

APPENDIX V
PCB RESULTS – FISH SAMPLES

Table 1 - Breakwater Zone High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Breakwater Zone																	
BWWC-2014-22		242 J	249 J	1,560 J	363 J	23.0 J	2,920 J	1,320 J	1,860 J	1,720 J	1,660 J	3,820 J	90.2 J	4.27 J	1,090 J	6,470 J	6,660 J
BWWC-2014-23		67.2 J	88.2 J	599 J	144 J	9.36 J	1,060 J	524 J	785 J	658 J	592 J	1,510 J	41.7 J	1.76 J	397 J	2,550 J	2,590 J
BWWC-2014-24		249 J	245 J	1,010 J	290 J	21.5 J	2,050 J	1,010 J	1,360 J	1,200 J	1,210 J	2,880 J	69.6 J	1.64 J	826 J	5,050 J	5,300 J
BWWC-2014-25		78.5 J	102 J	689 J	142 J	8.83 J	1,230 J	574 J	809 J	735 J	598 J	1,550 J	37.4 J	0.970 J	405 J	2,650 J	2,450 J
BWWC-2014-26		41.3 J	59.1 J	367 J	73.6 J	4.49 J	758 J	367 J	525 J	439 J	430 J	1,050 J	21.5 J	1.10 J	336 J	2,090 J	1,950 J
BWWC-2014-27		60.4 J	88.1 J	530 J	97.7 J	7.35 J	928 J	451 J	612 J	478 J	471 J	1,270 J	32.4 J	1.29 J	344 J	2,310 J	2,600 J
BWWC-2014-28		173 J	219 J	1,140 J	294 J	18.1 J	2,090 J	905 J	1,470 J	1,340 J	1,100 J	2,600 J	71.9 J	2.61 J	777 J	4,610 J	4,080 J
BWWC-2014-29		42.7 J	62.1 J	431 J	77.4 J	3.23 J	881 J	372 J	544 J	372 J	469 J	1,210 J	25.2 J	0.554 J	365 J	2,400 J	2,630 J
BWWC-2014-30		102 J	136 J	734 J	150 J	7.97 J	1,410 J	642 J	937 J	838 J	697 J	1,630 J	38.9 J	0.913 J	499 J	3,150 J	2,750 J

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
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- * Dioxin-like PCB congener.

Data Qualifiers

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Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Breakwater Zone																	
BWWC-2014-22		1,860 J	7,620 J	4,230 J	84.2 J	328 J	128 J	20.2 J	1,370 J	9,460 J	4,640 J	1,500 J	12,200 J	548 J	186 J	596 J	344 J
BWWC-2014-23		775 J	2,920 J	1,610 J	34.0 J	129 J	57.2 J	11.0 J	568 J	3,840 J	1,940 J	571 J	5,110 J	255 J	83.8 J	244 J	161 J
BWWC-2014-24		1,500 J	5,920 J	2,950 J	71.6 J	250 J	101 J	16.8 J	1,090 J	7,540 J	3,530 J	1,210 J	10,500 J	482 J	149 J	491 J	280 J
BWWC-2014-25		708 J	2,670 J	1,840 J	29.6 J	128 J	49.4 J	8.77 J	516 J	3,400 J	2,020 J	550 J	4,450 J	195 J	67.8 J	203 J	128 J
BWWC-2014-26		560 J	2,270 J	1,350 J	27.7 J	98.3 J	42.1 J	7.70 J	484 J	2,910 J	1,600 J	470 J	3,940 J	184 J	57.5 J	189 J	112 J
BWWC-2014-27		681 J	2,800 J	1,370 J	31.9 J	130 J	41.3 J	9.36 J	577 J	4,000 J	1,870 J	605 J	5,700 J	251 J	84.3 J	242 J	146 J
BWWC-2014-28		1,290 J	4,780 J	3,250 J	53.2 J	206 J	91.3 J	15.3 J	863 J	5,960 J	3,890 J	1,040 J	7,840 J	318 J	119 J	364 J	227 J
BWWC-2014-29		674 J	2,870 J	1,390 J	32.4 J	132 J	47.0 J	9.61 J	560 J	3,810 J	1,990 J	608 J	5,500 J	234 J	80.2 J	213 J	140 J
BWWC-2014-30		785 J	3,050 J	2,200 J	34.6 J	142 J	62.8 J	9.53 J	539 J	3,740 J	2,540 J	696 J	4,870 J	209 J	73.1 J	246 J	143 J

Abbreviations

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PCB - polychlorinated biphenyl
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Notes

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Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Breakwater Zone															
BWWC-2014-25	3.12 J	0.380 J	429 J	512 J	811 J	1,560 J	307 J	12.2 J	209 J	96.6 J	347 J	36.3 J	124 J	48.7 J	33,500
BWWC-2014-26	2.78 J	0.307 J	405 J	406 J	893 J	992 J	305 J	10.3 J	186 J	79.1 J	309 J	35.1 J	110 J	48.9 J	26,600
BWWC-2014-27	3.93 J	0.495 J	599 J	532 J	1,200 J	2,070 J	394 J	15.1 J	291 J	133 J	490 J	44.9 J	194 J	79.5 J	34,900
BWWC-2014-28	5.78 J	0.524 J	674 J	837 J	1,320 J	2,990 J	597 J	22.4 J	305 J	141 J	560 J	63.8 J	194 J	76.3 J	59,000
BWWC-2014-29	4.14 J	0.353 J	513 J	484 J	1,020 J	1,960 J	350 J	13.7 J	226 J	101 J	403 J	35.2 J	142 J	54.8 J	33,500
BWWC-2014-30	3.97 J	0.349 J	469 J	560 J	962 J	1,850 J	392 J	13.6 J	227 J	105 J	411 J	46.4 J	149 J	66.1 J	38,300
IROD RAO (ingestion) [ng/kg]															70,000
OEHHA FCG (cancer effects) [ng/kg]															3,600
OEHHA FCG (noncancer effects) [ng/kg]															63,000

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OEHHA - California EPA Office of Environmental Health Hazard Assessment

Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

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Table 2 - Huntington Flats High Resolution PCBs in Fish
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Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Huntington Flats Zone																	
HFBSB-2015-01		< 0.230 U	2.64	116	9.63	0.132 J	330	88.1	250	113	331	520	2.69	0.815	245 J	1,290	1,380
HFBSB 2016-02		2.84	2.76	190 J	10.3 J	0.201 J	436 J	115	521 J	60.7	304 J	628 J	6.22	0.489 J	269	1,610 J	1,420 J
HFBSB 2016-03		13.4	40.2	1,080 J	131 J	0.554	2,760 J	496	2,860 J	625	1,740 J	3,320 J	16.9	3.94	2,090	11,400 J	8,940 J
HFBSB 2016-04		7.22	13.0	197 J	21.9 J	< 0.0413 U	799 J	193	767 J	230	852 J	1,160 J	6.69	2.50	835	4,350 J	4,320 J
HFBSB 2016-05		10.2	9.82	201 J	31.7 J	0.555	629 J	136	599 J	242	747 J	1,100 J	8.73	1.02	723	4,250 J	4,650 J
HFBSB 2016-06		0.800 J	1.05	240 J	11.1 J	0.136 J	666 J	16.9	565 J	159	833 J	1,000 J	2.66	2.85	583	2,490 J	2,070 J
HFBSB 2016-07		1.67	3.91	137 J	9.24 J	0.0882 J	413 J	109	456 J	74.6	571 J	824 J	5.42	1.33 J	376	2,340 J	2,490 J
HFBSB 2016-08		4.32	6.77	99.9 J	12.0 J	0.314 J	404 J	128	334 J	91.4	306 J	534 J	8.76	0.737	321	1,840 J	2,020 J
HFBSB 2016-09		14.1	30.7	530 J	32.5 J	< 0.0342 U	1,070 J	245	1,230 J	241	987 J	1,600 J	11.3	1.99	721	4,560 J	3,580 J
HFBSB 2016-10		1.49	0.792	171 J	9.64 J	< 0.0316 U	382 J	91.7	451 J	82.1	449 J	557 J	2.00	0.842	301	1,670 J	1,970 J
HFBSB 2016-11		2.06	9.31	57.0 J	8.48 J	0.115 J	147 J	56.4	180 J	48.1	129 J	184 J	1.17	0.262 J	155	1,120 J	885 J
HFBSB 2016-12		3.86	3.55	70.1 J	7.41 J	0.0992 J	207 J	58.0	192 J	60.3	164 J	318 J	2.99	0.594	155	836 J	927 J
HFBSB 2016-13		17.4	57.7	1,260 J	171 J	1.28	2,720 J	620	2,680 J	990	2,770 J	3,800 J	35.2	5.21	1,970	12,900 J	10,900 J
HFBSB 2016-14		1.78	3.23	65.3 J	6.57 J	0.0873 J	307 J	53.4	240 J	59.5	431 J	487 J	3.28	1.50	403	2,670 J	3,120 J
HFBSB 2016-15		6.16	12.2	283 J	27.2 J	0.366 J	755 J	192	712 J	215	619 J	1,140 J	12.8	1.97	619	3,050 J	3,040 J
HFBSB 2016-16		2.51	4.53	111 J	11.1 J	0.167 J	422 J	105	376 J	89.0	315 J	575 J	2.79	1.36	391	2,010 J	2,130 J
HFBSB 2016-17		2.33	5.86	142 J	12.5 J	0.145 J	476 J	71.5	449 J	106	438 J	700 J	6.44	1.08	425	2,310 J	2,200 J
HFBSB 2016-18		1.09	2.68	45.5 J	5.36 J	0.0698 J	131 J	46.1	110 J	33.9	104 J	177 J	2.38	0.178 J	82.0	558 J	659 J
HFBSB 2016-19		2.88	5.31	336 J	13.1 J	< 0.0429 U	1,480 J	241	1,460 J	206	2,340 J	2,330 J	29.1	6.79	1,800	10,900 J	10,300 J
HFBSB 2016-20		4.02	2.62	223 J	18.7 J	< 0.0354 U	602 J	155	551 J	153	692 J	863 J	2.65	0.590	443	2,480 J	2,610 J
HFBSB 2016-21		1.61	1.47	70.2 J	10.3 J	0.240 J	205 J	47.9	177 J	49.4	167 J	302 J	4.00	0.424 J	172	852 J	910 J
HFBSB 2016-22		9.39	17.4	286 J	59.6 J	0.791	846	473	964	307	611	1,090	9.20	1.36	777	3,640	2,930 J
HFBSB 2016-23		2.14	2.86	90.7 J	6.85 J	0.0555 J	324	59.7	301	45.3	323	413	3.05	0.371 J	248	1,560	1,730
HFBSB 2016-24		7.08	12.0	273 J	29.1 J	0.286 J	593	174	546	189	567	939	12.8	0.734	463	2,400	2,660 J
HFBSB 2016-25		4.30	4.00	149 J	10.5 J	0.188 J	516	150	446	94.4	450	788	8.28	0.649	500	2,430	2,420 J
HFBSB 2016-26		1.52	1.35	42.5 J	3.23 J	0.0683 J	115	20.1	89.4	26.2	117	202	1.66	0.131 J	97.5	551	783
HFBSB 2016-27		2.27	15.0	562 J	47.0 J	0.168 J	1,270	470	1,780	265	1,510	1,460	7.15	1.56	942	4,210 J	3,310 J
HFBSB 2016-28		0.708 J	1.44	64.4 J	2.78 J	0.0523 J	149	35.4	195	13.2	123	211	0.827	0.293 J	135	805	674
HFBSB 2016-29		4.32	4.49	102 J	14.2 J	0.497	195	21.9	109	80.0	201	426	8.12	0.526	146	919	1,150
HFBSB 2016-30		1.65	1.73	54.8 J	8.39 J	0.144 J	124	31.8	102	53.3	104	214	3.64	0.205 J	100	498	553

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Huntington Flats Zone																	
HFBSB-2015-01		458	1,950	612	28.1	51.2	27.6	4.00	354	2,430 J	740	331	3,230 J	215	57.1	196	99.0
HFBSB 2016-02		515 J	1,680 J	775 J	17.7	36.0	18.3	5.88	314	2,380 J	1,010 J	317	3,590 J	126	37.3	162	82.3
HFBSB 2016-03		3,340 J	10,900 J	4,700 J	151	174	133	35.4	2,250	16,600 J	7,780 J	2,370 J	20,800 J	1,080	287	1,270	629
HFBSB 2016-04		1,610 J	6,170 J	1,850 J	102	75.0	42.5	12.6	1,230	8,740 J	2,870 J	1,050	12,100 J	677	185	647	264
HFBSB 2016-05		1,560 J	5,910 J	1,700 J	91.1	130	39.7	10.3	1,350	9,750 J	2,760 J	1,220	15,000 J	638	171	657	285
HFBSB 2016-06		1,060 J	3,240 J	847 J	69.1	24.3	31.1	5.89	500	3,800 J	1,060 J	358	5,210 J	363	86.8	325	140
HFBSB 2016-07		1,140 J	3,970 J	603 J	65.1	18.7	47.0	10.4	759	4,950 J	1,120 J	470	7,500 J	482	129	346	255
HFBSB 2016-08		552 J	2,210 J	678 J	25.0	29.0	17.8	4.71	448	3,040 J	1,450 J	409	6,140 J	173	68.4	166	91.2
HFBSB 2016-09		1,860 J	6,580 J	2,000 J	91.3	74.1	64.8	22.9	1,040	7,680 J	2,450 J	734	11,900 J	702	187	669	384
HFBSB 2016-10		764 J	2,820 J	655 J	44.5	49.1	17.7	6.40	462	3,480 J	1,050 J	298	5,790 J	335	77.3	304	153
HFBSB 2016-11		364 J	1,090 J	260 J	15.1	8.16	4.40	1.51	330	2,420 J	774 J	209	3,550 J	156	44.3	191	41.2
HFBSB 2016-12		314 J	1,220 J	445 J	16.4	33.3	13.1	4.34	247	1,900 J	598 J	193	2,930 J	140	39.9	109	81.6
HFBSB 2016-13		4,100 J	15,500 J	6,240 J	199	178	156	58.1	2,380	22,600 J	7,320 J	2,060	32,900 J	1,380	417	1,400	856
HFBSB 2016-14		1,100 J	4,270 J	513 J	72.4	20.3	27.3	6.64	963	6,720 J	1,770 J	628	10,000 J	569	153	479	188
HFBSB 2016-15		1,060 J	3,980 J	1,510 J	60.0	58.9	41.6	12.4	781	5,200 J	2,160 J	635	8,110 J	382	118	317	219
HFBSB 2016-16		639 J	2,530 J	825 J	28.8	35.0	18.3	5.47	548	3,890 J	1,500 J	456	6,030 J	224	75.3	240	100
HFBSB 2016-17		832 J	3,080 J	1,110 J	42.8	56.8	37.1	11.3	563	3,960 J	1,540 J	439	6,780 J	290	100	243	196
HFBSB 2016-18		220 J	800 J	191 J	9.31	11.3	4.60	1.47	163	1,080 J	344 J	98.4	1,890 J	89.8	24.4	66.3	31.3
HFBSB 2016-19		4,260 J	15,000 J	3,840 J	257	93.0	88.9	20.2	2,410	22,300 J	5,850 J	2,040	32,300 J	1,680	420	1,710	673
HFBSB 2016-20		1,040 J	3,500 J	994 J	64.6	73.4	21.1	4.67	654	4,650 J	1,070 J	463	7,110 J	437	109	397	150
HFBSB 2016-21		308 J	1,190 J	356 J	16.4	12.4	13.8	4.12	237	1,600 J	574 J	171	2,540 J	114	33.9	94.1	65.2
HFBSB 2016-22		1,040	3,810 J	1,760	56.4	54.6	40.7	13.3	626	4,870 J	2,150	655	7,000 J	356	94.6	334	192
HFBSB 2016-23		509	2,090 J	525	26.9	20.4	10.9	3.84	365	2,660 J	832	281	4,020 J	164	52.7	148	83.5
HFBSB 2016-24		887	3,110 J	1,030	48.2	44.5	37.0	7.45	520	3,930 J	1,210	459	5,740 J	296	84.9	250	140
HFBSB 2016-25		897	3,380 J	1,080	49.2	40.0	34.3	9.48	615	4,500 J	1,620	487	6,710 J	336	99.6	270	178
HFBSB 2016-26		231	896 J	243	11.4	15.6	7.56	1.97	168	1,210 J	320	128	1,880 J	86.2	25.5	71.4	40.9
HFBSB 2016-27		1,690	4,940 J	1,680	107	35.1	47.6	11.9	743	5,430 J	1,840	560	7,480 J	429	114	432	197
HFBSB 2016-28		269	995 J	274	11.2	8.24	7.26	2.50	187	1,490 J	498	179	2,390 J	105	25.9	102	54.3
HFBSB 2016-29		346	1,420 J	307	16.6	24.8	21.9	4.48	256	1,780 J	523	121	2,720 J	123	38.1	90.9	77.3
HFBSB 2016-30		176	686 J	247	8.17	13.7	5.90 J	2.50	123	919 J	286	87.4	1,400 J	64.9	18.6	54.7	39.8

