

November 18, 2013

FAL Project ID: 8157

Mr. Mark Katchen
Phylmar Group
2342 Manning Avenue
Los Angeles, CA 90064

Dear Mr. Katchen,

Attached are the results for Frontier Analytical Laboratory project **8157**. This corresponds to your project number **365-001A** and project name **MHS/Cabrillo Monitoring**. Three wipe samples were received on 11/5/2013 in good condition. All three wipe samples were extracted and analyzed by EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). In addition, the total PCB concentration is listed in the upper right hand portion of page one of each sample data page. **Please note the results are reported in pg/sample.** The results have not been adjusted for the surface area of the wipe sample. The Phylmar Group requested a turnaround time of ten business days for project **8157**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photo. The attached results are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's NELAP Certificate number is 02113CA. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **8157**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **8157**

Received on: **11/05/2013**

Project Due: **11/20/2013**

Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
8157-001-SA	0	365-001A	HC20131102-W-11A	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8157-002-SA	0	365-001A	HC20131102-W-11B	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8157-003-SA	0	365-001A	HC20131102-W-11C	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014

EPA Modified Method 1668 PCBs



FAL ID: 8157-001-MB
Client ID: Method Blank
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013
Total Conc: 15.9

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.57			PCB-51	ND	6.14		
PCB-2	ND	2.08			PCB-52	ND	4.99	C	69
PCB-3	ND	1.67			PCB-53	ND	6.30		
PCB-4	ND	9.21			PCB-54	ND	3.41		
PCB-5	ND	8.65			PCB-55	ND	4.57		
PCB-6	ND	7.37			PCB-56	ND	4.00	C	60
PCB-7	ND	7.82			PCB-57	ND	4.43		
PCB-8	ND	8.40			PCB-58	ND	4.87		
PCB-9	ND	8.63			PCB-59	-	-	C042	42
PCB-10	ND	8.37			PCB-60	-	-	C056	56
PCB-11	15.9	-	J		PCB-61	ND	4.69	C	70
PCB-12	ND	8.51			PCB-62	ND	5.21		
PCB-13	ND	8.41			PCB-63	ND	4.48		
PCB-14	ND	8.21			PCB-64	-	-	C041	41/71/72
PCB-15	ND	6.22			PCB-65	ND	4.61		
PCB-16	ND	4.53			PCB-66	ND	4.23	C	76
PCB-17	ND	5.16			PCB-67	ND	4.32		
PCB-18	ND	5.78			PCB-68	ND	4.35		
PCB-19	ND	4.28			PCB-69	-	-	C052	52
PCB-20	ND	4.48	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	4.57			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.84			PCB-73	ND	5.19		
PCB-24	ND	4.10			PCB-74	ND	3.28		
PCB-25	ND	4.37			PCB-75	-	-	C048	48
PCB-26	ND	4.55			PCB-76	-	-	C066	66
PCB-27	ND	3.73			PCB-77	ND	3.38		
PCB-28	ND	4.16			PCB-78	ND	4.21		
PCB-29	ND	4.51			PCB-79	ND	4.04		
PCB-30	ND	3.71			PCB-80	ND	3.77		
PCB-31	ND	4.44			PCB-81	ND	3.79		
PCB-32	ND	3.77			PCB-82	ND	9.65		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.89	C	112
PCB-34	ND	4.51			PCB-84	ND	7.54	C	92
PCB-35	ND	4.62			PCB-85	ND	6.67	C	116
PCB-36	ND	4.55			PCB-86	ND	6.81		
PCB-37	ND	3.32			PCB-87	ND	5.92	C	117/125
PCB-38	ND	4.62			PCB-88	ND	8.49	C	91
PCB-39	ND	4.75			PCB-89	ND	8.37		
PCB-40	ND	8.06			PCB-90	ND	7.21	C	101
PCB-41	ND	4.70	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	5.11	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.30	C	49	PCB-93	ND	8.84		
