416
WH-06	G	0.320	WH-15	E	0.263
WH-06	H	0.326	WH-15	F	0.273
WH-07	E	0.390	WH-15	G	0.306
WH-07	F	0.371	WH-15	H	0.296
WH-07	G	0.337	WH-16	E	0.373
WH-07	H	0.365	WH-16	F	0.324
WH-08	E	0.331	WH-16	G	0.311
WH-08	F	0.394	WH-16	H	0.427
WH-08	G	0.328	WH-17	E	0.321
WH-08	H	0.326	WH-17	F	0.346
WH-09	E	0.300	WH-17	G	0.304
WH-09	F	0.410	WH-17	H	0.212

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Appendix 8 Day 42 amphipod weight data for sediment samples from Waukegan Harbor

Replicate (*rep*), and weight (*mean replication weight in mg*).

SAMPLE	REP	WEIGHT	SAMPLE	REP	WEIGHT
WH-18	E	0.390	WH-19	E	0.332
WH-18	F	0.406	WH-19	F	0.406
WH-18	G	0.424	WH-19	G	0.312
WH-18	H	0.472	WH-19	H	0.263

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Appendix 9 Day 35 amphipod reduction data for sediment samples from Waukegan Harbor

Replicate (*rep*), amplexus (*number of paired amphipods*), and # of young (*number of young in a replicate beaker*)

SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG	SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG
Control	E	2	13	WH-09	G	0	0
Control	F	2	6	WH-09	H	0	4
Control	G	1	26	WH-10	E	1	0
Control	H	2	12	WH-10	F	1	0
WH-01	E	2	0	WH-10	G	1	0
WH-01	F	2	12	WH-10	H	1	0
WH-01	G	2	0	WH-11	E	2	0
WH-01	H	1	11	WH-11	F	0	0
WH-02	E	2	0	WH-11	G	0	0
WH-02	F	1	0	WH-11	H	2	0
WH-02	G	1	0	WH-11R	E	2	3
WH-02	H	1	10	WH-11R	F	2	23
WH-03	E	3	11	WH-11R	G	3	1
WH-03	F	1	1	WH-11R	H	2	5
WH-03	G	3	0	WH-12	E	1	0
WH-03	H	1	19	WH-12	F	1	15
WH-04	E	3	16	WH-12	G	1	0
WH-04	F	1	0	WH-12	H	1	0
WH-04	G	0	15	WH-13	E	2	14
WH-04	H	1	22	WH-13	F	1	11
WH-05	E	3	12	WH-13	G	3	11
WH-05	F	1	2	WH-13	H	3	18
WH-05	G	1	8	WH-14	E	2	0
WH-05	H	1	8	WH-14	F	1	0
WH-06	E	2	6	WH-14	G	1	3
WH-06	F	1	0	WH-14	H	1	0
WH-06	G	0	0	WH-15	E	0	0
WH-06	H	2	0	WH-15	F	3	0
WH-07	E	2	0	WH-15	G	1	4
WH-07	F	0	0	WH-15	H	0	0
WH-07	G	1	0	WH-16	E	1	0
WH-07	H	2	7	WH-16	F	0	0
WH-08	E	1	8	WH-16	G	1	0
WH-08	F	1	0	WH-16	H	2	0
WH-08	G	1	5	WH-17	E	2	16
WH-08	H	2	9	WH-17	F	2	0
WH-09	E	2	0	WH-17	G	1	0
WH-09	F	1	1	WH-17	H	2	5

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Appendix 9 Day 35 amphipod reduction data for sediment samples from Waukegan Harbor

Replicate (*rep*), amplexus (*number of paired amphipods*), and # of young (*number of young in a replicate beaker*)

SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG	SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG
WH-18	E	2	8	WH-19	E	2	1
WH-18	F	2	1	WH-19	F	2	0
WH-18	G	1	6	WH-19	G	1	0
WH-18	H	2	30	WH-19	H	2	0

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Appendix 10 Day 42 amphipod reduction data for sediment samples from Waukegan Harbor

Replicate (*rep*), amplexus (*number of paired amphipods*), and # of young (*number of young in a replicate beaker*)

SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG	SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG
Control	E	2	1	WH-09	G	1	10
Control	F	0	20	WH-09	H	2	19
Control	G	1	20	WH-10	E	0	10
Control	H	2	10	WH-10	F	1	1
WH-01	E	0	17	WH-10	G	0	2
WH-01	F	2	5	WH-10	H	0	20
WH-01	G	1	18	WH-11	E	2	0
WH-01	H	1	5	WH-11	F	1	21
WH-02	E	2	9	WH-11	G	0	0
WH-02	F	1	4	WH-11	H	1	12
WH-02	G	0	0	WH-11R	E	0	32
WH-02	H	2	3	WH-11R	F	1	18
WH-03	E	0	32	WH-11R	G	1	20
WH-03	F	0	12	WH-11R	H	1	6
WH-03	G	1	9	WH-12	E	1	8
WH-03	H	2	0	WH-12	F	1	7
WH-04	E	2	14	WH-12	G	0	16
WH-04	F	0	26	WH-12	H	1	5
WH-04	G	1	16	WH-13	E	2	17
WH-04	H	1	22	WH-13	F	3	2
WH-05	E	1	15	WH-13	G	0	5
WH-05	F	1	22	WH-13	H	0	6
WH-05	G	2	7	WH-14	E	1	13
WH-05	H	1	16	WH-14	F	1	15
WH-06	E	1	36	WH-14	G	1	4
WH-06	F	0	19	WH-14	H	0	3
WH-06	G	1	22	WH-15	E	0	30
WH-06	H	0	34	WH-15	F	0	6
WH-07	E	1	34	WH-15	G	1	26
WH-07	F	1	39	WH-15	H	2	8
WH-07	G	0	18	WH-16	E	1	19
WH-07	H	1	44	WH-16	F	1	13
WH-08	E	0	15	WH-16	G	1	0
WH-08	F	1	14	WH-16	H	1	0
WH-08	G	1	22	WH-17	E	1	42
WH-08	H	0	30	WH-17	F	1	5
WH-09	E	1	17	WH-17	G	1	0
WH-09	F	2	5	WH-17	H	1	9

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Appendix 10 Day 42 amphipod reduction data for sediment samples from Waukegan Harbor

Replicate (*rep*), amplexus (*number of paired amphipods*), and # of young (*number of young in a replicate beaker*)

SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG	SAMPLE	REP	PAIRS IN AMPLEXUS	# OF YOUNG
WH-18	E	0	18	WH-19	E	1	20
WH-18	F	1	7	WH-19	F	1	11
WH-18	G	4	1	WH-19	G	1	9
WH-18	H	3	3	WH-19	H	1	11