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Huntington Flats Zone															
HFBSB-2015-01	6.27	< 2.46 U	473	215	1,310	1,250	378	21.2	272	95.1	459	53.6	202	88.4	20,300
HFBSB 2016-02	1.55	0.304 J	306	240	855 J	1,020	300	11.9	154 J	49.0	213	35.6	85.2	48.6	20,000
HFBSB 2016-03	15.7	2.13	2,510 J	1,400	7,240 J	7,420 J	2,270 J	96.2	1,190 J	396	1,640	244	612	238	133,000
HFBSB 2016-04	7.87	1.04	1,460	923	3,950 J	3,900	1,060	57.1	866 J	293 J	1,100	138	447 J	211	65,800
HFBSB 2016-05	9.21	0.925	1,460	962	4,320 J	5,250 J	1,220	54.4	860 J	306	1,290	170	462	156	71,100
HFBSB 2016-06	2.65	0.250 J	727	213	2,130 J	1,470	520	29.0	489 J	166	684	69.9	268	153	32,700
HFBSB 2016-07	2.93	0.702	1,120	439	3,020 J	2,590	700	48.5	779 J	274	990	110	411	217	40,400
HFBSB 2016-08	7.86	0.421 J	373	278	774 J	3,140	389	14.6	249 J	75.1	369	46.4	275	46.7	27,700
HFBSB 2016-09	8.82	1.84	1,180	555	3,630 J	3,210	1,040	62.5	740 J	212	1,020	130	320	67.9	63,500
HFBSB 2016-10	4.08	0.558	578	337	2,020 J	1,500	473	29.3	369 J	98.0	484	52.2	172	67.7	28,600
HFBSB 2016-11	1.79	0.218 J	501	127	1,560 J	1,240	495	16.7	257 J	99.1	446	49.6	184	87.7	17,500
HFBSB 2016-12	1.58	0.417 J	348	223	947 J	1,050	247	15.8	265 J	90.2	355	37.7	189 J	98.5 J	15,200
HFBSB 2016-13	19.2	5.27	3,580	1,810	9,790 J	9,600	2,410	139	1,650 J	491	2,060	257	758 J	200	171,000
HFBSB 2016-14	5.04	0.983	1,200	478	3,180 J	3,110	872	47.1	596 J	222	862	100	276	107	46,400
HFBSB 2016-15	5.04	1.00	974	567	2,330 J	2,510	680	42.5	599 J	195	778	98.8	292	117	44,500
HFBSB 2016-16	3.72	0.513	587	389	1,520 J	1,800	454	21.1	337 J	110	449	58.7	171	69.0	29,700
HFBSB 2016-17	3.57	0.799	777	350 J	1,670 J	1,730	486	33.0	392 J	125	461	51.9	165	66.0	32,900
HFBSB 2016-18	0.791	0.280 J	203	80.1 J	513 J	507	134	8.21	118 J	36.1	158	16.5	64.1	28.8	8,850
HFBSB 2016-19	17.0	1.66	4,220	1,520 J	12,400 J	10,000	3,510	144	2,480 J	748	3,060	368	1,000	440	164,000
HFBSB 2016-20	6.18	0.480 J	1,060	264	3,070 J	2,330	803	43.5	737 J	241	1,050	111	437	249 J	39,900
HFBSB 2016-21	1.54	0.377 J	269	173 J	672 J	719	183	10.5	164 J	53.2 J	193	23.1	97.7	46.7	12,900
HFBSB 2016-22	3.96	0.790	743	474	2,140 J	2,040	604	31.7	424	137 J	601	70.8	234	97.0	42,700
HFBSB 2016-23	1.97	0.560	353	247	818 J	1,140	260	14.5	160	52.1 J	230	24.5	83.5	34.7 J	20,300
HFBSB 2016-24	2.97	0.675	627	406	1,720 J	1,810	462	29.1	423	140 J	575	57.9	250	108	33,300
HFBSB 2016-25	3.21	0.713	792	503	2,050 J	2,180	583	35.4	548	191 J	760	86.0	363	215	36,600
HFBSB 2016-26	0.944	0.198 J	182	110	492 J	516	145	7.19	107	35.6 J	163	15.7	63.0	24.8	9,250
HFBSB 2016-27	2.94	1.23	920	377	2,710 J	1,960	700	33.9	440	140 J	719	68.1	195	56.6	49,900
HFBSB 2016-28	0.874	0.284 J	295	129	939 J	850	295	12.5	194	63.8 J	288	32.8	131	81.3	12,300
HFBSB 2016-29	1.55	0.470 J	283	106	741 J	813	208	11.9	176	53.2 J	249	22.7	97.1	39.5	14,100
HFBSB 2016-30	0.708	0.298 J	161	83.5	441 J	434	129	6.52	111	36.3 J	172	14.7	72.7	33.0	7,680
IROD RAO (ingestion) [ng/kg]															70,000
OEHHA FCG (cancer effects) [ng/kg]															3,600
OEHHA FCG (noncancer effects) [ng/kg]															63,000

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

QCSR - Quality Control Summary Report

ug/kg - micrograms per kilogram

OEHHA - California EPA Office of Environmental Health Hazard Assessment

Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit

Table 3 - Redondo Flats High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Redondo Flats Zone																	
RFBSB-2015-01		< 0.561 U	1.23	25.1	3.49	0.0822 J	98.5	25.4	74.7	30.6	127	141	3.20	0.251 J	128 J	782	895
RFBSB-2015-02		0.869 J	2.16	44.4	4.00	< 0.0540 U	159	41.5	110	38.9	162	260	2.99 J	0.343 J	140 J	644	818
RFBSB-2015-03		14.8	42.7	1,010	45.1	< 0.118 U	2,590	974	3,370	394	1,780	3,760	40.2	5.69	2,300 J	11,200 J	7,880 J
RFBSB-2015-04		4.04	4.01	111	16.3	< 0.0823 U	418	95.7	287	108	423	566	9.47	0.687	404 J	2,100	2,610 J
RFBSB-2015-05		1.03	1.10	97.2	5.85	< 0.0495 U	371	5.91	109	63.2	384	497	5.33	0.523	318 J	1,860	2,100 J
RFBSB-2015-06		< 1.00 U	4.02	99.3	3.40	< 0.0520 U	746	66.1	683	42.1	630	860	3.88 J	1.02	588 J	3,730	4,510 J
RFBSB-2015-07		< 1.23 U	3.71	69.9	5.43	0.249 J	367	69.7	231	64.5	294	427	5.84	< 0.0578 U	351 J	1,750	1,900
RFBSB-2015-08		< 0.938 U	1.55	36.4	4.57	0.0430 J	302	10.2	75.8	36.2	308	294	2.51	0.528	364 J	2,130	2,120 J
RFBSB 2016-09		0.548 J	0.636	30.2 J	5.08 J	0.0781 J	87.0	10.4	58.4	38.8	112	169	2.61	0.201 J	111	631	714
RFBSB 2016-10		0.529 J	1.24	26.3 J	2.25 J	0.0451 J	108	24.3	105	23.4	171	148	1.43	0.587	170	1,080	1,070
RFBSB 2016-11		2.76	4.45	175 J	26.4 J	0.472 J	519	137	432	197	589	933	15.0	2.25	691	3,560	3,930 J
RFBSB 2016-12		0.540 J	1.26	27.4 J	5.34 J	0.0696 J	78.7	33.7	69.7	42.2	74.2	135	2.12	0.338 J	91.7	418	426
RFBSB 2016-13		0.562 J	0.977	28.2 J	2.31 J	0.0406 J	81.7	23.0	79.7	21.1	106	142	1.62	0.147 J	103	634	591
RFBSB 2016-14		0.926 J	1.85	70.5 J	6.84 J	0.229 J	190	50.0	149	61.6	216	390	5.76	0.417 J	158	1,100	1,350
RFBSB 2016-15		0.895 J	1.53	59.7 J	4.24 J	< 0.0267 U	243	77.1	225	44.1	243	412	3.82	0.894	323	1,770	1,650
RFBSB 2016-16		0.407 J	0.617	22.7 J	2.15 J	0.0515 J	74.6	23.6	64.9	16.5	93.4	134	1.48	0.197 J	115	654	720
RFBSB 2016-17		0.960 J	1.49	50.6 J	5.63 J	0.162 J	122	35.7	120	50.0	172	251	5.20	0.300 J	139	943	1,030
RFBSB 2016-18		0.349 J	0.408 J	13.8 J	1.71 J	0.0378 J	41.5	12.8	41.6	11.6	51.7	59.5	0.721	0.129 J	52.3	291	294
RFBSB 2016-19		0.634 J	1.54	85.8 J	2.35 J	0.0331 J	506	52.4	527	13.3	537	694	1.79	1.37	472	3,520	3,510 J
RFBSB 2016-20		1.76	3.10	73.9 J	9.03 J	0.295 J	222	70.4	203	83.2 J	242	369 J	5.94 J	0.290 J	221	1,330	1,420
RFBSB 2016-21		2.36	2.25	94.1 J	10.7 J	0.208 J	281	80.4	224	85.8 J	280	470 J	5.20 J	0.449 J	219	1,440	1,640
RFBSB 2016-22		2.17	1.77	69.1 J	11.9 J	0.421 J	180	49.9	138	89.6 J	181	354 J	9.45 J	0.308 J	191	1,020	1,200
RFBSB 2016-23		0.798 J	2.03	72.6 J	11.7 J	0.115 J	190	88.5	181	110 J	197	351 J	6.72 J	0.414 J	215	1,020	1,110
RFBSB 2016-24		0.851 J	1.18	66.9 J	7.94 J	0.112 J	190	65.8	157	73.5 J	185	321 J	5.61 J	0.280 J	170	989	1,160
RFBSB 2016-25		3.36	3.60	99.4 J	7.53 J	0.156 J	321	62.3	199	54.7 J	265	520 J	5.07 J	0.398 J	236	1,630	2,010 J
RFBSB 2016-26		0.414 J	0.824	17.7 J	1.64 J	< 0.0990 U	65.3	15.1	60.7	12.6 J	74.9	97.5 J	1.03 J	0.137 J	73.8	471	495
RFWC-2015-01		31.0	38.3	330	88.3	8.65	988	529	657	825	606	1,500	38.9	7.78	891 J	4,090 J	3,680 J
RFWC-2015-02		24.1	27.8	480	72.5	7.00	1,790	721	898	1,250	1,240	3,050	41.8	5.82	1,930 J	9,370 J	8,680 J
RFWC-2015-03		26.8	31.6	283	66.4	9.09	816	461	535	613	436	1,130	32.2	2.28	653 J	2,930	2,320
RFWC-2015-04		19.8	32.1	170	47.9	4.35	575	338	371	357	299	728	23.1	2.13	504 J	2,050	1,730
RFWC-2015-05		25.6	40.3	340	94.8	6.84	1,160	578	684	701	622	1,610	36.2	3.59	985 J	4,470 J	3,940 J
RFWC 2016-06		20.3	26.4	336 J	81.7 J	3.85 J	1,320	611	775	917 J	875	2,500 J	49.5 J	2.69	1,580	7,190 J	6,410 J
RFWC 2016-07		13.8	14.4	182 J	51.5 J	1.94 J	499	306	351	449 J	304	917 J	24.1 J	0.963	424	1,910	1,500
RFWC 2016-08		25.5	26.6	429 J	112 J	8.09 J	1,190	615	727	978 J	666	1,940 J	64.7 J	1.37 J	983	4,510	4,090 J