PCB-44	ND	5.38			PCB-94	ND	9.57		
PCB-45	ND	6.81			PCB-95	ND	8.22		
PCB-46	ND	7.22			PCB-96	ND	6.01		
PCB-47	ND	5.58			PCB-97	ND	7.60		
PCB-48	ND	5.04	C	75	PCB-98	ND	6.84	C	102
PCB-49	-	-	C043	43	PCB-99	ND	7.20		
PCB-50	ND	5.83			PCB-100	ND	7.89		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-001-MB
Client ID: Method Blank
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	6.79		
PCB-102	-	-	C098	98	PCB-152	ND	5.38		
PCB-103	ND	7.28			PCB-153	ND	5.78		
PCB-104	ND	4.39			PCB-154	ND	6.11		
PCB-105	ND	7.46			PCB-155	ND	3.97		
PCB-106	ND	8.22	C	118	PCB-156	ND	5.56		
PCB-107	ND	8.22	C	108	PCB-157	ND	5.82		
PCB-108	-	-	C107	107	PCB-158	ND	5.15	C	160
PCB-109	ND	6.24			PCB-159	ND	4.93		
PCB-110	ND	4.35			PCB-160	-	-	C158	158
PCB-111	ND	5.39	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.93			PCB-163	-	-	C138	138/164
PCB-114	ND	8.20			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.28		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.30		
PCB-118	-	-	C106	106	PCB-168	ND	5.43		
PCB-119	ND	5.39			PCB-169	ND	3.74		
PCB-120	ND	5.07			PCB-170	ND	8.17		
PCB-121	ND	6.61			PCB-171	ND	7.10		
PCB-122	ND	8.44			PCB-172	ND	7.59		
PCB-123	ND	8.56			PCB-173	ND	8.41		
PCB-124	ND	7.89			PCB-174	ND	7.56		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.88		
PCB-126	ND	6.12			PCB-176	ND	5.03		
PCB-127	ND	8.14			PCB-177	ND	7.88		
PCB-128	ND	6.52	C	162	PCB-178	ND	7.17		
PCB-129	ND	8.00			PCB-179	ND	4.91		
PCB-130	ND	8.42			PCB-180	ND	6.71		
PCB-131	ND	7.17	C	133	PCB-181	ND	7.05		
PCB-132	ND	6.08	C	161	PCB-182	ND	6.53	C	187
PCB-133	-	-	C131	131	PCB-183	ND	6.44		
PCB-134	ND	7.18	C	143	PCB-184	ND	5.06		
PCB-135	ND	7.53			PCB-185	ND	7.39		
PCB-136	ND	5.77			PCB-186	ND	5.40		
PCB-137	ND	7.03			PCB-187	-	-	C182	182
PCB-138	ND	4.87	C	163/164	PCB-188	ND	4.24		
PCB-139	ND	6.73	C	149	PCB-189	ND	3.95		
PCB-140	ND	6.50			PCB-190	ND	6.01		
PCB-141	ND	6.72			PCB-191	ND	5.43		
PCB-142	ND	7.64			PCB-192	ND	6.26		
PCB-143	-	-	C134	134	PCB-193	ND	5.41		
PCB-144	ND	6.45			PCB-194	ND	6.63		
PCB-145	ND	5.72			PCB-195	ND	7.77		
PCB-146	ND	5.77	C	165	PCB-196	ND	7.83	C	203
PCB-147	ND	6.30			PCB-197	ND	5.84		
PCB-148	ND	6.60			PCB-198	ND	8.18		
PCB-149	-	-	C139	139	PCB-199	ND	9.35		
PCB-150	ND	5.63			PCB-200	ND	5.69		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-001-MB
Client ID: Method Blank
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.69		
PCB-202	ND	4.49		
PCB-203	-	-	C196	196
PCB-204	ND	5.68		
PCB-205	ND	3.96		
PCB-206	ND	7.89		
PCB-207	ND	7.99		
PCB-208	ND	5.55		
PCB-209	ND	4.52		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	101	5.00 - 145	
13C-PCB-3	96.7	5.00 - 145	
13C-PCB-4	105	5.00 - 145	
13C-PCB-15	104	5.00 - 145	
13C-PCB-19	104	5.00 - 145	
13C-PCB-37	99.5	5.00 - 145	
13C-PCB-54	108	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	101	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	107	10.0 - 145	
13C-PCB-123	107	10.0 - 145	
13C-PCB-126	101	10.0 - 145	
13C-PCB-155	104	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	99.7	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	101	10.0 - 145	
13C-PCB-205	107	10.0 - 145	
13C-PCB-206	105	10.0 - 145	
13C-PCB-208	107	10.0 - 145	
13C-PCB-209	104	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.2	5.00 - 145	
13C-PCB-111	93.2	10.0 - 145	
13C-PCB-178	92.7	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

