

Table 2-6 – Test Methods for Fish

First MNR Report

Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)

Los Angeles County, California

<i>Target Analyte</i>	<i>Fish tissue project decision limit</i>	<i>PORL</i>	<i>Laboratory EDL</i>	<i>Laboratory LOQ</i>	<i>Congener co-elutes</i>
EPA Method 1699: DDTs by HRGC/HRMS					
p,p'-DDT	625	100	2.5:1 s/n	40	NA
o,p'-DDT	625	100	2.5:1 s/n	20	NA
p,p'-DDE	625	100	2.5:1 s/n	40	NA
o,p'-DDE	625	100	2.5:1 s/n	40	NA
p,p'-DDD	625	100	2.5:1 s/n	20	NA
o,p'-DDD	625	100	2.5:1 s/n	20	NA
p,p'-DDMU	625	200	2.5:1 s/n	200	NA
p,p'-DDNU	625	100	2.5:1 s/n	40	NA
EPA Method 1668C: PCBs by HRGC/HRMS (listed by congener number)					
8	NS	2.5	2.5:1 s/n	1.0	5
18	NS	2.5	2.5:1 s/n	0.5	
28	NS	2.5	2.5:1 s/n	0.5	
31	NS	2.5	2.5:1 s/n	0.5	
37	NS	2.5	2.5:1 s/n	0.5	
44	NS	2.5	2.5:1 s/n	0.5	
49	NS	2.5	2.5:1 s/n	1.0	43
52	NS	2.5	2.5:1 s/n	1.0	69
66	NS	2.5	2.5:1 s/n	1.0	76
70	NS	2.5	2.5:1 s/n	1.0	61
74	NS	2.5	2.5:1 s/n	0.5	
77	NS	2.5	2.5:1 s/n	0.5	
81	NS	2.5	2.5:1 s/n	0.5	
87	NS	2.5	2.5:1 s/n	1.5	117/125
99	NS	2.5	2.5:1 s/n	0.5	
101	NS	2.5	2.5:1 s/n	1.0	90
105	NS	2.5	2.5:1 s/n	0.5	
110	NS	2.5	2.5:1 s/n	0.5	
114	NS	2.5	2.5:1 s/n	0.5	
118	NS	2.5	2.5:1 s/n	1.0	106
119	NS	2.5	2.5:1 s/n	0.5	
123	NS	2.5	2.5:1 s/n	0.5	
126	NS	2.5	2.5:1 s/n	0.5	
128	NS	2.5	2.5:1 s/n	1.0	162
138	NS	2.5	2.5:1 s/n	1.5	163/164
149	NS	2.5	2.5:1 s/n	1.0	139
151	NS	2.5	2.5:1 s/n	0.5	
153	NS	2.5	2.5:1 s/n	0.5	
156	NS	2.5	2.5:1 s/n	0.5	
157	NS	2.5	2.5:1 s/n	0.5	
158	NS	2.5	2.5:1 s/n	1.0	160
167	NS	2.5	2.5:1 s/n	0.5	
168	NS	2.5	2.5:1 s/n	0.5	
169	NS	2.5	2.5:1 s/n	0.5	
170	NS	2.5	2.5:1 s/n	0.5	
177	NS	2.5	2.5:1 s/n	0.5	
180	NS	2.5	2.5:1 s/n	0.5	
183	NS	2.5	2.5:1 s/n	0.5	
187	NS	2.5	2.5:1 s/n	1.0	182

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189	NS	2.5	2.5:1 s/n	0.5	
194	NS	2.5	2.5:1 s/n	0.5	
195	NS	2.5	2.5:1 s/n	0.5	
201	NS	2.5	2.5:1 s/n	0.5	
203	NS	2.5	2.5:1 s/n	1.0	196
206	NS	2.5	2.5:1 s/n	0.5	
209	NS	2.5	2.5:1 s/n	0.5	
Percent Lipids by Bligh-Dyer Extraction and Gravimetry					
Lipids	NS	0.01%	0.001g	0.002g	NA

Abbreviations

AWQC – Ambient water quality criteria	NA – Not applicable
CAS – Chemical Abstracts Society	NS – No standard available
EDL – Estimated detection limit	PCBs – Polychlorinated biphenyls
HRGC – High resolution gas chromatography	PORL – Project objective reporting limit
HRMS – High resolution mass spectrometry	s/n – Signal-to-noise ratio
LOQ – Limit of quantitation	

Notes

1. Concentration units (for project decision limits, LOQs, and PORLs) are picograms per gram (pg/g), unless otherwise noted.
2. Explanations for EDLs, LOQs, and PORLs were presented in the *Final Quality Assurance Project Plan, Fish Sampling Program, Remedial Action – Monitored Natural Recovery Component, Palos Verdes Shelf, Los Angeles County, California* (Gilbane Federal, 2016).
3. PCB congeners 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189 are dioxin-like congeners (WHO, 2006).