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
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 3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
- * Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
U - not detected
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Table 3 - Redondo Flats High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Redondo Flats Zone																	
RFBSB-2015-01	332	1,410	220	18.0	9.79	7.16	2.40	306	2,220 J	448	143	3,740 J	184	54.3	161	73.1	
RFBSB-2015-02	266	1,220	343	12.7	13.7	13.1	3.55	223	1,740 J	463	178	2,470 J	135	40.2	99.6	75.1	
RFBSB-2015-03	3,510 J	11,900 J	7,740 J	149	234	141	55.6	2,310	15,000 J	7,490 J	1,960	19,900 J	1,100	310	959	652	
RFBSB-2015-04	788	3,640	930	39.0	50.6	32.0	8.19	724	5,740 J	1,590	561	8,620 J	426	125	278	234	
RFBSB-2015-05	636	2,880	594	33.1	42.3	26.6	7.21	551	4,400 J	1,250	416	6,430 J	329	97.3	212	185	
RFBSB-2015-06	1,210	6,410 J	1,390	59.5	51.9	38.6	10.9	1,130	7,600 J	2,280	778	11,800 J	630	180	457	311	
RFBSB-2015-07	527	2,670	731	25.1	27.6	19.1	5.13	462	3,560 J	1,440	444	5,120 J	272	83.5	216	142	
RFBSB-2015-08	608	3,070	766	29.3	80.3	9.95	4.81	592	3,600 J	1,500	472	6,110 J	270	95.1	204	110	
RFBSB 2016-09	274	1,190 J	233	11.9	9.83	7.36	2.68	209	1,570 J	356	91.6	2,360 J	114	35.6	98.2	58.1	
RFBSB 2016-10	384	1,580 J	205	20.9	6.48	8.78	2.18	273	2,270 J	502	176	3,330 J	158	49.2	156	66.0	
RFBSB 2016-11	1,260	5,730 J	1,480	73.8	62.7	47.6	13.4	971	7,800 J	2,140	808	10,900 J	639	178	546	313	
RFBSB 2016-12	157	658 J	247	7.90	9.02	5.72	1.68	117	892 J	291	93.0	1,220 J	70.3	18.0	61.3	32.0	
RFBSB 2016-13	243	1,110 J	181	12.9	6.66	6.55	2.14	169	1,350 J	325	100	2,140 J	112	32.4	89.6	54.1	
RFBSB 2016-14	440	1,930 J	349	22.7	24.6	22.9	4.62	331	2,550 J	518	186	4,140 J	223	61.4	173	121	
RFBSB 2016-15	646	2,630 J	744	32.8	18.5	19.5	6.29	483	3,370 J	1,180	401	4,980 J	271	81.9	203	129	
RFBSB 2016-16	267	1,120 J	182	12.0	4.91	7.59	2.06	211	1,590 J	446	112	2,260 J	131	37.3	106	53.6	
RFBSB 2016-17	293	1,410 J	269	18.1	9.85	15.7	3.90	232	2,110 J	458	171	3,170 J	157	46.9	118	96.3	
RFBSB 2016-18	105	485 J	121	5.88	3.97	2.04	0.934	71.7	651 J	168	63.3	980 J	52.0	13.0	41.6	21.9	
RFBSB 2016-19	1,230	4,450 J	925	54.3	32.3	19.9	5.48	874	5,490 J	1,420	481	7,640 J	420	124	440	146	
RFBSB 2016-20	482	2,060 J	509	25.0	19.4	18.1	5.23	396	3,190	890	263	4,750 J	255	76.0	192	140	
RFBSB 2016-21	514	2,280 J	561	27.4	43.2	17.0	5.04	453	3,300	795	282	5,010 J	261	75.9	222	136	
RFBSB 2016-22	431	1,820 J	465	21.8	31.4	19.2	5.19	379	2,810	688	216	4,140 J	237	68.1	174	127	
RFBSB 2016-23	393	1,550 J	602	21.0	25.5	14.9	4.45	296	2,350	693	239	3,260 J	187	52.4	152	99.5	
RFBSB 2016-24	346	1,530 J	423	19.3	21.6	17.6	4.75	294	2,360	716	190	3,470 J	193	56.0	144	110	
RFBSB 2016-25	637	2,420 J	552	27.9	52.3	21.8	3.71	637	3,790	995	315	5,780 J	315	87.4	280	135	
RFBSB 2016-26	185	773 J	141	7.89	3.70	4.36	1.33	162	1,210	391	99.0	1,620	86.8	26.5	77.1	36.1	
RFWC-2015-01	982	4,340 J	3,000 J	54.4	192	82.0	11.1	967	7,040 J	4,070 J	1,090	8,330 J	546	159	463	262	
RFWC-2015-02	2,450 J	11,200 J	7,680 J	117	474	170	25.3	2,510	16,900 J	10,500 J	2,760 J	20,300 J	1,310	386	1,190	647	
RFWC-2015-03	675	2,860	2,210	34.0	123	53.6	7.88	639	4,420 J	2,860	765	5,150 J	340	102	336	170	
RFWC-2015-04	498	1,970	1,590	25.1	89.1	41.4	6.16	481	3,270 J	1,970	545	3,890 J	249	74.1	237	118	
RFWC-2015-05	1,050	4,470 J	3,280 J	54.1	205	90.1	13.7	1,130	7,490 J	4,680 J	1,230	9,040 J	595	173	508	296	
RFWC 2016-06	2,100	8,400 J	5,860 J	114	325	101	25.7	2,040	13,700 J	7,500 J	2,040	16,900 J	1,040	299	977	499	
RFWC 2016-07	543	1,960 J	1,710	26.3	85.0	32.8	6.83	411	2,960	1,820	462	2,980 J	217	59.1	204	123	
RFWC 2016-08	1,230	4,940 J	3,840 J	65.8	231	83.2	18.3	1,160	8,170 J	4,550	1,190	10,000 J	639	181	535	354	

Abbreviations

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PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

- Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
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Data Qualifiers

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Table 3 - Redondo Flats High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Redondo Flats Zone															
RFBSB-2015-01	1.35	0.583	443	139	1,280	1,100	360	21.5	256 J	71.0	380	38.2	146	89.7 J	16,000
RFBSB-2015-02	1.13	< 0.211 U	304	168	821	846	218	13.1	189 J	54.3	274	33.6	149	101 J	12,900
RFBSB-2015-03	6.97	3.19	1,860	1,160	5,390 J	5,660 J	1,620	80.2	1,010 J	299	1,510	227	472	161 J	128,000
RFBSB-2015-04	3.50	1.14	1,000	514	2,820 J	2,870	684	40.3	600 J	173	969	113	521	328 J	41,600
RFBSB-2015-05	2.63	0.905	777	356	2,250 J	2,340	535	34.8	580 J	148	863	95.1	524	335 J	32,800
RFBSB-2015-06	8.68	1.23	1,210	537	3,540 J	3,350	928	51.5	617 J	178	914	125	332	220 J	58,300
RFBSB-2015-07	4.45	0.670	675	391	1,820	1,890	487	29.7	392 J	124	648	86.6	299	208 J	28,300
RFBSB-2015-08	4.67 J	0.571	779	257	1,740	1,850	530	30.6	411 J	130	692	83.8	267	148 J	30,100
RFBSB 2016-09	1.10	0.288 J	254	99.3	683 J	730	196	10.7	157	48.6 J	244	24.6	145	104	11,300
RFBSB 2016-10	1.45	0.291 J	380	176	1,070 J	1,060	301	13.8	242	77.5 J	385	40.5	207	132	16,200
RFBSB 2016-11	6.25	1.22	1,330	758	3,750 J	3,660	1,000	58.4	845	268 J	1,250	147	618	324 J	58,200
RFBSB 2016-12	0.592	0.138 J	142	86.5	413 J	385	113	5.56	92.0	29.4 J	149	15.8	70.4	41.8	6,830
RFBSB 2016-13	0.860	0.179 J	205	110	593 J	654	174	9.06	126	38.8 J	209	21.8	118	90.0	10,100
RFBSB 2016-14	1.76	0.503	513	149	1,460 J	1,280	382	22.4	343	107 J	550	50.2	299	178	20,200
RFBSB 2016-15	2.54	0.456 J	571	345	1,480 J	1,670	466	24.4	353	121 J	561	67.5	279	163	26,400
RFBSB 2016-16	1.01	0.269 J	264	116	721 J	777	220	10.7	143	48.8 J	248	26.5	112	76.0 J	11,200
RFBSB 2016-17	1.49	0.339 J	372	219	1,030 J	1,050	252	16.1	238	67.7 J	332	37.3	201	133	15,500
RFBSB 2016-18	0.370 J	0.118 J	114	72.5	351 J	316	84.7	4.94	85.5	23.6 J	130	12.1	66.4	43.8	4,960
RFBSB 2016-19	4.32	0.611	842	227	2,420 J	2,010	734	33.2	568	190 J	908	99.4	458	253	42,400
RFBSB 2016-20	2.23	0.836	602	376	1,730	1,710	429	28.7	436	120	572	69.1	371	228	24,200
RFBSB 2016-21	2.26	0.550	621	234	1,720	1,640	472	26.0	392	123	550	64.0	359	222	25,200
RFBSB 2016-22	1.72	0.428 J	547	225	1,550	1,430	414	24.7	374	114	536	58.6	281	165	20,900
RFBSB 2016-23	1.59	0.551	450	251	1,250	1,150	329	19.3	307	90.4	404	50.2	220	110	18,100
RFBSB 2016-24	1.83	0.409 J	440	254 J	1,210	1,250	322	20.2	304	89.5	425	51.2	229	112	18,000
RFBSB 2016-25	3.12	0.426 J	820	216	2,230 J	2,080	677	31.4	599	208	924	102	489	248	30,100
RFBSB 2016-26	0.610	< 0.0830 U	204	109	546	603	172	8.13	118	42.8	188	23.1	110	90.9	8,430
RFWC-2015-01	10.9	0.444 J	1,360	1,140	3,810 J	4,390 J	1,110	37.7	914	334	1,760	212	1,050	505	62,500
RFWC-2015-02	23.7	< 8.31 U	3,410 J	2,450 J	9,110 J	9,660 J	2,650 J	58.6	1,980 J	750	3,770	470	2,280 J	1,070	146,000
RFWC-2015-03	7.50	< 2.92 U	860	775	2,370	2,810	761	24.3	615 J	241	1,220	148	758	364	42,000
RFWC-2015-04	5.73	< 5.97 U	689	575	1,870	2,080	572	19.3	544	182	960	123	646	302	30,900
RFWC-2015-05	11.6	< 5.84 U	1,590	1,310	4,340 J	4,750 J	1,240	45.9	1,170	366	1,940	241	1,300	639	68,600
RFWC 2016-06	10.6	0.651 J	2,560	2,170	7,010 J	6,490 J	1,860	55.8	1,630	602	2,570	332	1,650	933	112,000
RFWC 2016-07	2.17	0.249 J	508	452	1,410	1,420	378	16.0	345	123	570	69.2	386	225	26,500
RFWC 2016-08	6.53	0.642	1,660	1,500	4,720 J	4,590	1,200	54.6	1,300	473	1,960	257	1,570	962	73,800
IROD RAO (ingestion) [ng/kg]															70,000
OEHHA FCG (cancer effects) [ng/kg]															3,600
OEHHA FCG (noncancer effects) [ng/kg]															63,000

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

QCSR - Quality Control Summary Report

ug/kg - micrograms per kilogram

OEHHA - California EPA Office of Environmental Health Hazard Assessment

Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit

Table 4 - Ventura Flats High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Ventura Flats Zone																	
VFWC-2015-01	< 0.638 U	3.13	11.4	3.62	< 0.279 U	32.9	19.6	33.0	21.7	25.8	46.0	0.887 J	0.381 J	50.3 J	207	178	
VFWC-2015-02	< 0.687 U	2.76	8.23	3.06	0.125 J	24.0	14.8	24.5	13.8	16.4	29.7	0.474 J	0.253 J	35.0 J	155	123	
VFWC-2015-03	< 0.662 U	1.98	6.84	2.59	0.165 J	16.1	12.9	18.5	10.4	9.25	16.9	0.482 J	0.179 J	22.0 J	87.1	63.8	
VFWC-2015-04	< 0.686 U	5.94	18.5	6.99	0.480 J	51.6	31.6	51.5	37.5	32.5	60.9	1.52 J	0.448 J	65.6 J	276	204	
VFWC-2015-05	< 1.59 U	4.09	8.42	3.61	0.235 J	19.8	14.2	21.6	15.7	13.7	27.1	0.693 J	0.249 J	30.2 J	121	95.5	
VFWC-2015-06	< 0.926 U	4.15	8.31	5.63	0.225 J	32.7	19.4	30.2	26.9	22.5	39.4	0.786 J	0.269 J	42.8 J	179	140	
VFWC-2015-07	< 1.07 U	4.19	9.28	3.40	0.217 J	24.6	16.0	25.1	17.8	16.5	28.5	0.785 J	0.302 J	34.4 J	149	115	
VFWC-2015-08	< 0.478 U	2.63	8.84	3.98	0.134 J	23.1	16.9	25.5	17.2	15.1	25.9	0.662 J	0.116 J	27.5 J	115	90.6	
VFWC-2015-09	< 0.820 U	2.58	15.1	5.47	0.213 J	49.2	26.9	47.3	40.7	33.1	58.6	0.993 J	0.381 J	62.0 J	250	190	
VFWC-2015-10	< 0.662 U	5.18	15.6	8.74	0.471 J	53.1	33.8	59.1	45.8	28.4	54.2	1.70 J	0.397 J	63.5 J	252	174	
VFWC-2015-11	< 0.892 U	2.90	9.21	4.11	0.297 J	25.2	16.1	31.0	17.1	17.2	31.8	0.569 J	0.192 J	27.6 J	138	121	
VFWC-2015-12	< 1.46 U	2.81	6.68	3.31	0.269 J	17.6	12.5	18.3	12.7	10.4	19.2	0.553 J	0.187 J	26.3 J	103	78.4	
VFWC-2015-13	< 0.933 U	3.39	9.46	3.83	0.414 J	21.6	16.0	22.2	16.3	11.8	22.8	0.936 J	0.188 J	23.9 J	97.5	76.4	
VFWC-2015-14	< 0.828 U	2.43	8.20	4.62	0.118 J	20.5	14.8	22.4	15.3	12.5	21.2	0.593 J	0.166 J	27.5 J	109	79.1	
VFWC-2015-15	< 1.11 U	2.98	9.77	3.65	0.138 J	25.9	15.3	26.2	17.0	15.9	28.5	0.329 J	0.160 J	30.3 J	122	95.3	
VFWC-2015-16	< 1.74 U	1.68 J	6.46 J	3.38 J	< 0.471 U	26.1 J	14.5 J	22.6 J	19.2 J	17.1 J	30.7 J	0.557 J	0.282 J	36.8 J	142 J	103 J	
VFWC-2015-17	< 0.568 U	3.20	14.6	5.29	0.290 J	29.0	18.7	27.9	23.6	18.0	32.9	1.11	0.173 J	31.5 J	135	113	
VFWC-2015-18	< 1.44 U	2.58 J	10.4	4.20	0.325 J	29.1	17.5	27.3	19.8	17.9	32.2	0.758 J	0.189 J	34.4 J	144	112	
VFWC-2015-19	< 0.898 U	3.09	10.3	4.47	0.195 J	23.0	16.3	22.3	17.3	12.9	24.2	1.25 J	0.156 J	24.9 J	110	83.8	
VFWC-2015-20	< 1.08 U	2.24 J	7.77	3.69	0.306 J	23.7	15.0	23.9	17.3	15.4	27.9	0.780 J	0.120 J	30.8 J	125	111	
VFWC-2015-21	< 6.64 U	3.66	21.9	9.36	0.372 J	73.4	42.7	75.0	54.7	43.5	81.7	2.09	0.290 J	95.4 J	375	259	
VFWC-2015-22	< 4.86 U	6.01	17.0	8.04	0.574 J	47.5	29.2	43.3	35.8	29.3	54.1	1.78 J	0.220 J	65.1 J	257	206	
VFWC-2015-23	< 5.25 U	4.72	14.0	6.16	< 0.126 U	51.9	29.2	42.9	34.8	30.3	56.6	1.59 J	0.188 J	66.7 J	262	211	
VFWC-2015-24	< 3.24 U	6.64	17.0	8.76	< 0.167 U	55.9	30.6	50.4	41.0	46.5	64.4	1.97	0.216 J	84.4 J	345	256	
VFWC-2015-25	2.52 J	4.67	14.6	6.32	0.412 J	38.3	23.1	34.2	28.0	20.0	37.2	1.50 J	0.0306 J	42.1 J	170	134	
VFWC-2015-26	< 7.73 U	4.98	16.4	7.32	< 0.340 U	52.0	31.3	50.8	31.2	31.2	58.8	< 0.336 U	< 0.342 U	69.3 J	280	216	
VFWC-2015-27	< 4.06 U	5.07	14.9	7.94	0.705 J	41.8	25.5	38.9	31.5	22.4	42.0	1.66 J	0.108 J	51.7 J	209	151	
VFWC-2015-28	< 1.87 U	3.30	11.2	5.02	0.211 J	41.8	19.2	34.0	26.6	30.6	49.5	1.12 J	0.125 J	48.8 J	200	171	
VFWC-2015-29	< 3.79 U	4.52	13.5	5.71	0.634 J	33.5	24.6	35.8	25.1	32.3	38.6	0.826 J	< 0.289 U	47.1 J	183	137	
VFWC-2015-30	< 1.90 U	5.42	16.2	7.88	0.612 J	43.3	28.3	39.5	32.1	24.5	46.6	1.72 J	0.108 J	52.2 J	215	157	