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EPA Modified Method 1668
PCBs



FAL ID: 8157-001-OPR
Client ID: OPR
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: NA
Amount: 1.00 sample

ICal: 1668FAL4-10-24-13
GC Column: DB1
Units: ng/ml

Acquired: 11-11-2013

Compound	% Recovery	QC Limits	Qual	Internal Standards	% Recovery	QC Limits	Qual
PCB-1	105	60.0 - 135		13C-PCB-1	86.4	15.0 - 145	
PCB-3	103	60.0 - 135		13C-PCB-3	84.6	15.0 - 145	
PCB-4	103	60.0 - 135		13C-PCB-4	85.4	15.0 - 145	
PCB-15	106	60.0 - 135		13C-PCB-15	84.5	15.0 - 145	
PCB-19	104	60.0 - 135		13C-PCB-19	84.1	15.0 - 145	
PCB-37	106	60.0 - 135		13C-PCB-37	86.3	15.0 - 145	
PCB-54	97.4	60.0 - 135		13C-PCB-54	99.7	15.0 - 145	
PCB-77	105	60.0 - 135		13C-PCB-77	87.3	40.0 - 145	
PCB-81	111	60.0 - 135		13C-PCB-81	81.3	40.0 - 145	
PCB-104	103	60.0 - 135		13C-PCB-104	78.8	40.0 - 145	
PCB-105	101	60.0 - 135		13C-PCB-105	92.3	40.0 - 145	
PCB-114	106	60.0 - 135		13C-PCB-114	96.9	40.0 - 145	
PCB-118	107	60.0 - 135		13C-PCB-118	94.2	40.0 - 145	
PCB-123	105	60.0 - 135		13C-PCB-123	99.5	40.0 - 145	
PCB-126	106	60.0 - 135		13C-PCB-126	93.9	40.0 - 145	
PCB-155	113	60.0 - 135		13C-PCB-155	71.0	40.0 - 145	
PCB-156	111	60.0 - 135		13C-PCB-156	92.4	40.0 - 145	
PCB-157	114	60.0 - 135		13C-PCB-157	89.3	40.0 - 145	
PCB-167	112	60.0 - 135		13C-PCB-167	90.2	40.0 - 145	
PCB-169	109	60.0 - 135		13C-PCB-169	97.0	40.0 - 145	
PCB-188	112	60.0 - 135		13C-PCB-188	87.7	40.0 - 145	
PCB-189	115	60.0 - 135		13C-PCB-189	88.7	40.0 - 145	
PCB-202	112	60.0 - 135		13C-PCB-202	81.3	40.0 - 145	
PCB-205	122	60.0 - 135		13C-PCB-205	78.2	40.0 - 145	
PCB-206	107	60.0 - 135		13C-PCB-206	87.1	40.0 - 145	
PCB-208	105	60.0 - 135		13C-PCB-208	84.0	40.0 - 145	
PCB-209	120	60.0 - 135		13C-PCB-209	71.8	40.0 - 145	
				Cleanup Surrogate	% Recovery	QC limits	Qual
				13C-PCB-28	91.2	15.0 - 145	
				13C-PCB-111	77.7	40.0 - 145	
				13C-PCB-178	83.4	40.0 - 145	