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
 2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).
 3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
- * Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
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Table 4 - Ventura Flats High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Ventura Flats Zone																	
VFWC-2015-01		66.7	243	118	3.88	6.57	2.35	0.661 J	73.0	464 J	212	68.5	568	28.6	9.22	38.2	12.0
VFWC-2015-02		41.5	159	89.2	2.46	3.91	1.61	0.386 J	45.6	308 J	158	55.8	397	19.1	6.29	24.0	7.51
VFWC-2015-03		22.4	84.6	53.9	1.05 J	2.31	0.879 J	< 0.827 U	23.1	166 J	97.3	35.6	216	9.35	3.23	13.1	3.79
VFWC-2015-04		70.9	265	165	4.22	7.22	3.01	1.08 J	70.4	479 J	281	85.4	607	30.8	9.93	36.5	14.7
VFWC-2015-05		33.0	125	76.4	2.32	3.24	1.49 J	< 1.90 U	36.9	250 J	127	42.2	309	15.2	4.91	18.9	6.05
VFWC-2015-06		45.6	178	104	2.91	4.65	2.08	0.607 J	46.1	312 J	171	60.5	382	18.9	5.89	23.7	8.24
VFWC-2015-07		41.2	158	84.8	2.48	3.89	1.53 J	0.470 J	44.1	296 J	154	54.3	394	16.6	5.71	22.5	6.99
VFWC-2015-08		33.2	126	67.5	1.86	2.99	1.08 J	0.421 J	38.3	256 J	113	45.5	335	15.8	5.11	20.6	6.78
VFWC-2015-09		62.9	246	164	3.45	7.77	3.05	0.599 J	66.5	438 J	246	73.9	534	23.7	8.14	33.6	12.1
VFWC-2015-10		65.5	239	154	3.47	7.29	2.95	0.875 J	61.0	390 J	189	66.7	467	26.4	7.73	33.7	13.7
VFWC-2015-11		37.4	136	68.5	1.71 J	3.93	1.07 J	< 1.17 U	38.3	262 J	141	46.7	326	13.5	4.38	20.5	5.60
VFWC-2015-12		26.5	105	62.4	1.54 J	2.23 J	0.914 J	< 1.01 U	33.1	241 J	122	42.9	301	13.6	4.68	17.2	4.66
VFWC-2015-13		26.3	97.1	63.8	1.42 J	2.79	1.06 J	< 1.28 U	31.1	216 J	120	42.6	275	13.3	4.07	16.5	5.20
VFWC-2015-14		28.5	107	69.7	1.54 J	2.93	0.982 J	< 1.04 U	33.7	230 J	129	43.3	289	12.7	4.50	18.6	4.89
VFWC-2015-15		33.7	123	79.5	2.16 J	3.49	1.43 J	0.558 J	37.8	244 J	119	40.5	291	14.8	4.49	19.8	6.34
VFWC-2015-16		38.6 J	141 J	101 J	1.71 J	4.65 J	1.87 J	0.434 J	42.3 J	272 J	149 J	46.1 J	329 J	14.5 J	5.07 J	21.9 J	7.08 J
VFWC-2015-17		39.5	157	79.0	2.37	4.21	1.60	0.419 J	49.0	335 J	150	53.8	433	19.7	7.11	24.9	8.84
VFWC-2015-18		34.9	134	93.3	2.02 J	4.08	1.29 J	< 1.29 U	40.7	276 J	141	46.8	343	16.2	5.79	22.1	7.25
VFWC-2015-19		26.5	107	67.0	1.70 J	2.91	1.41 J	< 1.31 U	31.9	244 J	125	43.6	305	13.6	4.06 J	17.5	5.54
VFWC-2015-20		35.9	149	69.8	1.97 J	3.98	1.79 J	0.464 J	45.6	306 J	117	51.6	403	17.9	6.03	22.7	7.62
VFWC-2015-21		91.3	349	258	4.72	9.96	3.85	1.32 J	88.9	621 J	375	112	786	35.5	11.2	41.5	18.1
VFWC-2015-22		64.1	278	169	3.91	7.26	< 0.245 U	< 0.328 U	75.4	595 J	293	102	813	34.6	9.85	38.3	11.9
VFWC-2015-23		67.5	270	172	4.09	7.53	3.08	< 0.210 U	67.1	516 J	263	87.8	677	30.7	8.62	34.5	13.0
VFWC-2015-24		94.8	338	198	5.06	7.65	2.31	< 0.280 U	92.8	684 J	313	103	930	41.9	12.3	46.1	15.9
VFWC-2015-25		49.3	186	102	2.67	4.09	1.09 J	0.547 J	50.8	390 J	172	65.8	549	21.1	6.10 J	26.2	8.43
VFWC-2015-26		71.6	273	174	4.08	7.32	< 0.680 U	< 0.542 U	67.2	504 J	294	77.9 J	684	28.4	8.17	32.9	10.7
VFWC-2015-27		53.7	216	131	3.01	4.96	1.21 J	0.571 J	61.3	493 J	263	87.1	685	29.1	8.94	32.3	9.30
VFWC-2015-28		61.1	222	124	2.77	5.73	1.19 J	< 0.197 U	52.7	400 J	169	60.8	525	21.6	7.08	26.8	9.70
VFWC-2015-29		47.7	181	114	2.51 J	3.62 J	1.03 J	< 0.464 U	51.8	369 J	165	62.4	504	20.6	7.02	25.8	9.14
VFWC-2015-30		53.5	208	127	2.72	3.47 J	1.12 J	< 0.244 U	58.8	431 J	225	78.4	598	23.1	6.60	27.9	9.40

Abbreviations

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PCB - polychlorinated biphenyl
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Notes

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Table 4 - Ventura Flats High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Ventura Flats Zone															
VFWC-2015-01	1.24	< 0.743 U	75.4	53.1	192	251	67.6	0.866 J	37.6 J	16.8	78.7	8.45	30.2	11.8	3,370
VFWC-2015-02	1.32	< 0.536 U	55.6	42.8	149	188	50.3	0.672 J	27.7 J	12.2	59.6	7.15	23.3	9.96	2,400
VFWC-2015-03	0.665 J	< 0.480 U	25.9	24.4	74.0	116	26.8	< 0.238 U	13.4 J	5.27	30.1	3.52	11.9	5.49	1,340
VFWC-2015-04	1.42 J	< 1.16 U	78.0	66.6	219	254	68.2	1.48 J	40.9 J	15.7	75.8	9.61	29.7	12.2	3,850
VFWC-2015-05	0.715 J	< 0.854 U	47.8	38.2	122	156	40.5	0.562 J	24.4 J	10.4	48.0	6.40	19.8	9.75	1,960
VFWC-2015-06	0.948 J	< 0.475 U	46.9	39.3	122	159	41.1	0.703 J	21.9 J	9.52	41.0	5.67	17.2	7.68	2,430
VFWC-2015-07	0.925 J	< 0.589 U	49.7	38.9	135	187	48.7	0.509 J	24.5 J	10.1	55.0	5.89	19.7	9.33	2,320
VFWC-2015-08	1.21 J	< 0.567 U	44.0	27.1	121	155	37.9	0.576 J	23.6 J	10.0	48.4	5.00	21.6	11.0	1,950
VFWC-2015-09	2.08	< 0.728 U	58.9	57.6	139	211	50.4	0.998 J	28.4 J	12.6	55.6	7.06	24.2	12.0	3,370
VFWC-2015-10	1.09 J	< 1.20 U	52.0	43.7	138	171	49.7	1.28 J	21.9 J	9.77	45.5	6.43	16.9	7.77	3,090
VFWC-2015-11	0.897 J	< 1.19 U	36.3	32.1	100	130	33.1	0.767 J	15.5 J	6.43	28.3	4.12	11.3	6.35	1,960
VFWC-2015-12	0.696 J	< 1.07 U	42.5	38.0	118	163	38.3	< 0.512 U	24.2 J	10.2	50.9	5.55	23.9	9.82	1,820
VFWC-2015-13	0.703 J	< 0.732 U	40.2	33.6	114	146	36.3	0.496 J	24.2 J	10.4	54.2	6.13	24.9	11.6	1,750
VFWC-2015-14	1.01 J	< 0.705 U	38.4	32.9	109	138	35.4	0.360 J	20.2 J	8.67	40.7	5.29	19.3	8.82	1,780
VFWC-2015-15	0.885 J	< 0.650 U	39.0	26.9	98.6	124	32.3	0.596 J	18.4 J	7.60	35.5	3.93	14.2	6.17	1,820
VFWC-2015-16	1.19 J	< 1.30 U	39.0 J	32.2 J	98.3 J	150 J	36.1 J	0.600 J	18.6 J	8.26 J	40.4 J	4.48 J	17.7 J	7.21 J	2,060
VFWC-2015-17	1.46	< 0.576 U	56.7	45.3	160	221	54.9	0.953 J	33.9 J	13.8	67.7	7.60	30.4	11.7	2,530
VFWC-2015-18	1.25 J	< 0.690 U	44.9	32.9	117	153	37.6	0.649 J	22.6 J	9.24	42.3	5.12	18.3	8.77	2,120
VFWC-2015-19	0.835 J	< 0.718 U	42.1	36.1	122	161	39.6	0.338 J	26.8 J	9.58	57.3	6.18	28.5	11.6	1,900
VFWC-2015-20	1.08 J	< 0.906 U	48.1	31.4	127	187	42.2	0.520 J	26.6 J	11.0	54.7	4.92	26.7	11.3	2,220
VFWC-2015-21	< 0.159 U	< 0.188 U	90.1	79.9	225	315	72.6	1.79	44.7 J	17.1	88.2	8.99	33.4	15.9 J	4,950
VFWC-2015-22	< 0.392 U	< 0.459 U	122	92.6	364	405	107	< 0.217 U	90.3 J	33.8	166	17.8	63.5	28.5 J	4,790
VFWC-2015-23	< 0.181 U	< 0.208 U	81.9	62.0	235	260	75.0	< 0.298 U	43.3 J	15.3	80.0	9.45	28.6	13.4 J	3,940
VFWC-2015-24	< 0.306 U	< 0.385 U	117	88.8	314	346	93.5	1.76 J	65.9 J	25.9	113	14.2	44.4	19.4 J	5,140
VFWC-2015-25	< 0.100 U	< 0.108 U	63.9	43.4	182	216	59.1	0.649 J	35.2 J	12.4	64.6	5.93 J	23.5	11.4 J	2,910
VFWC-2015-26	< 0.448 U	< 0.489 U	72.5	63.3	202	251	67.3	< 0.433 U	36.9 J	14.6	69.3	6.70 J	26.5	12.7 J	3,920
VFWC-2015-27	0.379 J	< 0.240 U	93.2	72.8	260	330	87.2	0.845 J	55.2 J	20.8	110	12.9	40.0	15.6 J	3,830
VFWC-2015-28	< 0.239 U	< 0.281 U	53.1	35.4	144	175	48.4	0.789 J	25.2 J	9.92	50.4	5.32	18.0	9.49 J	2,910
VFWC-2015-29	< 0.418 U	< 0.507 U	64.1	46.1	178	188	48.0	< 0.423 U	37.5 J	15.0	62.2	6.33 J	27.7	12.9 J	2,840
VFWC-2015-30	< 0.185 U	< 0.211 U	68.7	56.1	197	242	64.3	< 0.180 U	37.6 J	15.7	75.1	8.21	28.0	12.1 J	3,330
IROD RAO (ingestion) [ng/kg]															70,000
OEHHHA FCG (cancer effects) [ng/kg]															3,600
OEHHHA FCG (noncancer effects) [ng/kg]															63,000

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

QCSR - Quality Control Summary Report

ug/kg - micrograms per kilogram

OEHHHA - California EPA Office of Environmental Health Hazard Assessment

Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit

Table 5 - Zone 1 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Zone 1																	
Z1WC-2014-23		62.9 J	190 J	742 J	336 J	34.1 J	1,360 J	960 J	1,240 J	1,330 J	872 J	1,870 J	68.9 J	5.83 J	753 J	2,990 J	2,630 J
Z1WC-2014-24		51.4 J	415 J	2,130 J	902 J	19.0 J	4,570 J	3,590 J	4,700 J	4,710 J	3,630 J	6,960 J	171 J	18.0 J	2,910 J	10,000 J	6,720 J
Z1WC-2014-25		47.3 J	271 J	1,580 J	812 J	49.4 J	2,960 J	2,530 J	3,220 J	3,970 J	2,540 J	4,830 J	163 J	15.5 J	2,010 J	6,460 J	4,000 J
Z1WC-2014-26		87.9 J	195 J	911 J	344 J	33.1 J	1,670 J	1,080 J	1,400 J	1,490 J	1,250 J	2,330 J	75.1 J	5.45 J	891 J	3,700 J	3,230 J
Z1WC-2014-27		66.7 J	562 J	1,850 J	1,190 J	66.2 J	3,670 J	3,430 J	4,280 J	4,980 J	3,000 J	5,420 J	169 J	13.1 J	2,190 J	6,640 J	3,860 J
Z1WC-2014-28		88.0 J	1,340 J	4,660 J	3,120 J	99.3 J	10,400 J	9,290 J	11,600 J	13,400 J	8,250 J	14,400 J	427 J	43.7 J	5,790 J	16,200 J	8,890 J
Z1WC-2014-29		88.4 J	238 J	1,040 J	367 J	29.2 J	2,010 J	1,290 J	1,630 J	1,540 J	1,230 J	2,720 J	81.4 J	5.75 J	980 J	4,020 J	3,930 J
Z1WC-2014-30		41.9 J	99.0 J	586 J	225 J	19.4 J	1,240 J	796 J	1,070 J	1,120 J	850 J	1,840 J	55.1 J	5.44 J	787 J	3,250 J	2,680 J