Analyst: 

Date: 11/18/2013

Reviewed By: 

Date: 11/18/2013

EPA Modified Method 1668 PCBs



FAL ID: 8157-001-SA
Client ID: HC20131102-W-11A
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013
Total Conc: 681

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	11.4	-	J		PCB-51	ND	7.59		
PCB-2	ND	7.73			PCB-52	19.9	-	C,J	69
PCB-3	10.3	-	J		PCB-53	ND	7.79		
PCB-4	17.5	-	J		PCB-54	ND	4.22		
PCB-5	ND	8.39			PCB-55	ND	5.65		
PCB-6	12.6	-	J		PCB-56	ND	5.47	C	60
PCB-7	ND	7.59			PCB-57	ND	5.48		
PCB-8	52.1	-			PCB-58	ND	6.02		
PCB-9	ND	8.38			PCB-59	-	-	C042	42
PCB-10	ND	8.13			PCB-60	-	-	C056	56
PCB-11	248	-	B		PCB-61	16.9	-	C,J	70
PCB-12	ND	8.26			PCB-62	ND	6.44		
PCB-13	ND	8.17			PCB-63	ND	5.54		
PCB-14	ND	7.97			PCB-64	-	-	C041	41/71/72
PCB-15	10.5	-	J		PCB-65	ND	5.70		
PCB-16	ND	9.67			PCB-66	ND	5.22	C	76
PCB-17	14.9	-	J		PCB-67	ND	5.34		
PCB-18	36.0	-	J		PCB-68	ND	5.38		
PCB-19	ND	9.16			PCB-69	-	-	C052,J	52
PCB-20	19.0	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	10.2	-	J		PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.20			PCB-73	ND	6.42		
PCB-24	ND	8.77			PCB-74	ND	4.06		
PCB-25	ND	3.79			PCB-75	-	-	C048	48
PCB-26	ND	3.95			PCB-76	-	-	C066	66
PCB-27	ND	7.97			PCB-77	ND	4.59		
PCB-28	25.5	-	J		PCB-78	ND	5.75		
PCB-29	ND	3.92			PCB-79	ND	5.51		
PCB-30	ND	7.93			PCB-80	ND	4.66		
PCB-31	23.5	-	J		PCB-81	ND	5.20		
PCB-32	ND	9.67			PCB-82	ND	8.93		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	8.13	C	112
PCB-34	ND	3.91			PCB-84	ND	8.91	C	92
PCB-35	ND	4.00			PCB-85	ND	7.88	C	116
PCB-36	ND	3.95			PCB-86	ND	8.04		
PCB-37	ND	2.88			PCB-87	ND	6.99	C	117/125
PCB-38	ND	4.01			PCB-88	ND	6.31	C	91
PCB-39	ND	4.13			PCB-89	ND	9.88		
PCB-40	ND	9.96			PCB-90	33.7	-	C,J	101
PCB-41	ND	5.81	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	6.32	C	59	PCB-92	-	-	C084	84
PCB-43	ND	6.56	C	49	PCB-93	ND	6.57		
PCB-44	ND	6.65			PCB-94	ND	7.12		
PCB-45	ND	8.42			PCB-95	21.3	-	J	
PCB-46	ND	8.92			PCB-96	ND	4.47		
PCB-47	ND	6.89			PCB-97	ND	8.97		
PCB-48	ND	6.22	C	75	PCB-98	ND	5.09	C	102
PCB-49	-	-	C043	43	PCB-99	ND	8.51		
PCB-50	ND	7.20			PCB-100	ND	5.87		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-001-SA
Client ID: HC20131102-W-11A
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	5.28		
PCB-102	-	-	C098	98	PCB-152	ND	4.30		
PCB-103	ND	5.41			PCB-153	17.8	-	J	
PCB-104	ND	3.27			PCB-154	ND	4.87		
PCB-105	ND	5.99			PCB-155	ND	3.17		
PCB-106	26.3	-	C,J	118	PCB-156	ND	3.93		
PCB-107	ND	6.27	C	108	PCB-157	ND	4.68		
PCB-108	-	-	C107	107	PCB-158	ND	4.00	C	160
PCB-109	ND	7.37			PCB-159	ND	3.83		
PCB-110	21.5	-	J		PCB-160	-	-	C158	158
PCB-111	ND	6.36	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.00			PCB-163	-	-	C138,J	138/164
PCB-114	ND	6.20			PCB-164	-	-	C138,J	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.10		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.44		
PCB-118	-	-	C106,J	106	PCB-168	ND	4.22		
PCB-119	ND	6.36			PCB-169	ND	2.83		
PCB-120	ND	5.98			PCB-170	ND	5.75		
PCB-121	ND	4.91			PCB-171	ND	5.00		
PCB-122	ND	6.43			PCB-172	ND	5.34		
PCB-123	ND	6.05			PCB-173	ND	5.92		
PCB-124	ND	6.01			PCB-174	ND	5.32		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.84		
PCB-126	ND	5.02			PCB-176	ND	3.54		
PCB-127	ND	6.20			PCB-177	ND	5.55		
PCB-128	ND	5.06	C	162	PCB-178	ND	5.05		
PCB-129	ND	6.21			PCB-179	ND	3.46		
PCB-130	ND	6.54			PCB-180	ND	4.73		
PCB-131	ND	5.57	C	133	PCB-181	ND	4.97		
PCB-132	ND	4.72	C	161	PCB-182	ND	4.60	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.53		
PCB-134	ND	5.57	C	143	PCB-184	ND	3.56		
PCB-135	ND	5.85			PCB-185	ND	5.20		
PCB-136	ND	4.61			PCB-186	ND	3.80		
PCB-137	ND	5.46			PCB-187	-	-	C182	182
PCB-138	16.9	-	C,J	163/164	PCB-188	ND	3.11		
PCB-139	15.5	-	C,J	149	PCB-189	ND	2.64		
PCB-140	ND	5.05			PCB-190	ND	4.23		
PCB-141	ND	5.22			PCB-191	ND	3.82		
PCB-142	ND	5.94			PCB-192	ND	4.41		
PCB-143	-	-	C134	134	PCB-193	ND	3.81		
PCB-144	ND	5.01			PCB-194	ND	4.19		
PCB-145	ND	4.56			PCB-195	ND	4.92		
PCB-146	ND	4.48	C	165	PCB-196	ND	7.66	C	203
PCB-147	ND	4.89			PCB-197	ND	5.71		
PCB-148	ND	5.26			PCB-198	ND	8.00		
PCB-149	-	-	C139,J	139	PCB-199	ND	9.15		
PCB-150	ND	4.49			PCB-200	ND	5.57		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-001-SA
Client ID: HC20131102-W-11A
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.57		
PCB-202	ND	4.39		
PCB-203	-	-	C196	196
PCB-204	ND	5.55		
PCB-205	ND	2.51		
PCB-206	ND	4.31		
PCB-207	ND	4.43		
PCB-208	ND	3.11		
PCB-209	ND	4.27		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.1	5.00 - 145	
13C-PCB-3	89.5	5.00 - 145	
13C-PCB-4	95.5	5.00 - 145	
13C-PCB-15	96.2	5.00 - 145	
13C-PCB-19	95.2	5.00 - 145	
13C-PCB-37	93.9	5.00 - 145	
13C-PCB-54	95.3	5.00 - 145	
13C-PCB-77	96.8	10.0 - 145	
13C-PCB-81	96.6	10.0 - 145	
13C-PCB-104	92.8	10.0 - 145	
13C-PCB-105	96.1	10.0 - 145	
13C-PCB-114	97.2	10.0 - 145	
13C-PCB-118	98.4	10.0 - 145	
13C-PCB-123	98.3	10.0 - 145	
13C-PCB-126	100	10.0 - 145	
13C-PCB-155	91.5	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	108	10.0 - 145	
13C-PCB-188	89.9	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	93.8	10.0 - 145	
13C-PCB-205	98.5	10.0 - 145	
13C-PCB-206	97.1	10.0 - 145	
13C-PCB-208	95.1	10.0 - 145	
13C-PCB-209	95.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.7	5.00 - 145	
13C-PCB-111	93.0	10.0 - 145	
13C-PCB-178	91.3	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

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EPA Modified Method 1668 PCBs



FAL ID: 8157-002-SA
Client ID: HC20131102-W-11B
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013
Total Conc: 376

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.05			PCB-51	ND	4.92		
PCB-2	ND	8.09			PCB-52	13.6	-	C,J	69
PCB-3	ND	6.51			PCB-53	ND	5.05		
PCB-4	ND	9.74			PCB-54	ND	2.73		
PCB-5	ND	9.25			PCB-55	ND	3.66		
PCB-6	ND	7.89			PCB-56	ND	3.35	C	60
PCB-7	ND	8.37			PCB-57	ND	3.55		
PCB-8	38.7	-	J		PCB-58	ND	3.90		
PCB-9	ND	9.24			PCB-59	-	-	C042	42
PCB-10	ND	8.96			PCB-60	-	-	C056	56
PCB-11	117	-	B		PCB-61	12.8	-	C,J	70
PCB-12	ND	9.11			PCB-62	ND	4.17		
PCB-13	ND	9.00			PCB-63	ND	3.59		
PCB-14	ND	8.79			PCB-64	-	-	C041	41/71/72
PCB-15	ND	6.76			PCB-65	ND	3.69		
PCB-16	ND	6.02			PCB-66	ND	3.39	C	76
PCB-17	ND	6.84			PCB-67	ND	3.46		
PCB-18	22.4	-	J		PCB-68	ND	3.09		
PCB-19	ND	5.70			PCB-69	-	-	C052,J	52
PCB-20	13.0	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	3.46			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.66			PCB-73	ND	4.16		
PCB-24	ND	5.46			PCB-74	ND	2.63		
PCB-25	ND	3.31			PCB-75	-	-	C048	48
PCB-26	ND	3.45			PCB-76	-	-	C066	66
PCB-27	ND	4.96			PCB-77	ND	2.69		
PCB-28	18.0	-	J		PCB-78	ND	3.53		
PCB-29	ND	3.41			PCB-79	ND	3.39		
PCB-30	ND	4.93			PCB-80	ND	3.02		
PCB-31	15.0	-	J		PCB-81	ND	3.36		
PCB-32	ND	5.01			PCB-82	ND	9.88		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	7.03	C	112
PCB-34	ND	3.41			PCB-84	ND	7.70	C	92
PCB-35	ND	3.49			PCB-85	ND	6.81	C	116
PCB-36	ND	3.45			PCB-86	ND	6.95		
PCB-37	ND	2.51			PCB-87	ND	6.05	C	117/125
PCB-38	ND	3.49			PCB-88	ND	6.20	C	91
PCB-39	ND	3.60			PCB-89	ND	8.55		
PCB-40	ND	6.45			PCB-90	27.4	-	C,J	101
PCB-41	ND	3.76	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.10	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.25	C	49	PCB-93	ND	6.46		
PCB-44	ND	4.31			PCB-94	ND	6.99		
PCB-45	ND	5.46			PCB-95	15.5	-	J	
PCB-46	ND	5.78			PCB-96	ND	4.39		
PCB-47	ND	4.47			PCB-97	ND	7.76		
PCB-48	ND	4.03	C	75	PCB-98	ND	5.00	C	102
PCB-49	-	-	C043	43	PCB-99	ND	7.36		
PCB-50	ND	4.67			PCB-100	ND	5.77		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-002-SA
Client ID: HC20131102-W-11B
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	5.29		
PCB-102	-	-	C098	98	PCB-152	ND	3.28		
PCB-103	ND	5.32			PCB-153	16.3	-	J	
PCB-104	ND	3.21			PCB-154	ND	3.72		
PCB-105	ND	3.54			PCB-155	ND	2.42		
PCB-106	19.1	-	C,J	118	PCB-156	ND	4.30		
PCB-107	ND	4.03	C	108	PCB-157	ND	4.39		
PCB-108	-	-	C107	107	PCB-158	ND	4.00	C	160
PCB-109	ND	6.37			PCB-159	ND	3.84		
PCB-110	19.3	-	J		PCB-160	-	-	C158	158
PCB-111	ND	5.50	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.06			PCB-163	-	-	C138,J	138/164
PCB-114	ND	3.76			PCB-164	-	-	C138,J	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.11		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.18		
PCB-118	-	-	C106,J	106	PCB-168	ND	4.23		
PCB-119	ND	5.50			PCB-169	ND	2.99		
PCB-120	ND	5.17			PCB-170	ND	4.53		
PCB-121	ND	4.83			PCB-171	ND	3.94		
PCB-122	ND	4.14			PCB-172	ND	4.21		
PCB-123	ND	4.09			PCB-173	ND	4.66		
PCB-124	ND	3.87			PCB-174	ND	4.19		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.81		
PCB-126	ND	2.51			PCB-176	ND	2.79		
PCB-127	ND	3.99			PCB-177	ND	4.37		
PCB-128	ND	5.07	C	162	PCB-178	ND	3.98		
PCB-129	ND	6.22			PCB-179	ND	2.72		
PCB-130	ND	6.55			PCB-180	ND	3.72		
PCB-131	ND	5.58	C	133	PCB-181	ND	3.91		
PCB-132	ND	4.73	C	161	PCB-182	ND	3.62	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.57		
PCB-134	ND	5.59	C	143	PCB-184	ND	2.80		
PCB-135	ND	5.86			PCB-185	ND	4.10		
PCB-136	ND	3.52			PCB-186	ND	2.99		
PCB-137	ND	5.47			PCB-187	-	-	C182	182
PCB-138	15.2	-	C,J	163/164	PCB-188	ND	2.55		
PCB-139	13.0	-	C,J	149	PCB-189	ND	1.98		
PCB-140	ND	5.06			PCB-190	ND	3.33		
PCB-141	ND	5.23			PCB-191	ND	3.01		
PCB-142	ND	5.95			PCB-192	ND	3.47		
PCB-143	-	-	C134	134	PCB-193	ND	3.00		
PCB-144	ND	5.02			PCB-194	ND	3.20		
PCB-145	ND	3.49			PCB-195	ND	3.75		
PCB-146	ND	4.49	C	165	PCB-196	ND	5.32	C	203
PCB-147	ND	4.90			PCB-197	ND	3.97		
PCB-148	ND	4.02			PCB-198	ND	5.56		
PCB-149	-	-	C139,J	139	PCB-199	ND	6.35		
PCB-150	ND	3.43			PCB-200	ND	3.86		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-002-SA
Client ID: HC20131102-W-11B
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.86		
PCB-202	ND	3.05		
PCB-203	-	-	C196	196
PCB-204	ND	3.86		
PCB-205	ND	1.91		
PCB-206	ND	4.50		
PCB-207	ND	4.51		
PCB-208	ND	3.09		
PCB-209	ND	3.28		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.2	5.00 - 145	
13C-PCB-3	89.5	5.00 - 145	
13C-PCB-4	95.0	5.00 - 145	
13C-PCB-15	97.6	5.00 - 145	
13C-PCB-19	95.7	5.00 - 145	
13C-PCB-37	95.8	5.00 - 145	
13C-PCB-54	100	5.00 - 145	
13C-PCB-77	95.1	10.0 - 145	
13C-PCB-81	95.9	10.0 - 145	
13C-PCB-104	95.2	10.0 - 145	
13C-PCB-105	96.1	10.0 - 145	
13C-PCB-114	96.4	10.0 - 145	
13C-PCB-118	91.8	10.0 - 145	
13C-PCB-123	92.8	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	97.7	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	91.0	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	92.7	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	98.8	10.0 - 145	
13C-PCB-208	97.9	10.0 - 145	
13C-PCB-209	97.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	97.4	5.00 - 145	
13C-PCB-111	94.1	10.0 - 145	
13C-PCB-178	94.2	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000012 of 000018