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
 2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).
 3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
- * Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
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Table 5 - Zone 1 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Zone 1																	
Z1WC-2014-23		741 J	3,330 J	2,130 J	45.7 J	130 J	68.2 J	8.58 J	579 J	4,020 J	2,310 J	688 J	5,130 J	298 J	90.3 J	293 J	165 J
Z1WC-2014-24		2,650 J	9,590 J	8,610 J	182 J	290 J	212 J	25.3 J	1,430 J	10,200 J	6,030 J	1,800 J	11,400 J	847 J	220 J	853 J	425 J
Z1WC-2014-25		1,840 J	6,150 J	5,860 J	129 J	165 J	136 J	16.0 J	853 J	5,930 J	3,850 J	1,100 J	6,290 J	531 J	129 J	580 J	258 J
Z1WC-2014-26		980 J	4,060 J	2,540 J	55.2 J	150 J	88.9 J	11.3 J	677 J	4,790 J	2,350 J	819 J	5,860 J	345 J	103 J	344 J	197 J
Z1WC-2014-27		1,840 J	5,980 J	6,300 J	135 J	156 J	141 J	14.9 J	732 J	5,210 J	3,330 J	959 J	5,330 J	467 J	110 J	522 J	222 J
Z1WC-2014-28		4,750 J	14,800 J	14,000 J	342 J	358 J	344 J	28.3 J	1,750 J	11,500 J	9,370 J	2,580 J	11,600 J	1,120 J	261 J	1,300 J	475 J
Z1WC-2014-29		1,110 J	4,920 J	2,770 J	65.0 J	190 J	96.6 J	13.2 J	905 J	6,050 J	3,180 J	988 J	7,730 J	432 J	133 J	415 J	242 J
Z1WC-2014-30		789 J	3,470 J	2,270 J	48.4 J	129 J	66.5 J	9.86 J	564 J	3,970 J	2,470 J	704 J	5,060 J	292 J	85.4 J	290 J	162 J

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
 2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).
 3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
- * Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
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Table 5 - Zone 1 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Zone 1															
Z1WC-2014-26	7.19 J	0.338 J	737 J	562 J	1,670 J	2,430 J	557 J	21.2 J	323 J	149 J	605 J	70.4 J	209 J	88.8 J	49,500
Z1WC-2014-27	6.48 J	0.213 J	825 J	566 J	2,280 J	1,830 J	643 J	25.4 J	323 J	133 J	677 J	76.1 J	187 J	94.9 J	80,500
Z1WC-2014-28	16.1 J	< 2.87 UJ	1,910 J	1,290 J	5,050 J	3,740 J	1,430 J	55.0 J	679 J	277 J	1,280 J	153 J	380 J	152 J	199,000
Z1WC-2014-29	9.40 J	0.607 J	973 J	711 J	2,160 J	2,860 J	664 J	26.4 J	451 J	186 J	864 J	91.0 J	291 J	116 J	59,800
Z1WC-2014-30	6.38 J	0.361 J	573 J	511 J	1,410 J	1,860 J	447 J	16.6 J	236 J	97.0 J	460 J	58.3 J	147 J	67.5 J	40,900
IROD RAO (ingestion) [ng/kg]															70,000
OEHHA FCG (cancer effects) [ng/kg]															3,600
OEHHA FCG (noncancer effects) [ng/kg]															63,000

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

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ug/kg - micrograms per kilogram

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Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit

Table 6 - Zone 2 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Zone 2																	
Z2BSB-2014-01		0.714 J	1.22 J	36.4 J	3.79 J	0.0588 J	121 J	33.0 J	115 J	33.9 J	135 J	174 J	1.14 J	0.638 J	112 J	460 J	461 J
Z2BSB-2014-02		0.956 J	2.43 J	121 J	10.2 J	0.203 J	383 J	147 J	351 J	158 J	423 J	700 J	7.24 J	1.53 J	356 J	1,340 J	1,220 J
Z2BSB-2014-03		1.44 J	1.77 J	134 J	2.68 J	< 0.208 UJ	717 J	11.4 J	362 J	22.2 J	397 J	512 J	0.934 J	2.87 J	513 J	3,280 J	2,380 J
Z2BSB-2014-04		< 1.55 U	2.66	95.4	5.50	0.135 J	453	58.3	454	59.1	585	494	2.98	0.691	532 J	2,320	2,200 J
Z2BSB-2014-05		347	961	2,520 J	887	103	1,550	951	1,600	325	1,080	1,110	7.31	0.897 J	694 J	4,010 J	3,860 J
Z2BSB-2014-06		< 1.04 U	3.60	165	5.17	< 0.0896 U	686	31.0	416	88.8	969	1,160	2.77	1.26	680 J	3,620	3,420 J
Z2BSB-2014-07		< 0.745 U	0.482 J	23.0	0.766	< 0.0556 U	72.6	23.8	65.8	10.8	84.0	85.4	< 0.0665 U	0.206 J	62.2 J	289	276
Z2BSB-2014-08		< 0.850 U	1.01	43.3	2.68	< 0.0557 U	154	36.8	124	23.3	149	158	0.387 J	0.198 J	112 J	538	530
Z2BSB-2014-09		< 0.955 U	2.14	105	4.53	0.108 J	426	34.6	339	60.6	439	621	2.66	0.728	448 J	1,770	1,440
Z2BSB-2014-10		5.08	10.4	259	9.04	< 0.0782 U	376	200	400	22.7	298	240	0.947	0.484 J	229 J	1,050	910
Z2BSB-2014-11		< 0.651 U	0.307 J	35.2	1.09	0.0774 J	160	30.5	135	9.13	158	185	< 0.0616 U	0.266 J	166 J	601	472
Z2BSB-2014-12		< 0.486 U	0.358 J	7.45	0.394 J	0.0251 J	35.5	6.06	29.1	2.62	49.9	40.3	0.115 J	0.0511 J	34.8 J	209	189
Z2WC-2014-01		69.6 J	288 J	1,310 J	641 J	26.2 J	3,030 J	2,360 J	2,990 J	3,070 J	2,270 J	4,600 J	132 J	10.1 J	1,920 J	7,160 J	5,300 J
Z2WC-2014-02		40.4 J	113 J	1,020 J	318 J	14.3 J	2,320 J	1,570 J	2,240 J	2,870 J	2,510 J	4,810 J	104 J	22.2 J	2,520 J	9,450 J	6,630 J
Z2WC-2014-03		30.9 J	129 J	1,430 J	498 J	14.8 J	3,220 J	2,430 J	3,350 J	3,450 J	2,960 J	5,470 J	120 J	28.0 J	2,240 J	9,260 J	5,920 J
Z2WC-2014-04		61.4 J	187 J	1,080 J	423 J	14.4 J	2,010 J	1,360 J	1,950 J	1,980 J	1,440 J	3,050 J	84.8 J	10.4 J	1,010 J	5,050 J	3,790 J
Z2WC-2014-05		58.4 J	217 J	1,640 J	629 J	20.9 J	3,060 J	2,310 J	2,810 J	3,200 J	2,600 J	5,060 J	107 J	17.6 J	1,860 J	8,040 J	5,520 J
Z2WC-2014-06		61.7 J	141 J	1,130 J	379 J	14.2 J	2,130 J	1,430 J	1,940 J	2,110 J	1,530 J	3,170 J	80.7 J	10.9 J	1,150 J	5,500 J	3,960 J
Z2WC-2014-07		69.2 J	182 J	1,700 J	587 J	16.3 J	3,230 J	2,300 J	2,980 J	3,630 J	2,770 J	5,360 J	140 J	25.1 J	2,110 J	9,440 J	6,830 J
Z2WC-2014-08		52.2 J	228 J	1,860 J	311 J	19.3 J	3,690 J	2,930 J	3,630 J	2,600 J	3,060 J	5,930 J	101 J	33.6 J	2,240 J	9,300 J	6,120 J
Z2WC-2014-09		55.5 J	149 J	1,470 J	476 J	11.8 J	2,520 J	1,920 J	2,320 J	2,720 J	1,890 J	3,830 J	97.7 J	18.8 J	1,420 J	6,220 J	4,090 J
Z2WC-2014-10		50.9 J	125 J	1,190 J	363 J	12.4 J	2,120 J	1,500 J	1,960 J	2,330 J	1,710 J	3,350 J	85.6 J	13.7 J	1,320 J	5,860 J	3,820 J
Z2WC-2014-11		48.9 J	134 J	699 J	291 J	18.2 J	1,310 J	911 J	1,350 J	1,430 J	860 J	1,720 J	63.1 J	1.99 J	923 J	3,560 J	2,360 J
Z2WC-2014-12		62.8 J	111 J	629 J	189 J	12.4 J	1,080 J	616 J	800 J	763 J	586 J	1,390 J	40.6 J	0.957 J	507 J	2,120 J	2,100 J
Z2WC-2014-13		56.7 J	69.8 J	483 J	118 J	7.35 J	780 J	463 J	585 J	583 J	473 J	1,060 J	25.7 J	0.959 J	431 J	1,830 J	1,620 J
Z2WC-2014-14		235 J	406 J	1,740 J	564 J	46.7 J	4,170 J	2,080 J	2,690 J	2,710 J	2,310 J	5,450 J	151 J	5.12 J	2,210 J	10,100 J	10,300 J
Z2WC-2014-15		167 J	412 J	3,490 J	1,090 J	42.2 J	6,880 J	5,140 J	6,660 J	8,030 J	5,830 J	11,200 J	292 J	11.7 J	5,760 J	18,500 J	11,900 J
Z2WC-2014-16		131 J	352 J	3,250 J	1,050 J	42.0 J	5,580 J	4,190 J	5,350 J	6,900 J	4,790 J	9,240 J	270 J	8.97 J	4,390 J	14,200 J	9,560 J
Z2WC-2014-17		88.6 J	787 J	4,100 J	2,080 J	24.9 J	8,450 J	6,750 J	8,310 J	9,280 J	6,670 J	12,600 J	326 J	24.4 J	5,370 J	16,200 J	10,500 J
Z2WC-2014-18		67.4 J	196 J	1,480 J	323 J	9.05 J	5,000 J	2,760 J	4,660 J	2,430 J	4,410 J	8,230 J	85.4 J	15.5 J	5,890 J	22,200 J	14,800 J
Z2WC-2014-19		192 J	512 J	3,970 J	1,450 J	50.2 J	7,400 J	5,500 J	7,030 J	8,700 J	5,960 J	11,800 J	337 J	20.5 J	5,460 J	18,600 J	12,600 J
Z2WC-2014-20		289 J	441 J	1,870 J	514 J	30.2 J	4,680 J	2,500 J	3,340 J	2,950 J	2,990 J	6,600 J	139 J	7.66 J	2,860 J	12,500 J	12,000 J
Z2WC-2014-21		123 J	319 J	2,560 J	1,130 J	62.4 J	5,040 J	3,790 J	5,090 J	6,920 J	4,320 J	8,440 J	305 J	5.99 J	4,060 J	13,500 J	8,480 J
Z2WC-2014-22		225 J	317 J	1,610 J	464 J	36.1 J	2,920 J	1,550 J	2,030 J	1,820 J	1,440 J	3,640 J	122 J	2.73 J	1,340 J	6,250 J	6,090 J
Z2WC-2014-23		37.9 J	108 J	886 J	315 J	8.40 J	1,970 J	1,490 J	1,900 J	2,300 J	1,780 J	3,440 J	80.4 J	2.14 J	1,590 J	5,430 J	3,570 J
Z2WC-2014-24		117 J	248 J	1,110 J	455 J	40.9 J	1,950 J	1,310 J	1,610 J	1,810 J	1,180 J	2,560 J	84.7 J	4.60 J	957 J	3,790 J	3,240 J
Z2WC-2014-25		168 J	399 J	2,930 J	1,070 J	44.3 J	5,650 J	4,630 J	5,640 J	7,030 J	4,740 J	9,480 J	257 J	12.4 J	4,460 J	13,900 J	8,760 J
Z2WC-2014-26		53.1 J	112 J	989 J	334 J	9.56 J	1,830 J	1,370 J	1,710 J	2,150 J	1,490 J	2,930 J	74.8 J	1.99 J	1,420 J	4,790 J	3,110 J
Z2WC-2014-27		56.6 J	215 J	1,040 J	563 J	32.8 J	2,110 J	1,710 J	2,130 J	2,700 J	1,570 J	3,170 J	109 J	3.14 J	1,390 J	4,390 J	2,800 J
Z2WC-2014-28		114 J	338 J	2,790 J	1,160 J	35.8 J	5,510 J	4,200 J	5,170 J	6,870 J	4,630 J	9,270 J	245 J	8.79 J	4,260 J	13,900 J	9,020 J

Table 6 - Zone 2 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Zone 2																	
Z2WC-2014-29		142 J	370 J	2,810 J	1,050 J	47.1 J	5,060 J	3,900 J	5,020 J	6,390 J	4,330 J	8,600 J	244 J	8.15 J	3,830 J	12,600 J	8,220 J
Z2WC-2014-30		42.0 J	80.1 J	547 J	171 J	11.3 J	1,210 J	689 J	1,040 J	940 J	866 J	1,840 J	41.3 J	0.934 J	1,050 J	4,470 J	3,270 J

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Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
 2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).
 3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
- * Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
U - not detected
UJ - not detected at an estimated detection limit