EPA Modified Method 1668 PCBs



FAL ID: 8157-003-SA
Client ID: HC20131102-W-11C
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013
Total Conc: 1330

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	13.0	-	J		PCB-51	ND	7.09		
PCB-2	ND	8.16			PCB-52	45.2	-	C	69
PCB-3	14.8	-	J		PCB-53	ND	7.27		
PCB-4	24.0	-	J		PCB-54	ND	3.94		
PCB-5	ND	8.49			PCB-55	ND	5.27		
PCB-6	23.5	-	J		PCB-56	17.7	-	C,J	60
PCB-7	ND	7.68			PCB-57	ND	5.11		
PCB-8	81.0	-			PCB-58	ND	5.62		
PCB-9	ND	8.47			PCB-59	-	-	C042,J	42
PCB-10	ND	8.22			PCB-60	-	-	C056,J	56
PCB-11	147	-	B		PCB-61	37.6	-	C,J	70
PCB-12	ND	8.35			PCB-62	ND	6.01		
PCB-13	ND	8.26			PCB-63	ND	5.17		
PCB-14	ND	8.06			PCB-64	-	-	C041,J	41/71/72
PCB-15	17.4	-	J		PCB-65	ND	5.32		
PCB-16	19.8	-	J		PCB-66	28.5	-	C,J	76
PCB-17	36.4	-	J		PCB-67	ND	4.98		
PCB-18	89.9	-			PCB-68	ND	5.02		
PCB-19	10.6	-	J		PCB-69	-	-	C052	52
PCB-20	53.0	-	C	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	26.4	-	J		PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	7.09			PCB-73	ND	5.99		
PCB-24	ND	4.08			PCB-74	12.9	-	J	
PCB-25	ND	6.41			PCB-75	-	-	C048,J	48
PCB-26	14.5	-	J		PCB-76	-	-	C066,J	66
PCB-27	ND	3.71			PCB-77	ND	2.38		
PCB-28	71.5	-			PCB-78	ND	3.05		
PCB-29	ND	6.62			PCB-79	ND	2.92		
PCB-30	ND	3.69			PCB-80	ND	4.35		
PCB-31	72.8	-			PCB-81	ND	2.83		
PCB-32	28.1	-	J		PCB-82	ND	9.93		
PCB-33	-	-	C020	20/21	PCB-83	ND	7.07	C	112
PCB-34	ND	6.61			PCB-84	14.9	-	C,J	92
PCB-35	ND	6.77			PCB-85	ND	6.85	C	116
PCB-36	ND	6.68			PCB-86	ND	6.99		
PCB-37	10.1	-	J		PCB-87	18.1	-	C,J	117/125
PCB-38	ND	6.77			PCB-88	ND	7.02	C	91
PCB-39	ND	6.97			PCB-89	ND	8.59		
PCB-40	ND	9.30			PCB-90	51.7	-	C	101
PCB-41	33.6	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	14.5	-	C,J	59	PCB-92	-	-	C084,J	84
PCB-43	29.4	-	C,J	49	PCB-93	ND	7.31		
PCB-44	28.1	-	J		PCB-94	ND	7.91		
PCB-45	ND	7.86			PCB-95	35.9	-	J	
PCB-46	ND	8.31			PCB-96	ND	4.97		
PCB-47	16.1	-	J		PCB-97	13.4	-	J	
PCB-48	11.5	-	C,J	75	PCB-98	ND	5.66	C	102
PCB-49	-	-	C043,J	43	PCB-99	37.6	-	J	
PCB-50	ND	6.72			PCB-100	ND	6.53		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-003-SA
Client ID: HC20131102-W-11C
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	5.55		
PCB-102	-	-	C098	98	PCB-152	ND	3.48		
PCB-103	ND	6.02			PCB-153	22.5	-	J	
PCB-104	ND	3.63			PCB-154	ND	3.95		
PCB-105	ND	7.38			PCB-155	ND	2.56		
PCB-106	33.3	-	C,J	118	PCB-156	ND	4.62		
PCB-107	ND	8.28	C	108	PCB-157	ND	4.61		
PCB-108	-	-	C107	107	PCB-158	ND	4.20	C	160
PCB-109	ND	6.40			PCB-159	ND	4.03		
PCB-110	33.3	-	J		PCB-160	-	-	C158	158
PCB-111	ND	5.53	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.09			PCB-163	-	-	C138,J	138/164
PCB-114	ND	7.53			PCB-164	-	-	C138,J	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.31		
PCB-117	-	-	C087,J	87/125	PCB-167	ND	4.21		
PCB-118	-	-	C106,J	106	PCB-168	ND	4.44		
PCB-119	ND	5.53			PCB-169	ND	3.19		
PCB-120	ND	5.20			PCB-170	ND	5.07		
PCB-121	ND	5.46			PCB-171	ND	4.41		
PCB-122	ND	8.48			PCB-172	ND	4.71		
PCB-123	ND	8.67			PCB-173	ND	5.22		
PCB-124	ND	7.94			PCB-174	ND	4.70		
PCB-125	-	-	C087,J	87/117	PCB-175	ND	4.27		
PCB-126	ND	5.50			PCB-176	ND	3.13		
PCB-127	ND	8.17			PCB-177	ND	4.90		
PCB-128	ND	5.33	C	162	PCB-178	ND	4.45		
PCB-129	ND	6.53			PCB-179	ND	3.05		
PCB-130	ND	6.88			PCB-180	ND	4.17		
PCB-131	ND	5.86	C	133	PCB-181	ND	4.38		
PCB-132	ND	4.96	C	161	PCB-182	ND	4.05	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.00		
PCB-134	ND	5.86	C	143	PCB-184	ND	3.14		
PCB-135	ND	6.15			PCB-185	ND	4.59		
PCB-136	ND	3.73			PCB-186	ND	3.35		
PCB-137	ND	5.74			PCB-187	-	-	C182	182
PCB-138	18.5	-	C,J	163/164	PCB-188	ND	2.80		
PCB-139	20.6	-	C,J	149	PCB-189	ND	2.27		
PCB-140	ND	5.31			PCB-190	ND	3.73		
PCB-141	ND	5.49			PCB-191	ND	3.37		
PCB-142	ND	6.24			PCB-192	ND	3.89		
PCB-143	-	-	C134	134	PCB-193	ND	3.36		
PCB-144	ND	5.27			PCB-194	ND	3.54		
PCB-145	ND	3.69			PCB-195	ND	4.15		
PCB-146	ND	4.72	C	165	PCB-196	ND	6.07	C	203
PCB-147	ND	5.14			PCB-197	ND	4.52		
PCB-148	ND	4.26			PCB-198	ND	6.34		
PCB-149	-	-	C139,J	139	PCB-199	ND	7.25		
PCB-150	ND	3.64			PCB-200	ND	4.41		

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EPA Modified Method 1668 PCBs



FAL ID: 8157-003-SA
Client ID: HC20131102-W-11C
Matrix: Wipe
Batch No: X2968

Date Extracted: 11-08-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-11-13
GC Column: DB1
Units: pg/sample

Acquired: 11-11-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.41		
PCB-202	ND	3.48		
PCB-203	-	-	C196	196
PCB-204	ND	4.40		
PCB-205	ND	2.11		
PCB-206	ND	5.54		
PCB-207	ND	5.65		
PCB-208	ND	3.92		
PCB-209	ND	3.95		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.1	5.00 - 145	
13C-PCB-3	92.0	5.00 - 145	
13C-PCB-4	93.3	5.00 - 145	
13C-PCB-15	99.2	5.00 - 145	
13C-PCB-19	97.7	5.00 - 145	
13C-PCB-37	92.3	5.00 - 145	
13C-PCB-54	99.8	5.00 - 145	
13C-PCB-77	94.7	10.0 - 145	
13C-PCB-81	97.4	10.0 - 145	
13C-PCB-104	96.6	10.0 - 145	
13C-PCB-105	94.7	10.0 - 145	
13C-PCB-114	97.3	10.0 - 145	
13C-PCB-118	95.0	10.0 - 145	
13C-PCB-123	95.9	10.0 - 145	
13C-PCB-126	97.2	10.0 - 145	
13C-PCB-155	95.6	10.0 - 145	
13C-PCB-156	98.5	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	105	10.0 - 145	
13C-PCB-188	89.8	10.0 - 145	
13C-PCB-189	105	10.0 - 145	
13C-PCB-202	92.5	10.0 - 145	
13C-PCB-205	95.6	10.0 - 145	
13C-PCB-206	98.1	10.0 - 145	
13C-PCB-208	94.6	10.0 - 145	
13C-PCB-209	98.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	92.1	5.00 - 145	
13C-PCB-111	93.7	10.0 - 145	
13C-PCB-178	88.4	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 8157
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page 3 of 3