Table 6 - Zone 2 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Zone 2																	
Z2BSB-2014-01		210 J	838 J	189 J	11.5 J	4.64 J	8.30 J	2.51 J	147 J	1,120 J	302 J	99.2 J	1,440 J	115 J	31.7 J	79.2 J	51.1 J
Z2BSB-2014-02		538 J	2,100 J	617 J	29.9 J	14.2 J	35.1 J	5.38 J	312 J	2,370 J	939 J	284 J	3,050 J	211 J	60.9 J	193 J	112 J
Z2BSB-2014-03		785 J	3,130 J	953 J	26.4 J	26.1 J	12.8 J	4.37 J	606 J	4,820 J	2,380 J	674 J	7,000 J	308 J	87.2 J	415 J	126 J
Z2BSB-2014-04		1,070	3,490	661	60.1	13.1	17.1	4.07	627	4,280	1,170	430	5,840 J	375	104	352	117
Z2BSB-2014-05		1,640	6,250 J	970	116	30.6	50.3	8.70	1,120	7,680 J	2,090	802	10,600 J	751	182	609	243
Z2BSB-2014-06		1,670	5,260 J	872	93.9	43.4	39.6	7.55	906	5,740	1,840	384	7,840 J	541	143	542	209
Z2BSB-2014-07		151	493	97.6	7.77	1.73	1.93	0.621	72.8	558	129	47.4	794	51.6	14.3	39.1	14.0
Z2BSB-2014-08		212	758	184	11.1	3.77	4.15	0.870	125	856	301	98.3	1,140	66.0	17.3	62.7	25.0
Z2BSB-2014-09		763	2,430	445	39.0	9.72	30.9	4.28	430	2,760	963	317	3,320 J	229	62.7	215	104
Z2BSB-2014-10		402	1,380	324	23.6	10.0	9.74	1.67	213	1,560	385	170	2,180 J	145	35.6	128	43.8
Z2BSB-2014-11		230	732	381	12.5	10.9	4.27	1.21	119	792	366	113	910	60.6	15.6	67.5	20.5
Z2BSB-2014-12		105	375	69.8	5.45	2.30	1.18 J	0.731	72.3	492	105	33.2	649	48.4	13.9	31.2	16.4
Z2WC-2014-01		1,840 J	7,250 J	5,380 J	118 J	228 J	141 J	18.9 J	1,120 J	8,110 J	4,780 J	1,450 J	9,830 J	604 J	166 J	622 J	318 J
Z2WC-2014-02		2,630 J	10,300 J	7,370 J	179 J	248 J	174 J	21.6 J	1,580 J	11,600 J	6,240 J	1,830 J	11,900 J	994 J	248 J	1,060 J	438 J
Z2WC-2014-03		3,240 J	8,740 J	6,660 J	212 J	225 J	179 J	25.9 J	1,290 J	9,370 J	5,870 J	1,740 J	11,100 J	876 J	209 J	996 J	431 J
Z2WC-2014-04		1,650 J	4,940 J	3,520 J	92.9 J	179 J	93.4 J	20.7 J	870 J	6,050 J	3,610 J	1,060 J	7,510 J	465 J	125 J	507 J	262 J
Z2WC-2014-05		2,730 J	7,820 J	5,790 J	170 J	231 J	148 J	22.7 J	1,250 J	9,250 J	5,650 J	1,670 J	11,300 J	763 J	191 J	870 J	376 J
Z2WC-2014-06		1,760 J	5,180 J	3,920 J	110 J	185 J	94.8 J	19.2 J	981 J	6,790 J	4,140 J	1,190 J	8,300 J	546 J	145 J	599 J	298 J
Z2WC-2014-07		3,270 J	9,730 J	6,620 J	202 J	281 J	183 J	27.6 J	1,560 J	11,100 J	6,430 J	2,030 J	13,900 J	940 J	241 J	1,030 J	461 J
Z2WC-2014-08		3,400 J	9,000 J	6,830 J	219 J	236 J	200 J	27.2 J	1,320 J	9,440 J	5,920 J	1,810 J	11,100 J	864 J	203 J	979 J	436 J
Z2WC-2014-09		2,060 J	5,710 J	4,600 J	121 J	177 J	124 J	18.4 J	935 J	6,440 J	4,250 J	1,240 J	7,840 J	535 J	137 J	614 J	282 J
Z2WC-2014-10		1,950 J	5,500 J	4,210 J	116 J	157 J	114 J	17.5 J	909 J	6,290 J	3,860 J	1,120 J	8,060 J	539 J	136 J	571 J	278 J
Z2WC-2014-11		977 J	3,280 J	2,620 J	51.3 J	107 J	55.8 J	11.1 J	547 J	4,040 J	2,590 J	749 J	5,160 J	308 J	75.1 J	322 J	165 J
Z2WC-2014-12		603 J	2,220 J	1,570 J	28.9 J	109 J	46.9 J	7.50 J	455 J	2,890 J	1,790 J	478 J	3,690 J	177 J	60.4 J	175 J	109 J
Z2WC-2014-13		530 J	1,960 J	1,240 J	26.4 J	69.3 J	33.6 J	5.01 J	344 J	2,420 J	1,410 J	428 J	3,210 J	166 J	46.4 J	170 J	95.5 J
Z2WC-2014-14		2,910 J	11,900 J	6,400 J	142 J	507 J	197 J	33.9 J	2,510 J	16,000 J	8,210 J	2,690 J	22,100 J	1,010 J	330 J	1,030 J	587 J
Z2WC-2014-15		5,970 J	17,700 J	14,100 J	378 J	455 J	344 J	48.8 J	2,780 J	19,000 J	12,200 J	3,580 J	22,800 J	1,740 J	421 J	1,890 J	863 J
Z2WC-2014-16		4,540 J	13,900 J	10,500 J	296 J	380 J	285 J	38.7 J	2,110 J	14,800 J	8,980 J	2,630 J	17,800 J	1,310 J	308 J	1,480 J	686 J
Z2WC-2014-17		5,400 J	15,200 J	12,500 J	352 J	425 J	317 J	41.2 J	2,100 J	14,400 J	9,500 J	2,850 J	16,000 J	1,230 J	299 J	1,400 J	621 J
Z2WC-2014-18		6,180 J	21,800 J	13,600 J	391 J	542 J	274 J	48.3 J	3,620 J	26,600 J	16,200 J	5,030 J	35,300 J	2,170 J	526 J	2,570 J	1,000 J
Z2WC-2014-19		5,860 J	17,600 J	14,000 J	359 J	516 J	311 J	50.7 J	2,750 J	18,500 J	11,800 J	3,400 J	23,000 J	1,620 J	396 J	1,710 J	849 J
Z2WC-2014-20		3,610 J	14,100 J	8,160 J	189 J	556 J	217 J	36.0 J	2,740 J	18,600 J	9,430 J	3,070 J	24,700 J	1,230 J	388 J	1,330 J	720 J
Z2WC-2014-21		4,020 J	12,500 J	10,300 J	252 J	342 J	242 J	32.2 J	1,850 J	12,800 J	8,840 J	2,620 J	15,400 J	1,110 J	272 J	1,230 J	567 J
Z2WC-2014-22		1,610 J	6,440 J	4,320 J	69.2 J	323 J	122 J	21.9 J	1,310 J	8,110 J	5,240 J	1,450 J	11,000 J	515 J	176 J	506 J	334 J
Z2WC-2014-23		1,830 J	5,430 J	3,920 J	113 J	138 J	107 J	13.3 J	844 J	5,770 J	3,500 J	1,050 J	7,120 J	618 J	132 J	604 J	296 J
Z2WC-2014-24		1,100 J	3,750 J	2,830 J	54.9 J	153 J	71.4 J	11.0 J	700 J	4,540 J	2,760 J	792 J	5,720 J	300 J	93.1 J	301 J	179 J
Z2WC-2014-25		4,510 J	13,200 J	11,300 J	292 J	348 J	266 J	34.8 J	1,930 J	13,500 J	8,820 J	2,600 J	16,000 J	1,190 J	293 J	1,310 J	591 J
Z2WC-2014-26		1,490 J	4,490 J	3,660 J	90.3 J	121 J	76.8 J	12.1 J	710 J	5,100 J	3,160 J	887 J	6,130 J	427 J	106 J	471 J	220 J
Z2WC-2014-27		1,390 J	4,040 J	3,600 J	82.9 J	116 J	80.8 J	11.6 J	572 J	4,120 J	2,780 J	796 J	4,860 J	340 J	83.6 J	381 J	170 J
Z2WC-2014-28		4,410 J	13,100 J	10,500 J	279 J	354 J	265 J	34.9 J	1,960 J	13,700 J	8,720 J	2,550 J	16,400 J	1,230 J	296 J	1,320 J	614 J

Table 6 - Zone 2 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Zone 2																	
Z2WC-2014-29		4,000 J	12,100 J	9,620 J	251 J	333 J	249 J	32.4 J	1,720 J	12,000 J	7,730 J	2,310 J	14,500 J	1,110 J	269 J	1,170 J	558 J
Z2WC-2014-30		1,300 J	4,500 J	3,060 J	64.5 J	150 J	55.8 J	12.2 J	788 J	5,290 J	3,090 J	912 J	6,700 J	401 J	104 J	463 J	198 J

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).
3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
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Table 6 - Zone 2 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Zone 2															
Z2BSB-2014-01	1.64 J	0.254 J	279 J	117 J	709 J	632 J	175 J	13.9 J	190 J	70.0 J	279 J	36.5 J	160 J	128 J	9,130
Z2BSB-2014-02	3.43 J	0.330 J	493 J	293 J	1,340 J	1,140 J	351 J	23.3 J	316 J	116 J	481 J	61.6 J	206 J	136 J	21,100
Z2BSB-2014-03	7.27 J	0.638 J	791 J	361 J	2,210 J	2,740 J	853 J	34.6 J	392 J	148 J	630 J	108 J	260 J	106 J	38,300
Z2BSB-2014-04	2.91	< 0.179 U	751	326	1,970	1,750	567	29.1	328	124	535	63.1	129	60.8	32,500
Z2BSB-2014-05	5.57	0.452 J	1,450	574	4,030 J	3,240	1,090	58.4	634	233	1,050	115	220	105	66,000
Z2BSB-2014-06	4.15	0.629	1,090	251	2,990 J	2,650	928	42.2	522	198	910	108	227	147	47,400
Z2BSB-2014-07	0.510	< 0.105 U	99.4	40.0	266	227	73.2	4.33	52.5	18.7	80.6	8.77	26.9	18.3	4,390
Z2BSB-2014-08	0.518	< 0.103 U	138	80.5	386	375	110	5.46	83.5	27.6	130	14.7	50.2	29.7	7,170
Z2BSB-2014-09	1.49	< 0.179 U	434	201	1,160	990	321	16.5	203	68.5	303	35.2	77.4	36.9	21,700
Z2BSB-2014-10	1.18	< 0.108 U	300	119	832	677	239	10.9	160	56.6	259	28.8	74.5	39.4	13,800
Z2BSB-2014-11	0.389 J	< 0.106 U	109	83.7	296	287	97.6	4.14	52.4	19.2	81.2	12.0	24.7	14.7	6,870
Z2BSB-2014-12	< 0.0704 U	< 0.0897 U	120	46.6	288	255	77.5	5.34	77.2	30.8	120	13.0	56.7	52.5	3,770
Z2WC-2014-01	11.5 J	0.392 J	1,250 J	938 J	3,090 J	3,660 J	995 J	31.1 J	525 J	217 J	1,010 J	121 J	331 J	147 J	89,500
Z2WC-2014-02	13.8 J	0.261 J	2,240 J	1,310 J	6,000 J	5,320 J	1,760 J	33.9 J	959 J	384 J	1,990 J	231 J	580 J	321 J	115,000
Z2WC-2014-03	7.29 J	0.428 J	1,750 J	1,230 J	5,010 J	3,890 J	1,400 J	41.9 J	1,010 J	364 J	1,670 J	169 J	507 J	268 J	109,000
Z2WC-2014-04	5.34 J	0.673 J	966 J	805 J	2,460 J	2,420 J	742 J	26.7 J	429 J	176 J	772 J	86.9 J	205 J	82.3 J	63,600
Z2WC-2014-05	7.18 J	0.338 J	1,690 J	1,210 J	4,440 J	4,090 J	1,380 J	36.4 J	951 J	350 J	1,610 J	179 J	557 J	287 J	102,000
Z2WC-2014-06	5.65 J	0.463 J	1,280 J	1,030 J	3,390 J	3,190 J	1,000 J	34.7 J	730 J	282 J	1,220 J	125 J	400 J	172 J	71,900
Z2WC-2014-07	10.0 J	0.427 J	1,920 J	1,410 J	5,060 J	4,670 J	1,510 J	42.6 J	1,000 J	381 J	1,630 J	176 J	488 J	280 J	118,000
Z2WC-2014-08	6.94 J	0.196 J	1,720 J	1,270 J	4,810 J	3,800 J	1,390 J	45.7 J	939 J	361 J	1,510 J	159 J	454 J	244 J	111,000
Z2WC-2014-09	5.39 J	0.289 J	1,160 J	912 J	3,140 J	2,810 J	938 J	29.9 J	667 J	254 J	1,110 J	120 J	356 J	193 J	76,000
Z2WC-2014-10	5.20 J	0.381 J	1,190 J	887 J	3,320 J	2,850 J	963 J	31.0 J	693 J	255 J	1,140 J	125 J	389 J	208 J	71,700
Z2WC-2014-11	3.07 J	< 0.323 UJ	674 J	535 J	1,810 J	1,690 J	551 J	18.6 J	276 J	107 J	550 J	61.9 J	156 J	70.4 J	43,200
Z2WC-2014-12	3.21 J	0.370 J	378 J	442 J	666 J	1,520 J	253 J	13.7 J	171 J	83.7 J	335 J	26.7 J	129 J	61.1 J	29,500
Z2WC-2014-13	2.12 J	< 0.336 UJ	401 J	314 J	947 J	1,150 J	310 J	10.2 J	188 J	74.6 J	334 J	34.2 J	106 J	49.3 J	24,700
Z2WC-2014-14	18.3 J	0.964 J	2,340 J	2,040 J	4,630 J	8,010 J	1,600 J	54.1 J	1,120 J	493 J	2,060 J	171 J	687 J	256 J	145,000
Z2WC-2014-15	12.4 J	0.665 J	3,670 J	2,710 J	10,300 J	8,000 J	2,910 J	102 J	1,950 J	714 J	3,350 J	367 J	1,020 J	585 J	225,000
Z2WC-2014-16	10.9 J	0.649 J	2,750 J	1,990 J	7,630 J	6,040 J	2,270 J	75.8 J	1,450 J	530 J	2,460 J	269 J	697 J	339 J	176,000
Z2WC-2014-17	10.7 J	0.768 J	2,280 J	1,730 J	6,360 J	5,400 J	1,890 J	64.3 J	1,110 J	421 J	1,960 J	219 J	518 J	266 J	196,000
Z2WC-2014-18	24.5 J	0.961 J	4,910 J	3,500 J	13,700 J	11,600 J	4,120 J	79.0 J	2,450 J	902 J	4,300 J	461 J	1,210 J	532 J	256,000
Z2WC-2014-19	13.5 J	0.921 J	3,440 J	2,550 J	9,190 J	7,820 J	2,680 J	97.3 J	1,750 J	642 J	2,990 J	328 J	901 J	435 J	225,000
Z2WC-2014-20	18.7 J	1.14 J	3,080 J	2,380 J	6,960 J	9,060 J	2,300 J	61.6 J	1,440 J	576 J	2,520 J	247 J	804 J	315 J	173,000
Z2WC-2014-21	9.73 J	0.517 J	2,470 J	1,750 J	7,030 J	5,640 J	2,030 J	61.8 J	1,280 J	476 J	2,350 J	244 J	704 J	378 J	161,000
Z2WC-2014-22	8.54 J	1.18 J	1,130 J	1,250 J	2,120 J	4,300 J	751 J	39.2 J	532 J	249 J	957 J	82.6 J	371 J	169 J	83,400
Z2WC-2014-23	4.40 J	< 0.266 UJ	1,420 J	845 J	3,790 J	2,560 J	985 J	39.9 J	830 J	274 J	1,270 J	120 J	406 J	186 J	69,100
Z2WC-2014-24	3.59 J	< 0.198 UJ	665 J	621 J	1,460 J	2,240 J	478 J	21.2 J	384 J	148 J	660 J	57.0 J	217 J	90.5 J	50,900

Table 6 - Zone 2 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Zone 2															
Z2WC-2014-25	9.12 J	< 0.335 UJ	2,430 J	1,770 J	6,830 J	5,290 J	1,900 J	64.0 J	1,210 J	446 J	2,080 J	216 J	558 J	283 J	168,000
Z2WC-2014-26	3.56 J	< 0.186 UJ	962 J	724 J	2,710 J	2,310 J	779 J	25.6 J	601 J	212 J	1,000 J	105 J	301 J	164 J	59,400
Z2WC-2014-27	2.99 J	< 0.215 UJ	687 J	529 J	1,880 J	1,700 J	563 J	19.5 J	341 J	137 J	637 J	66.9 J	179 J	103 J	54,300
Z2WC-2014-28	8.55 J	0.529 J	2,420 J	1,750 J	6,800 J	5,490 J	1,950 J	67.0 J	1,230 J	436 J	2,070 J	228 J	611 J	309 J	167,000
Z2WC-2014-29	9.59 J	0.619 J	2,250 J	1,600 J	6,140 J	5,010 J	1,800 J	63.1 J	1,150 J	412 J	1,980 J	210 J	578 J	286 J	152,000
Z2WC-2014-30	4.39 J	< 0.219 UJ	721 J	560 J	1,740 J	1,990 J	582 J	17.2 J	307 J	123 J	568 J	62.7 J	172 J	77.5 J	50,300
IROD RAO (ingestion) [ng/kg]															70,000
OEHHA FCG (cancer effects) [ng/kg]															3,600
OEHHA FCG (noncancer effects) [ng/kg]															63,000