CLIENT INFORMATION					INVOICE INFORMATION (if different from client info)					PROJECT INFORMATION							
Company Name: <u>Phylmar Group</u>					Company Name: <u>Same</u>					FAL Quote #: <u>2711A</u>							
Contact Name: <u>Mark Katchen</u>					Contact Name: _____					P.O. #: _____							
Address: <u>2342 Manning Ave., Los Angeles, CA 90064</u>					Address: _____					Project #: <u>365-001A</u>							
Phone: <u>310-474-3937</u> Fax: _____					Phone: _____ Fax: _____					Project Name: <u>MHS/Cabrino monitoring</u>							
Email: <u>mkatchen@phylmar.com</u>					Email: _____					TAT (business days): ☐ 15 ☒ 10 ☐ 5* ☐ 3* (✓ one)							
										* FAL must agree with price and RUSH TAT in writing.							
REPORT INFORMATION					REPORT DISTRIBUTION (email only is preferred)					ADDITIONAL INSTRUCTIONS							
Report Level: ☐ I/II ☐ III ☐ IV					☐ Hardcopy												
☐ EDD: ☐ FAL Basic ☐ Geotracker					☐ CD (.pdf including EDDs if requested)												
☐ Other: _____ ☐ Custom: Contact FAL					☒ Email (.pdf including EDDs if requested)												
☐ California State Drinking Water Form																	
System #: _____ Source #: _____																	
Sampler: _____ Employer: _____																	
	Sample ID	Date	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	**CONGENERS	**TEQ
		Collected														☐ 2,3,7,8-TCDD only	☐ 1998 WHO
																☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
																☐ PCDD/F (Cl ₄ -Cl ₈)	☐ Other
																Remarks	
1	HC20131102-W-11A	11/2/13		Wipe	1								✓			Blank	
2	↓ W-11B	↓		↓	↓								✓			Blank	
3	↓ W-11C	↓		↓	↓								✓			Blank	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.																	
Relinquished by: (Signature and Printed Name)						Date	Time	Received by: (Signature and Printed Name)						Date	Time		
SED - Steven Modtland						11/4/13	-	Kathy Zep KZep						11-5-13	1105		

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy - Report

Yellow Copy - Laboratory

Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **8157**

Client:	The Phylmar Group
Client Project ID:	365-001A
Date Received:	11/05/2013
Time Received:	11:05 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	3
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	523102461
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	



Frontier Analytical Laboratory
5172 Hillside Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

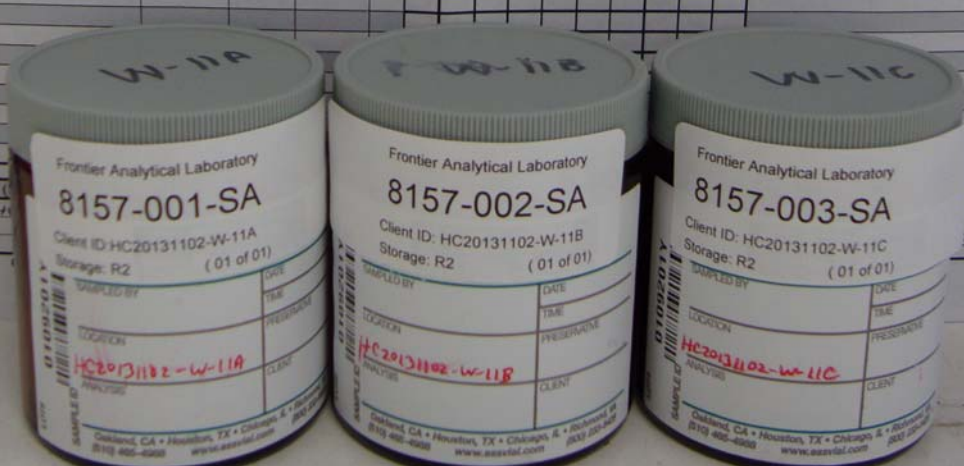
Laboratory Project No.: 8157
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page 3 of 3

CLIENT INFORMATION				INVOICE INFORMATION (if different from client info)				PROJECT INFORMATION									
Company Name: Phylmar Group				Company Name: Same				FAL Quote #: 2711A									
Contact Name: Mark Katchen				Contact Name:				P.O. #:									
Address: 2342 Manning Ave., Los Angeles, CA 90064				Address:				Project #: 365-001A									
Phone: 310-474-3837 Fax:				Phone:				Project Name: <u>MH3/Cabrillo monitoring</u>									
Email: mkatchen@phylmar.com				Email:				TAT (business days): ☐ 15 ☒ 10 ☐ 5* ☐ 3* (✓ one)									
								* FAL must agree with price and RUSH TAT in writing.									
REPORT INFORMATION				REPORT DISTRIBUTION (email only is preferred)				ADDITIONAL INSTRUCTIONS									
Report Level: ☐ I/II ☐ III ☐ IV				☐ Hardcopy													
☐ EDD: ☐ FAL Basic ☐ Geotracker				☐ CD (.pdf including EDDs if requested)													
☐ Other: ☐ Custom: Contact FAL				☒ Email (.pdf including EDDs if requested)													
☐ California State Drinking Water Form																	
System #: Source #:																	
Sampler: Employer:																	
Sample ID	Date	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 2323A	EPA 1668	FAL 15	Other	**CONGENERS	**TEQ	Remarks
1	HC20131102-W-11A	11/2/13	W-11A	1											☐ 2,3,7,8-TCDD only	☐ 1998 WHO	
2	W-11B		W-11B	1											☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO	Blank
3	W-11C		W-11C	1											☐ PCDD/F (Cl ₄ -Cl ₆)	☐ Other	Blank
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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13																	
14																	
15																	



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