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

QCSR - Quality Control Summary Report

ug/kg - micrograms per kilogram

OEHHA - California EPA Office of Environmental Health Hazard Assessment

Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit

Table 7 - Zone 3 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Zone 3																	
Z3BSB-2014-01		< 0.564 U	0.412 J	14.1	1.86	< 0.0932 U	54.9	14.3	43.9	14.3	71.3	65.9	0.805	0.270 J	51.7 J	268	290
Z3BSB-2014-02		< 0.807 U	0.650	11.9	1.91	< 0.146 U	29.1	10.3	25.1	12.5	36.8	44.1	0.646	0.121 J	32.4 J	179	205
Z3BSB-2014-03		0.698 J	1.28	61.9	3.94	< 0.202 U	350	52.2	234	41.5	384	357	1.63	1.58	404 J	2,110	2,360 J
Z3BSB-2014-04		< 0.475 U	0.682 J	44.7 J	2.24	< 0.227 U	247 J	23.5 J	170 J	33.4 J	226 J	235 J	0.851 J	1.13	306 J	1,430 J	1,470 J
Z3BSB-2014-05		2.21	3.09	149	17.5	0.217 J	445	91.8	330	140	579	783	6.22	1.10	379	2,460	2,900 J
Z3BSB-2014-06		0.710 J	0.920	22.3	3.24	< 0.0376 U	76.8	3.54	29.4	19.8	112	125	1.78	0.128 J	92.9	533	543
Z3BSB-2014-07		0.526 J	0.785	230 J	164 J	1.45	97.5	28.2	119 J	111	120	208	7.88	0.442 J	71.5	379	384
Z3BSB-2014-08		3.25	2.41	70.9	12.9	0.102 J	247	48.0	190	81.9	274	353	4.57	0.364 J	294	1,780	1,800
Z3BSB-2014-09		0.679 J	0.792	15.9	2.74	< 0.0400 U	49.9	18.4	39.8	19.2	50.3	71.0	0.838	0.0625 J	50.7	275	334
Z3BSB-2014-10		1.08	1.54	31.9	3.50	0.0582 J	80.1	10.3	69.1	30.7	97.2	142	1.37	0.148 J	86.8	544	508
Z3BSB-2014-11		1.20	1.41	64.3	4.59	0.102 J	269	52.7	224	36.6	260	404	2.96	0.543	233	1,420	1,350
Z3BSB-2014-12		6.79	6.96	120	15.2	0.386 J	290	104	242	95.5	335	490	8.24	0.424 J	264	1,560	1,810
Z3BSB-2014-13		0.406 J	0.477 J	21.1	2.70	0.0324 J	38.9	9.96	40.9	18.1	86.5	91.9	1.25	0.103 J	43.4	273	347
Z3BSB-2014-14		0.504 J	0.738	25.8	3.58	< 0.0225 U	61.4	21.1	72.1	29.3	130	118	1.32	0.0685 J	89.3	702	704
Z3WC-2014-01		43.9 J	63.9 J	557 J	159 J	12.1 J	1,510 J	786 J	1,060 J	1,260 J	931 J	2,170 J	62.1 J	5.89 J	890 J	4,100 J	3,420 J
Z3WC-2014-02		23.4 J	31.3 J	406 J	102 J	5.96 J	1,410 J	654 J	862 J	1,060 J	937 J	2,130 J	49.2 J	5.98 J	951 J	4,460 J	3,710 J
Z3WC-2014-03		10.7 J	19.0 J	300 J	96.4 J	5.81 J	784 J	465 J	586 J	793 J	546 J	1,320 J	37.0 J	3.68 J	521 J	2,210 J	1,670 J
Z3WC-2014-04		10.9 J	35.2 J	658 J	118 J	5.18 J	1,960 J	1,220 J	1,540 J	1,570 J	1,770 J	3,620 J	51.6 J	10.4 J	1,910 J	7,280 J	5,370 J
Z3WC-2014-05		14.6 J	26.4 J	377 J	93.5 J	3.19 J	1,060 J	530 J	805 J	736 J	677 J	1,410 J	31.1 J	6.11 J	628 J	2,780 J	2,070 J
Z3WC-2014-06		27.4 J	47.0 J	587 J	161 J	6.95 J	2,090 J	1,110 J	1,350 J	1,660 J	1,410 J	3,190 J	75.1 J	9.81 J	1,520 J	6,740 J	5,300 J
Z3WC-2014-07		51.3 J	111 J	832 J	313 J	17.5 J	1,570 J	1,080 J	1,530 J	1,950 J	1,220 J	2,480 J	86.5 J	2.81 J	997 J	4,670 J	3,160 J
Z3WC-2014-08		21.8 J	39.0 J	451 J	97.9 J	3.66 J	1,090 J	573 J	670 J	775 J	604 J	1,510 J	39.7 J	1.64 J	481 J	3,040 J	2,480 J
Z3WC-2014-09		44.0 J	57.8 J	417 J	113 J	12.8 J	949 J	482 J	630 J	638 J	457 J	1,260 J	44.9 J	1.66 J	381 J	2,270 J	2,100 J
Z3WC-2014-10		68.0 J	84.7 J	495 J	127 J	17.5 J	1,340 J	679 J	840 J	952 J	693 J	1,870 J	66.5 J	1.59 J	720 J	4,390 J	3,800 J
Z3WC-2014-11		28.2 J	43.6 J	485 J	104 J	6.35 J	1,240 J	673 J	862 J	1,050 J	788 J	1,730 J	52.2 J	3.95 J	682 J	2,940 J	2,360 J
Z3WC-2014-12		11.9 J	21.4 J	431 J	90.5 J	3.67 J	1,580 J	767 J	1,010 J	1,190 J	1,290 J	2,590 J	40.2 J	4.78 J	1,310 J	5,070 J	4,230 J
Z3WC-2014-13		59.8 J	199 J	1,970 J	738 J	23.1 J	4,660 J	3,060 J	3,830 J	4,850 J	3,610 J	7,550 J	181 J	18.0 J	3,740 J	13,600 J	9,570 J
Z3WC-2014-14		27.3 J	66.4 J	783 J	144 J	6.53 J	1,830 J	938 J	1,250 J	1,170 J	1,200 J	2,730 J	58.1 J	6.78 J	1,160 J	5,310 J	4,810 J
Z3WC-2014-15		13.9 J	19.1 J	355 J	100 J	10.6 J	838 J	488 J	638 J	786 J	558 J	1,280 J	32.9 J	2.65 J	600 J	2,420 J	1,790 J
Z3WC-2014-16		69.2 J	577 J	2,530 J	805 J	42.5 J	3,900 J	3,190 J	4,020 J	2,720 J	2,260 J	3,940 J	76.3 J	6.14 J	1,580 J	5,550 J	4,050 J
Z3WC-2014-17		14.9 J	19.3 J	157 J	52.9 J	7.28 J	419 J	235 J	316 J	351 J	221 J	545 J	19.2 J	1.19 J	258 J	1,210 J	913 J
Z3WC-2014-18		22.8 J	118 J	1,030 J	1,020 J	51.1 J	1,950 J	1,590 J	1,950 J	2,730 J	1,600 J	3,070 J	123 J	6.73 J	1,430 J	4,970 J	3,250 J
Z3WC-2014-19		10.9 J	13.9 J	115 J	33.9 J	4.63 J	270 J	163 J	177 J	216 J	141 J	361 J	13.8 J	0.694 J	162 J	716 J	563 J
Z3WC-2014-20		7.51 J	7.17 J	160 J	28.9 J	2.93 J	357 J	198 J	223 J	317 J	244 J	549 J	10.1 J	1.02 J	305 J	1,280 J	1,120 J
Z3WC-2014-21		19.1 J	31.4 J	379 J	90.9 J	7.59 J	1,070 J	531 J	635 J	697 J	778 J	1,740 J	35.0 J	2.47 J	867 J	3,840 J	3,320 J
Z3WC-2014-22		15.7 J	26.1 J	380 J	109 J	10.6 J	929 J	510 J	657 J	857 J	607 J	1,390 J	37.5 J	2.49 J	672 J	3,000 J	2,290 J

Table 7 - Zone 3 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	8	18	28	31	37	49	44	52	70	74	66	77*	81*	87	101	99
Zone 3																	
Z3WC-2014-23		20.3 J	37.8 J	501 J	148 J	17.1 J	996 J	598 J	739 J	893 J	652 J	1,580 J	49.5 J	2.79 J	595 J	2,580 J	2,320 J
Z3WC-2014-24		10.8 J	22.1 J	326 J	82.3 J	6.94 J	892 J	520 J	629 J	697 J	569 J	1,260 J	27.5 J	2.59 J	558 J	2,450 J	1,800 J
Z3WC-2014-25		21.4 J	48.9 J	502 J	175 J	14.0 J	1,260 J	775 J	1,120 J	1,170 J	964 J	1,960 J	59.7 J	2.70 J	1,170 J	4,910 J	3,510 J
Z3WC-2014-26		23.9 J	31.7 J	365 J	89.3 J	10.6 J	847 J	487 J	549 J	703 J	461 J	1,110 J	36.3 J	1.07 J	460 J	2,050 J	1,590 J
Z3WC-2014-27		7.15 J	18.8 J	389 J	82.2 J	6.15 J	1,000 J	661 J	900 J	706 J	724 J	1,510 J	24.8 J	1.38 J	713 J	2,900 J	2,090 J
Z3WC-2014-28		22.4 J	32.0 J	422 J	98.2 J	15.3 J	1,120 J	551 J	699 J	839 J	694 J	1,620 J	45.3 J	2.14 J	680 J	3,260 J	2,820 J
Z3WC-2014-29		10.1 J	19.6 J	316 J	61.2 J	7.22 J	659 J	352 J	456 J	508 J	375 J	941 J	24.9 J	1.08 J	423 J	2,020 J	1,580 J
Z3WC-2014-30		20.4 J	25.1 J	351 J	84.5 J	15.6 J	962 J	487 J	625 J	788 J	578 J	1,340 J	42.5 J	1.86 J	588 J	2,780 J	2,290 J

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

QCSR - Quality Control Summary Report

ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit

Table 7 - Zone 3 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/Sample ID	PCB#	105*	118*	110	114*	119	123*	126*	128	138	149	151	153	156*	157*	158	167*
Zone 3																	
Z3BSB-2014-01		84.3	420	84.3	5.22	2.65	3.51	0.790	70.0	540 J	160	69.8	741	41.1	11.7	34.3	20.2
Z3BSB-2014-02		77.0	385	68.5	5.04	5.55	2.28	0.489 J	71.7	574 J	111	40.5	832	52.3	15.5	38.7	14.1
Z3BSB-2014-03		718	3,360	751	39.5	21.9	13.3	3.01	697	4,740 J	1,510	496	6,080 J	382	112	312	117
Z3BSB-2014-04		453 J	2,180 J	604 J	24.4 J	15.7 J	10.1 J	2.49 J	448 J	3,050 J	1,100 J	407 J	4,030 J	252 J	71.7 J	209 J	85.5 J
Z3BSB-2014-05		851	3,710	683	48.4	36.3	32.1	6.04	612	4,750	1,120	446	7,420 J	389	107	311	178
Z3BSB-2014-06		179	742	135	9.88	6.41	4.47	1.57	112	1,000	283	81.5	1,500	73.5	19.1	58.5	34.7
Z3BSB-2014-07		134	572	187	7.93	5.92	6.73	1.72	101	916	255	88.7	1,370 J	62.0	15.7	48.0	38.2
Z3BSB-2014-08		595	2,590	572	31.1	57.5	14.8	4.67	514	3,910	1,260	350	5,790 J	307	81.2	254	129
Z3BSB-2014-09		98.1	413	127	5.17	4.82	2.78	0.758	85.1	700	292	69.3	1,000	49.3	13.4	42.7	18.9
Z3BSB-2014-10		173	877	191	10.8	8.09	5.20	1.62	151	1,250	321	88.6	2,220 J	104	21.9	80.6	38.1
Z3BSB-2014-11		437	1,920	511	23.0	15.1	14.8	2.90	361	2,710	960	296	3,830 J	207	56.5	168	88.5
Z3BSB-2014-12		520	2,350	615	29.5	28.3	19.8	4.60	378	3,200	909	296	4,900 J	255	71.8	204	115
Z3BSB-2014-13		101	519	79.1	6.44	4.40	4.20	1.25	57.1	601	121	33.9	1,020	49.9	14.1	32.0	29.2
Z3BSB-2014-14		216	1,070	141	14.4	5.67	6.43	1.60	160	1,490	330	85.4	2,460 J	126	33.8	92.6	52.3
Z3WC-2014-01		998 J	4,310 J	2,820 J	58.5 J	177 J	89.5 J	12.2 J	824 J	5,940 J	3,410 J	931 J	7,260 J	430 J	131 J	431 J	244 J
Z3WC-2014-02		1,130 J	4,720 J	3,240 J	64.9 J	187 J	84.1 J	11.5 J	873 J	6,720 J	3,920 J	1,080 J	8,210 J	495 J	144 J	539 J	262 J
Z3WC-2014-03		608 J	2,210 J	1,630 J	36.0 J	87.4 J	45.8 J	6.70 J	408 J	3,050 J	1,780 J	488 J	3,640 J	234 J	64.5 J	252 J	130 J
Z3WC-2014-04		2,320 J	7,970 J	5,610 J	148 J	240 J	139 J	19.3 J	1,450 J	10,800 J	5,540 J	1,680 J	12,700 J	923 J	244 J	987 J	425 J
Z3WC-2014-05		711 J	2,730 J	1,950 J	41.7 J	107 J	48.6 J	8.53 J	480 J	3,640 J	2,190 J	596 J	4,590 J	274 J	78.0 J	305 J	152 J
Z3WC-2014-06		1,670 J	7,160 J	4,840 J	98.8 J	260 J	125 J	20.7 J	1,310 J	9,740 J	5,500 J	1,620 J	11,800 J	765 J	216 J	780 J	412 J
Z3WC-2014-07		1,450 J	4,440 J	3,390 J	84.6 J	133 J	89.8 J	16.8 J	711 J	5,090 J	3,540 J	989 J	6,260 J	424 J	105 J	454 J	231 J
Z3WC-2014-08		783 J	2,930 J	2,110 J	37.7 J	137 J	44.9 J	10.4 J	559 J	3,960 J	2,670 J	740 J	5,380 J	289 J	83.0 J	276 J	159 J
Z3WC-2014-09		600 J	2,270 J	1,630 J	29.2 J	115 J	41.8 J	10.2 J	426 J	2,930 J	1,900 J	515 J	3,980 J	197 J	59.6 J	191 J	127 J
Z3WC-2014-10		1,160 J	4,700 J	3,210 J	56.4 J	215 J	77.0 J	18.9 J	932 J	6,670 J	4,200 J	1,200 J	9,080 J	459 J	134 J	454 J	274 J
Z3WC-2014-11		700 J	3,050 J	2,310 J	43.0 J	133 J	68.7 J	9.49 J	511 J	3,670 J	2,470 J	667 J	4,550 J	290 J	81.2 J	291 J	171 J
Z3WC-2014-12		1,440 J	5,620 J	3,750 J	91.5 J	202 J	109 J	12.6 J	945 J	6,950 J	4,280 J	1,260 J	8,360 J	548 J	151 J	592 J	285 J
Z3WC-2014-13		3,780 J	13,500 J	9,780 J	247 J	413 J	274 J	33.5 J	2,150 J	16,000 J	10,000 J	2,770 J	17,200 J	1,360 J	350 J	1,520 J	666 J
Z3WC-2014-14		1,330 J	5,910 J	3,650 J	73.6 J	250 J	110 J	16.3 J	1,070 J	7,580 J	4,440 J	1,270 J	9,430 J	556 J	168 J	566 J	311 J
Z3WC-2014-15		645 J	2,330 J	1,870 J	36.5 J	93.1 J	51.0 J	6.26 J	389 J	2,790 J	1,880 J	502 J	3,310 J	233 J	61.4 J	241 J	127 J
Z3WC-2014-16		1,510 J	5,090 J	4,780 J	103 J	190 J	119 J	19.5 J	803 J	5,820 J	3,410 J	945 J	6,410 J	460 J	114 J	513 J	246 J
Z3WC-2014-17		276 J	1,120 J	911 J	14.6 J	49.2 J	23.3 J	3.69 J	197 J	1,460 J	920 J	243 J	1,680 J	110 J	30.9 J	119 J	60.2 J
Z3WC-2014-18		1,410 J	5,050 J	3,890 J	90.7 J	140 J	107 J	12.3 J	690 J	5,150 J	3,120 J	977 J	6,000 J	426 J	103 J	482 J	215 J
Z3WC-2014-19		191 J	706 J	598 J	9.20 J	33.4 J	15.5 J	2.51 J	145 J	985 J	663 J	176 J	1,160 J	75.2 J	20.9 J	78.0 J	43.6 J
Z3WC-2014-20		389 J	1,470 J	991 J	21.6 J	59.4 J	22.8 J	3.38 J	321 J	2,380 J	1,260 J	404 J	2,820 J	177 J	48.1 J	174 J	70.8 J
Z3WC-2014-21		1,160 J	4,530 J	2,700 J	65.7 J	172 J	73.8 J	10.9 J	815 J	5,980 J	3,080 J	930 J	7,750 J	470 J	126 J	479 J	221 J
Z3WC-2014-22		780 J	3,050 J	2,190 J	42.4 J	119 J	57.0 J	9.03 J	530 J	3,920 J	2,530 J	709 J	4,880 J	299 J	82.5 J	305 J	167 J

Table 7 - Zone 3 High Resolution PCBs in Fish
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Z3WC-2014-23	734 J	2,900 J	1,870 J	38.3 J	123 J	70.0 J	9.64 J	507 J	3,650 J	2,050 J	597 J	4,710 J	265 J	77.0 J	261 J	155 J
Z3WC-2014-24	647 J	2,410 J	1,820 J	35.0 J	92.4 J	49.5 J	7.03 J	424 J	3,060 J	1,950 J	548 J	3,560 J	237 J	62.2 J	247 J	128 J
Z3WC-2014-25	1,390 J	5,260 J	3,410 J	84.6 J	164 J	94.4 J	16.4 J	926 J	6,880 J	3,790 J	1,190 J	8,730 J	552 J	140 J	598 J	265 J
Z3WC-2014-26	534 J	1,970 J	1,630 J	27.7 J	91.4 J	47.6 J	6.14 J	339 J	2,370 J	1,670 J	447 J	2,810 J	189 J	50.6 J	186 J	110 J
Z3WC-2014-27	804 J	2,780 J	2,280 J	47.7 J	101 J	61.0 J	7.76 J	485 J	3,510 J	2,330 J	648 J	4,280 J	285 J	73.4 J	299 J	147 J
Z3WC-2014-28	870 J	3,450 J	2,210 J	45.0 J	146 J	74.5 J	10.8 J	679 J	4,710 J	2,770 J	796 J	5,990 J	347 J	98.3 J	333 J	206 J
Z3WC-2014-29	539 J	2,050 J	1,510 J	27.3 J	91.0 J	40.6 J	6.73 J	424 J	2,980 J	1,780 J	479 J	3,570 J	237 J	63.7 J	232 J	130 J
Z3WC-2014-30	720 J	2,870 J	2,000 J	40.7 J	126 J	57.9 J	9.10 J	552 J	4,040 J	2,430 J	651 J	5,060 J	294 J	82.8 J	294 J	173 J

Abbreviations

EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
PCB - polychlorinated biphenyl
QCSR - Quality Control Summary Report
ug/kg - micrograms per kilogram

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).
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- * Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
U - not detected
UJ - not detected at an estimated detection limit

Table 7 - Zone 3 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Zone 3															
Z3BSB-2014-01	1.10	< 0.352 U	84.7	79.3	244	328	71.9	4.45	53.2	15.6	76.9	13.3	41.7	27.9	4,220
Z3BSB-2014-02	1.23	< 0.276 U	116	49.2	330	380	92.6	6.02	75.1	23.4	108	15.8	62.7	44.5	4,190
Z3BSB-2014-03	6.30	0.521	876	413	2,310 J	2,580	716	36.8	472	152	745	101	340	181	34,600
Z3BSB-2014-04	5.17 J	0.325 J	529 J	342 J	1,490 J	1,640 J	470 J	22.8 J	286 J	102 J	476 J	69.9 J	204 J	91.7 J	22,900
Z3BSB-2014-05	3.73	0.635	954	345	2,770 J	2,420	679	37.7	606	173	848	100	395	191	38,500
Z3BSB-2014-06	0.761	0.193 J	184	94.3	543	500	122	7.78	123	29.5	157	17.7	87.7	64.8	7,740
Z3BSB-2014-07	0.543	< 0.102 U	167	92.7	500	507	123	6.71	123	26.6	176	17.3	93.1	51.1	7,620
Z3BSB-2014-08	3.17	0.548	669	282	1,910	1,920	522	26.6	339	107	553	70.9	223	111	28,400
Z3BSB-2014-09	0.592	< 0.0549 U	151	91.3	441	406	125	5.91	124	34.2	162	21.8	92.5	51.2	5,560
Z3BSB-2014-10	0.741	< 0.115 U	223	75.4	709	794	184	9.96	149	42.3	215	21.1	92.4	52.8	9,720
Z3BSB-2014-11	1.61	0.357 J	533	281	1,490	1,350	397	20.0	328	92.1	485	50.7	181	86.8	21,200
Z3BSB-2014-12	2.44	0.413 J	639	325	1,800	1,590	425	26.2	372	106	508	59.4	214	117	25,400
Z3BSB-2014-13	0.478 J	0.114 J	121	61.5	370	326	67.5	5.66	82.1	15.8	91.2	10.0	52.0	36.8	4,890
Z3BSB-2014-14	1.01	0.206 J	290	128	848	773	191	13.1	180	42.3	221	24.3	103	56.5	11,100
Z3WC-2014-01	8.92 J	0.471 J	961 J	858 J	2,410 J	3,090 J	762 J	27.8 J	495 J	193 J	903 J	117 J	432 J	199 J	55,600
Z3WC-2014-02	9.12 J	0.246 J	1,120 J	917 J	3,160 J	3,420 J	985 J	23.9 J	593 J	243 J	1,090 J	150 J	530 J	273 J	61,000
Z3WC-2014-03	4.36 J	0.300 J	558 J	451 J	1,470 J	1,600 J	448 J	15.5 J	307 J	121 J	544 J	73.5 J	268 J	150 J	30,000
Z3WC-2014-04	15.9 J	< 2.00 UJ	2,170 J	1,460 J	5,850 J	6,120 J	1,890 J	41.3 J	1,250 J	497 J	2,420 J	299 J	1,030 J	407 J	102,000
Z3WC-2014-05	6.55 J	< 0.444 UJ	625 J	476 J	1,620 J	1,830 J	532 J	16.5 J	320 J	124 J	618 J	84.1 J	264 J	135 J	35,800
Z3WC-2014-06	14.2 J	0.547 J	1,700 J	1,360 J	4,780 J	5,270 J	1,510 J	46.4 J	872 J	350 J	1,780 J	232 J	765 J	398 J	90,700
Z3WC-2014-07	4.25 J	0.385 J	976 J	756 J	2,700 J	2,290 J	757 J	28.4 J	499 J	197 J	842 J	101 J	265 J	168 J	57,100
Z3WC-2014-08	3.46 J	0.344 J	751 J	627 J	2,000 J	2,360 J	607 J	19.6 J	494 J	207 J	986 J	108 J	492 J	274 J	41,000
Z3WC-2014-09	2.98 J	0.359 J	472 J	446 J	1,090 J	1,450 J	343 J	15.4 J	234 J	101 J	412 J	46.4 J	154 J	73.5 J	29,700
Z3WC-2014-10	5.72 J	0.756 J	1,140 J	1,040 J	3,110 J	3,600 J	911 J	33.9 J	681 J	261 J	1,290 J	157 J	675 J	351 J	62,200
Z3WC-2014-11	6.53 J	0.337 J	691 J	547 J	1,850 J	1,840 J	534 J	22.3 J	398 J	175 J	695 J	88.6 J	292 J	173 J	39,400
Z3WC-2014-12	10.7 J	0.349 J	1,220 J	958 J	3,280 J	3,080 J	941 J	29.2 J	606 J	267 J	1,130 J	140 J	453 J	255 J	66,600
Z3WC-2014-13	22.3 J	0.570 J	2,740 J	2,030 J	7,370 J	6,590 J	2,090 J	64.8 J	1,310 J	552 J	2,250 J	309 J	853 J	429 J	164,000
Z3WC-2014-14	13.1 J	0.560 J	1,220 J	963 J	2,960 J	3,570 J	930 J	32.7 J	614 J	255 J	1,040 J	140 J	435 J	211 J	70,600
Z3WC-2014-15	3.68 J	0.205 J	561 J	450 J	1,500 J	1,600 J	473 J	16.2 J	333 J	128 J	578 J	79.2 J	318 J	184 J	30,700
Z3WC-2014-16	7.09 J	0.677 J	1,090 J	801 J	2,800 J	3,000 J	882 J	34.0 J	507 J	204 J	990 J	112 J	383 J	156 J	76,800
Z3WC-2014-17	2.05 J	0.0992 J	252 J	212 J	678 J	844 J	234 J	8.72 J	141 J	56.2 J	252 J	34.6 J	141 J	84.1 J	14,900
Z3WC-2014-18	6.39 J	0.249 J	977 J	666 J	2,680 J	2,610 J	815 J	27.3 J	480 J	190 J	913 J	105 J	353 J	167 J	62,800
Z3WC-2014-19	1.46 J	0.116 J	180 J	159 J	485 J	536 J	148 J	5.95 J	124 J	42.8 J	213 J	30.3 J	125 J	66.5 J	9,980
Z3WC-2014-20	3.16 J	0.0900 J	476 J	366 J	1,330 J	1,570 J	418 J	8.31 J	303 J	135 J	623 J	70.3 J	327 J	178 J	21,200
Z3WC-2014-21	8.57 J	0.277 J	1,130 J	787 J	3,090 J	3,170 J	965 J	21.6 J	689 J	292 J	1,120 J	144 J	556 J	291 J	54,900
Z3WC-2014-22	5.43 J	0.246 J	710 J	574 J	1,840 J	1,950 J	554 J	19.7 J	415 J	150 J	687 J	96.1 J	353 J	208 J	38,700
Z3WC-2014-23	5.71 J	0.353 J	573 J	494 J	1,350 J	1,890 J	459 J	17.5 J	316 J	124 J	530 J	65.2 J	234 J	113 J	35,900
Z3WC-2014-24	3.80 J	0.171 J	568 J	448 J	1,540 J	1,560 J	470 J	16.6 J	361 J	133 J	601 J	77.6 J	289 J	171 J	31,400

Table 7 - Zone 3 High Resolution PCBs in Fish
2017 MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Collection area/ Sample ID PCB#	168	169*	170	177	180	187	183	189*	194	195	203	201	206	209	Total PCBs (ND = EDL)
Zone 3															
Z3WC-2014-25	8.49 J	0.368 J	1,320 J	865 J	3,580 J	3,540 J	1,090 J	20.6 J	697 J	290 J	1,210 J	138 J	550 J	230 J	64,700
Z3WC-2014-26	3.20 J	0.214 J	419 J	369 J	1,130 J	1,240 J	356 J	14.6 J	253 J	104 J	424 J	59.2 J	205 J	122 J	26,000
Z3WC-2014-27	5.21 J	0.163 J	672 J	534 J	1,830 J	1,820 J	543 J	16.4 J	435 J	177 J	697 J	93.8 J	341 J	196 J	37,200
Z3WC-2014-28	6.68 J	0.356 J	775 J	651 J	1,950 J	2,380 J	611 J	23.2 J	400 J	168 J	696 J	89.2 J	308 J	166 J	43,900
Z3WC-2014-29	4.28 J	0.274 J	508 J	443 J	1,330 J	1,560 J	419 J	17.0 J	299 J	118 J	522 J	73.3 J	317 J	167 J	27,700
Z3WC-2014-30	6.01 J	0.233 J	700 J	622 J	1,780 J	2,240 J	565 J	20.4 J	403 J	165 J	651 J	83.9 J	315 J	161 J	38,100
IROD RAO (ingestion) [ng/kg]															70,000
OEHHA FCG (cancer effects) [ng/kg]															3,600
OEHHA FCG (noncancer effects) [ng/kg]															63,000

Abbreviations

EDL - estimated detection limit (sample specific)

FCG - fish contaminant goal

PCB - polychlorinated biphenyl

QCSR - Quality Control Summary Report

ug/kg - micrograms per kilogram

OEHHA - California EPA Office of Environmental Health Hazard Assessment

Total PCBs (ND = EDL) - Sum of 46 PCB congeners (Non-detects = Estimated Detection Limit)

Shaded cells show Total PCBs greater than the IROD Remedial Action Objective (RAO) for white croaker ingestion (in nanograms per kilogram [ng/kg])

Notes

1. Analytical results for target PCB compounds are in **picograms per gram (pg/g)**, equals nanograms per kilogram (ng/kg).

2. The data qualifiers are final; associated reason codes will be presented in the QCSR. Laboratory qualifiers are included in the laboratory reports (available upon request).

3. An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

* Dioxin-like PCB congener.

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated detection limit